

The logo for Supco, featuring the word "Supco" in a white, cursive script font, enclosed within a red and orange oval border. A registered trademark symbol (®) is located to the upper right of the oval.

Supco®

THE RIGHT CHOICE

**Worldwide Manufacturer
& Distributor of High Quality,
Innovative Replacement Parts**

Since 1945

The background of the entire page is a stylized globe with a grid of latitude and longitude lines. The globe is rendered in shades of blue and orange, with the continents appearing as dark orange shapes against the lighter blue background.

CATALOG
Edition 24, Volume 1



DIVISIONS



A Division of SUPCO®



BRANDS

**BULLET®
PIERCING
VALVE**



SUPER ⚡ BOOST



Data View®

AUTHORIZED MASTER DISTRIBUTOR



THERMODISC®



siccom®



About Us...

Founded in 1945 in the Bronx, NY by two naval engineers, Sealed Unit Parts Co., Inc (SUPCO) originated as a service company for refrigeration systems. These systems were “sealed”, so that, when service was needed, the repair was done invasively. The desire to overcome this method was the impetus for the development of the patented “Bullet” valve in the 1950’s.

As demand for the “Bullet” valve grew, Supco’s burgeoning manufacturing operation moved to Monmouth County, NJ. SUPCO set its roots deep in Monmouth County, NJ during the decade of the 1960’s. Another important development during that decade was a patent for utilizing “PTC” components as switches for control devices.

During the 1970’s, the utilization of PTC devices as switches led to the development of “The Original” two wire refrigeration and air conditioning hard starts. “Super Boosts” and “3 N 1” hard starts revolutionized the aftermarket’s method for installing hard starts on air conditioning and refrigeration systems.

The 1980’s brought with it an expansion into the test instrument market, with the addition of simple testing devices for critical parameters in refrigeration and cooling systems. The MFD10 capacitor tester and M500 compressor insulation tester laid the foundation for development of test instruments designed to make service professional’s tasks simple, with reliable results.

SUPCO developed the first electronic vacuum gauge in 1990. The VG60 removed the uncertainty of analog technology for the growing need to measure this key system characteristic. During the latter part of the decade, master distributor partnerships for product lines, such as Therm-o-Disc components, bolstered SUPCO’s position as a key supplier to HVAC and Appliance wholesale distributors.

As we entered a new millennium, continued strategic growth resulted in a need to expand existing facilities in NJ, and later, the establishment of manufacturing facilities abroad. Additional product development in hard starts and vacuum gauges was the catalyst for that growth. In 2007, SUPCO acquired Climate Technology Corporation (CTC), adding thermostats to a broadening product line.

Another decade brings continued product line expansion through in-house development, master distributor relationships and acquisition. This strengthens Supco’s position as a leader in the HVAC, Refrigeration and Appliance industries. Proof of that is the acquisition of A-1 Components and Camstat in September of 2013.



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SEALED UNIT PARTS CO., INC.

PO Box 21, 2230 Landmark Place • Allenwood, NJ 08720 USA
1-800-333-9125 • www.supco.com • orders@supco.com

AC Hard Starts

THE “TRUE ORIGINAL HARD START”

ULTRA SERIES

2-wire Mechanical Potential Relay Hard Start

- OEM Approved Technology
- Voltage Sensing
- Instant Re-Start
- Easy 2-wire Installation
- 170-277 VAC
- 330 VAC Start Capacitor
- 2 Year Warranty

PART NO.	APPLICATION	CAPACITOR SIZE	REPLACES Kickstart®
MPR5	1 to 3 hp	189-277µF	TO-5
MPR1	3.5 to 5 hp	270-324 µF	KS-1



3 SERIES

3-wire Mechanical Potential Relay Hard Start

- Voltage Sensing
- Instant Re-Start
- 35 Amp Relay Contacts
- 170-277 VAC
- 330 VAC Start Capacitor
- Includes EZ Snap Bracket for Quick Installation

PART NO.	APPLICATION	CAPACITOR SIZE	REPLACES 5-2-1®
3W1	1 – 3 hp	88 – 108 µF	CSRU1
3W2	3.5 – 4.5 hp	189 – 227 µF	CSRU2
3W3	4 – 5 hp	270 – 324 µF	CSRU3



SPP E CLASS SERIES

Electronic Potential Relay Technology

Economical Potential Relay, with the comfort of a backup safety.

- Electronic Potential Relay
- Backup Electronic Timing Circuit to Protect the Compressor
- Voltage Sensing
- Instant Re-Start
- Easy 2-wire Installation
- Can be used on PSC and CSIR Type Compressors
- 170-277 VAC (except SPP4E, 90-130 VAC)

PART NO.	APPLICATION	CAPACITOR SIZE
SPP4E	1/8-1 hp	88-106 µF
SPP5E	1/3-2 hp	43-52 µF
SPP6E	1/2 – 3 hp	88–106 µF
SPP7E	1 – 4 hp	130–156 µF
SPP8E	1 hp and up	189–227 µF
SPP9E	1 hp and up	233-280 µF
SPP10E	3 hp and up	270-324 µF



SPP SUPER BOOST SERIES

PTC Technology

The “Original” 2-wire Hard Start.

- Positive Temperature Coefficient Relay Technology (PTC)
- Field Proven Reliability
- Easy 2-wire Installation
- Most Economic
- 90-277 VAC

PART NO.	INCREASE IN TORQUE
SPP	250%
SPP5	300%
SPP6	500%
SPP7S	600%



*Kickstart® is a registered U.S. trademark of The Rectorseal Corporation.

*5-2-1® is a registered U.S. trademark of Five-Two-One, Inc.

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Relays

UNIVERSAL POTENTIAL RELAYS

APR5

Adjustable Potential Relay

- Adjustable, Voltage Sensitive Relay
- Set Pick-up Voltage
- Safety Time Out 1.0-1.5 Seconds
- Universal Mounting Bracket

APR5 / SUPR Common Specifications

Operating Voltage	110 – 270 VAC, Single Phase
Amperage	30 Amps
Motor Power Rating	up to 5 hp
Operating Position	Non-positional mounting.
Terminals	Screw or push-on.
Dimensions	1.75W x 2.25L x 1.50H



APR5



SUPR



SUPR

Universal Potential Relay

- Time Function Relay
- Start Time: 1.0-1.5 Seconds
- Universal Mounting Bracket

SEPR60

Universal 2 - Wire Potential Relay

- Voltage Sensitive Relay
- Instant Re-start
- Safety Time Delay
- Use With Any Size Suitable Start Capacitor

SEPR60 Specifications

Operating Voltage	208 – 277 VAC, Single Phase
Amperage	40 Amps
Motor Power Rating	1 hp - 10 hp
Mounting	Non Positional
Terminals	Qty 3, 1/4" Male Spade



90XX SERIES

Potential Relays

- Meets All Requirements of OEM Relays
- Universal Break-off Bracket
- 50/60 Cycle
- Contact Rating 35 Amp @ 277 VAC
- Non-positional

PART NO.	CONTINUOUS		PICK-UP		DROP MAX.
	COIL VOLTAGE		MIN.	MAX.	
9063	170		139	153	55
9064	395		260	275	120
9065	332		168	182	90
9066	395		215	225	120
9067	420		295	315	125
9068	502		325	345	135
9069	336		180	195	105
9070	332		285	305	77
9071	420		212	232	121



903X SERIES

General Purpose Switching Relays

- Double Pole-Double Throw (DPDT)

CONTACT RATINGS	POWER		PILOT	
	208/240V 120V 277V	6	208/240V 120V 277V	3
Full Load Amps	12	6	-	-
Resistive Amps*	15	15	3	3
Locked Rotor Amps	60	35	-	-
Horsepower	3/4	3/4	1/10	1/10

*0.75 Power Factor

PART NO.	COIL VOLTAGE	TERMINAL 1-2-3	TERMINAL 4-5-6	CROSS REFERENCE	
				ESSEX®/RBM®	HONEYWELL®
90340	24	power	power	90-340	R8222D1014
90341	120	power	power	90-341	R4222D1013
90342	208/240	power	power	90-342	R4222N1021



FAN RELAYS

PART NO.	DESCRIPTION	AMPS	COIL VOLTAGE
90290	SPST	4	24V
90291	SPST	4	120V
90292	SPST	4	240V
90293	SPDT	1	24V
90294	SPDT	1	120V
90295	SPDT	1	240V

PART NO.	DESCRIPTION	AMPS	COIL VOLTAGE
90370	SPDT	12	24V
90372	SPDT	12	120V
90374	SPDT	12	240V
90380	NO/NC	13	24V
90382	NO/NC	13	120V
90384	NO/NC	13	240V



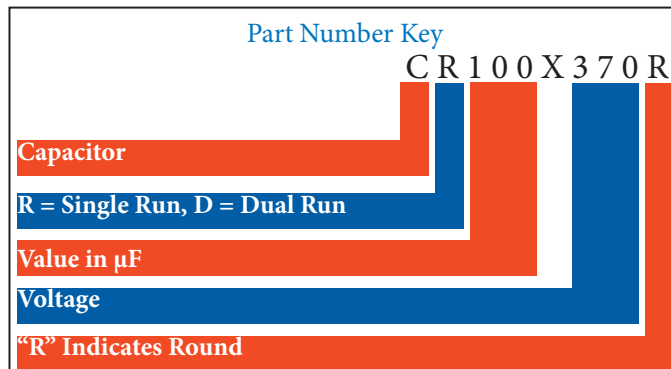
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Motor Run & Motor Start Capacitors

Our Capacitors are Manufactured with the Highest Quality Components.
They are Manufactured and Tested under our High Standards and Specifications.

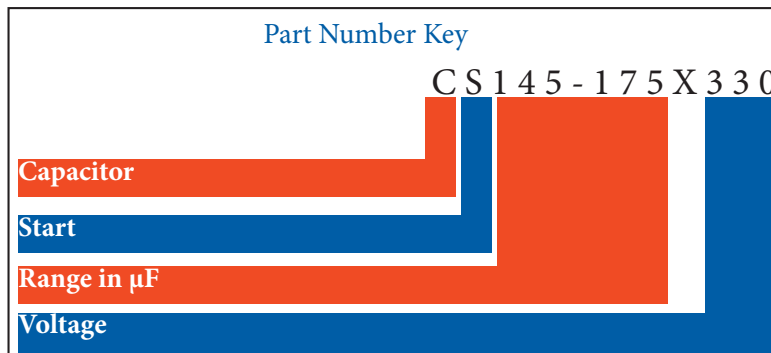
MOTOR RUN CAPACITORS

- Type II Construction
- Non- PCB Biodegradable Synthetic Oil
- Physical Interrupter for Safety
- Drawn Steel Construction
- Quad Blade Quick Connect to Terminals
- Tolerance: +/- 5%
- Operating Temperature: -13°F to 185°F (-25°C to 85°C)
- Meets EIA 456 Standard
- Meets IEC 252 Standard
- Life Tested to 120% of Rated Voltage at 85°C for 1,000 Continuous Hours
- Cycle Tested at 140% of Rated Voltage at 85°C for 100,000 Cycles
- UL® Recognized
- CSA® Certified
- VDE® Approved



MOTOR START CAPACITORS

- Type II Construction
- Non- PCB Biodegradable Synthetic Oil
- Moisture & Oil Resistant Molded Phenolic Resin or Plastic Case
- Industry Standard Case Sizes
- Standard Dual Blade Terminals
- Operating Temperature: -40°F to 149°F (-40°C to 65°C)
- Meets CSA RS463-B Standard
- Meets IEC 60252-2 Standard
- UL® Recognized
- CSA® Certified
- VDE® Approved



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Motor Run Capacitors



Dual Motor Run Capacitors

PART NO.	μF X VOLTAGE	STYLE	DIMENSIONS (INCHES)		
			D	H	W
CD10+10X370R	10+10 μF X 370V	ROUND	2	3 3/8	
CD10+5X440	10+5 μF X 440V	OVAL	2 13/16	2 15/16	1 3/4
CD10+5X440R	10+5 μF X 440V	ROUND	2	3 3/8	
CD15+10X370	15+10 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD15+10X370R	15+10 μF X 370V	ROUND	2	3 3/8	
CD15+10X440	15+10 μF X 440V	OVAL	2 13/16	2 15/16	1 3/4
CD15+3X370	15+3 μF X 440V	OVAL	2 13/16	2 15/16	1 3/4
CD15+3X370R	15+3 μF X 370V	ROUND	2	3 3/8	
CD15+4X370	15+4 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD15+4X370R	15+4 μF X 370V	ROUND	2	3 3/8	
CD15+4X440	15+4 μF X 440V	OVAL	2 13/16	2 15/16	1 3/4
CD15+5X370	15+5 μF X 370V	OVAL	2 13/16	2 9/16	1 3/4
CD15+5X370R	15+5 μF X 370V	ROUND	2	3 3/8	
CD15+5X440	15+5 μF X 440V	OVAL	2 13/16	2 15/16	1 3/4
CD15+5X440R	15+5 μF X 440V	ROUND	2	3 3/8	
CD17.5+4X370	17.5+4 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD17.5+4X370R	17.5+4 μF X 370V	ROUND	2	3 3/8	
CD17.5+5X370	17.5+5 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD17.5+5X370R	17.5+5 μF X 370V	ROUND	2	3 3/8	
CD20+10X370	20+10 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD20+10X370R	20+10 μF X 370V	ROUND	2	3 3/8	
CD20+15X370	20+15 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD20+15X370R	20+15 μF X 370V	ROUND	2	3 3/8	
CD20+15X440	20+15 μF X 440V	OVAL	2 13/16	3 3/8	1 3/4
CD20+15X440R	20+15 μF X 440V	ROUND	1 15/16	4 1/8	
CD20+3X370	20+3 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD20+4X370	20+4 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD20+4X370R	20+4 μF X 370V	ROUND	2	3 3/8	
CD20+5X370	20+5 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD20+5X370R	20+5 μF X 370V	ROUND	1 15/16	3 9/16	
CD20+5X440	20+5 μF X 440V	OVAL	2 13/16	2 15/16	1 3/4
CD20+5X440R	20+5 μF X 440V	ROUND	1 15/16	3 12/16	
CD20+7.5X370	20+7.5 μF X 370V	ROUND	1 15/16	3 9/16	
CD25+10X370	25+10 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD25+10X370R	25+10 μF X 370V	ROUND	2	3 3/8	
CD25+10X440	25+10 μF X 440V	OVAL	2 13/16	3 15/16	1 3/4
CD25+10X440R	25+10 μF X 440V	ROUND	2	4 3/16	
CD25+15X370	25+15 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD25+15X440	25+15 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD25+15X440R	25+15 μF X 440V	ROUND	2	4 3/16	
CD25+3X370	25+3 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD25+3X370R	25+3 μF X 370V	ROUND	1 15/16	3 9/16	
CD25+4X370	25+4 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD25+4X370R	25+4 μF X 370V	ROUND	1 15/16	3 9/16	
CD25+5X370	25+5 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD25+5X370R	25+5 μF X 370V	ROUND	1 15/16	3 9/16	
CD25+5X440	25+5 μF X 440V	OVAL	2 13/16	3 15/16	1 3/4
CD25+5X440R	25+5 μF X 440V	ROUND	1 15/16	3 15/16	
CD25+7.5X370	25+7.5 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD25+7.5X370R	25+7.5 μF X 370V	ROUND	2	3 3/8	
CD25+7.5X440	25+7.5 μF X 440V	OVAL	2 13/16	3 15/16	1 3/4
CD25+7.5X440R	25+7.5 μF X 440V	ROUND	1 15/16	4 5/16	
CD25+8X370	25+8 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD27+5.5X370	27+5.5 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CD30+10X370	30+10 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD30+10X370R	30+10 μF X 370V	ROUND	2	4 3/16	
CD30+10X440	30+10 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD30+15X370R	30+15 μF X 370V	ROUND	2	4 3/16	
CD30+3X370	30+3 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD30+3X370R	30+3 μF X 370V	ROUND	1 15/16	3 12/16	
CD30+3X440R	30+3 μF X 440V	ROUND	2	4 3/16	
CD30+4X370	30+4 μF X 370V	OVAL	2 13/16	3 6/16	1 3/4
CD30+4X370R	30+4 μF X 370V	ROUND	2	4 3/16	
CD30+4X440	30+4 μF X 440V	OVAL	2 13/16	4 3/16	1 3/4

PART NO.	μF X VOLTAGE	STYLE	DIMENSIONS (INCHES)		
			D	H	W
CD30+4X440R	30+4 μF X 440V	ROUND	2	4 3/16	
CD30+5X370	30+5 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD30+5X370R	30+5 μF X 370V	ROUND	1 15/16	3 12/16	
CD30+5X440	30+5 μF X 440V	OVAL	2 13/16	4 1/2	1 3/4
CD30+5X440R	30+5 μF X 440V	ROUND	1 15/16	4 5/16	
CD30+7.5X370	30+7.5 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD30+7.5X370R	30+7.5 μF X 370V	ROUND	2	4 3/16	
CD30+7.5X440	30+7.5 μF X 440V	OVAL	2 13/16	4 3/16	1 3/4
CD30+7.5X440R	30+7.5 μF X 440V	ROUND	1 15/16	4 12/16	
CD35+10X370	35+10 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD35+10X370R	35+10 μF X 370V	ROUND	2	4 3/16	
CD35+10X440	35+10 μF X 440V	OVAL	2 13/16	4 3/16	1 3/4
CD35+10X440R	35+10 μF X 440V	ROUND	1 15/16	5 1/8	
CD35+3X370	35+3 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD35+3X370R	35+3 μF X 370V	ROUND	2	4 3/16	
CD35+3X440	35+3 μF X 440V	OVAL	2 13/16	4 3/16	1 3/4
CD35+3X440R	35+3 μF X 440V	ROUND	1 15/16	4 1/8	
CD35+4X370	35+4 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD35+4X370R	35+4 μF X 370V	ROUND	2	4 3/16	
CD35+4X440	35+4 μF X 440V	OVAL	2 13/16	4 3/16	1 3/4
CD35+4X440R	35+4 μF X 440V	ROUND	2	4 12/16	
CD35+5X370	35+5 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD35+5X370R	35+5 μF X 370V	ROUND	1 15/16	4 1/8	
CD35+5X440	35+5 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD35+5X440R	35+5 μF X 440V	ROUND	1 15/16	4 12/16	
CD35+6X440R	35+6 μF X 440V	ROUND	2	4 12/16	
CD35+7.5X370	35+7.5 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD35+7.5X370R	35+7.5 μF X 370V	ROUND	2	4 3/16	
CD35+7.5X440	35+7.5 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD35+7.5X440R	35+7.5 μF X 440V	ROUND	13/16	4 12/16	
CD35+8.5X440	35+8.5 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD40+10X370	40+10 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD40+10X370R	40+10 μF X 370V	ROUND	2	4 12/16	
CD40+10X440	40+10 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD40+10X440R	40+10 μF X 440V	ROUND	1 15/16	5 1/8	
CD40+3X370	40+3 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD40+3X370R	40+3 μF X 370V	ROUND	2	4 3/16	
CD40+3X440	40+3 μF X 440V	OVAL	2 13/16	3 15/16	1 3/4
CD40+3X440R	40+3 μF X 440V	ROUND	1 15/16	4 5/16	
CD40+4X370	40+4 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD40+4X370R	40+4 μF X 370V	ROUND	2	4 3/16	
CD40+4X440R	40+4 μF X 440V	ROUND	2 3/8	4 3/16	
CD40+5X370	40+5 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD40+5X370R	40+5 μF X 370V	ROUND	1 15/16	4 5/16	
CD40+5X440	40+5 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD40+5X440R	40+5 μF X 440V	ROUND	2 3/8	4 1/8	
CD40+6X440R	40+6 μF X 440V	ROUND	2 3/8	4 3/16	
CD40+7.5X370	40+7.5 μF X 370V	OVAL	2 13/16	4 3/16	1 3/4
CD40+7.5X370R	40+7.5 μF X 370V	ROUND	2	4 3/16	
CD40+7.5X440	40+7.5 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD40+7.5X440R	40+7.5 μF X 440V	ROUND	1 15/16	5 1/8	
CD45+10X370	45+10 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD45+10X370R	45+10 μF X 370V	ROUND	2	4 12/16	
CD45+10X440R	45+10 μF X 370V	ROUND	2 3/8	4 3/16	
CD45+15X370	45+15 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD45+3X370	45+3 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD45+3X370R	45+3 μF X 370V	ROUND	2	4 12/16	
CD45+3X440R	45+3 μF X 370V	ROUND	2 3/8	4 3/16	
CD45+4X370R	45+4 μF X 370V	ROUND	2	4 12/16	
CD45+4X440R	45+4 μF X 440V	ROUND	2 3/8	4 3/16	
CD45+5X370	45+5 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CD45+5X370R	45+5 μF X 370V	ROUND	1 15/16	4 1/2	
CD45+5X440	45+5 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD45+5X440R	45+5 μF X 440V	ROUND	2 3/8	4 5/16	

H
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Motor Run Capacitors



Dual Motor Run Capacitors

PART NO.	μF X VOLTAGE	STYLE	DIMENSIONS (INCHES)		
			D	H	W
CD45+6X440R	45+6 μF X 440V	ROUND	2 3/8	4 3/16	
CD45+7.5X370	45+7.5 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD45+7.5X370R	45+7.5 μF X 370V	ROUND	2	4 12/16	
CD45+7.5X440	45+7.5 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD45+7.5X440R	45+7.5 μF X 440V	ROUND	2 3/8	4 5/16	
CD50+10X370R	50+10 μF X 370V	ROUND	2	4 12/16	
CD50+10X440R	50+10 μF X 440V	ROUND	2 3/8	4 12/16	
CD50+12.5X440R	50+12.5 μF X 440V	ROUND	2 3/8	4 12/16	
CD50+3X370R	50+3 μF X 370V	ROUND	2	4 12/16	
CD50+5X370	50+5 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD50+5X370R	50+5 μF X 370V	ROUND	2	4 12/16	
CD50+5X440	50+5 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD50+5X440R	50+5 μF X 440V	ROUND	2 3/8	4 1/2	
CD50+7.5X370	50+7.5 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD50+7.5X370R	50+7.5 μF X 370V	ROUND	2	4 12/16	
CD50+7.5X440	50+7.5 μF X 440V	OVAL	2 13/16	4 12/16	1 3/4
CD50+7.5X440R	50+7.5 μF X 440V	ROUND	2 3/8	4 12/16	
CD55+10X370R	55+10 μF X 370V	ROUND	2 3/8	4 3/16	
CD55+10X440	55+10 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD55+10X440R	55+10 μF X 440V	ROUND	2 3/8	4 12/16	
CD55+5X370	55+5 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD55+5X370R	55+5 μF X 370V	ROUND	2 3/8	4 3/16	
CD55+5X440	55+5 μF X 440V	OVAL	2 3/8	4 12/16	
CD55+5X440R	55+5 μF X 440V	ROUND	2 3/8	4 12/16	
CD55+7.5X370	55+7.5 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CD55+7.5X370R	55+7.5 μF X 370V	ROUND	2 3/8	4 3/16	
CD55+7.5X440R	55+7.5 μF X 440V	ROUND	2 3/8	4 12/16	
CD60+10X370	60+10 μF X 370V	OVAL	2 13/16	4 15/16	1 3/4
CD60+10X370R	60+10 μF X 370V	ROUND	2 3/8	4 3/16	
CD60+10X440R	60+10 μF X 440V	ROUND	2 3/8	4 15/16	
CD60+12.5X440R	60+12.5 μF X 440V	ROUND	2 3/8	4 12/16	
CD60+15X440R	60+15 μF X 440V	ROUND	2 3/8	4 15/16	
CD60+3X370R	60+3 μF X 370V	ROUND	2 3/8	4 3/16	
CD60+3X440R	60+3 μF X 440V	ROUND	2 3/8	4 3/16	
CD60+5X370	60+5 μF X 370V	OVAL	3 9/16	4 12/16	2 1/15
CD60+5X370R	60+5 μF X 370V	ROUND	2 3/8	4 3/16	
CD60+5X440	60+5 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CD60+5X440R	60+5 μF X 440V	ROUND	2 3/8	4 15/16	
CD60+7.5X370	60+7.5 μF X 370V	OVAL	3 9/16	4 12/16	1 3/4
CD60+7.5X370R	60+7.5 μF X 370V	ROUND	2 3/8	4 3/16	
CD60+7.5X440	60+7.5 μF X 370V	OVAL	3 9/16	4 12/16	2 1/15
CD60+7.5X440R	60+7.5 μF X 440V	ROUND	2 3/8	4 15/16	
CD65+10X440	65+10 μF X 440V	OVAL	3 9/16	4 12/16	2 1/15
CD65+10X440R	65+10 μF X 440V	ROUND	2 3/8	4 12/16	
CD65+5X370	65+5 μF X 370V	OVAL	3 9/16	4 12/16	1 3/4
CD65+5X370R	65+5 μF X 370V	ROUND	2 3/8	4 3/16	
CD65+5X440R	65+5 μF X 440V	ROUND	2 3/8	4 15/16	
CD65+7.5X440	65+7.5 μF X 440V	OVAL	3 9/16	4 12/16	1 3/4
CD70+10X370R	70+10 μF X 370V	ROUND	2 3/8	4 12/16	
CD70+10X440R	70+10 μF X 440V	ROUND	2 3/8	4 12/16	
CD70+5X370R	70+5 μF X 370V	ROUND	2 3/8	4 3/16	
CD70+5X440R	70+5 μF X 440V	ROUND	2 3/8	4 12/16	
CD70+7.5X370R	70+7.5 μF X 370V	ROUND	2 3/8	4 12/16	
CD70+7.5X440R	70+7.5 μF X 440V	ROUND	2 3/8	4 12/16	
CD75+10X370R	75+10 μF X 370V	ROUND	2 3/8	5 2/16	
CD75+10X440R	75+10 μF X 440V	ROUND	2 3/8	5 2/16	
CD75+5X370R	75+3 μF X 370V	ROUND	2 3/8	4 12/16	
CD75+5X440R	75+5 μF X 440V	ROUND	2 3/8	4 12/16	
CD75+7.5X370R	75+7.5 μF X 370V	ROUND	2 3/8	4 12/16	
CD75+7.5X440R	75 + 7.5 μF X 440V	ROUND	2 3/8	5 2/16	
CD80+10X370R	80+10 μF X 370V	ROUND	2 3/8	5 2/16	
CD80+10X440R	80+10 μF X 440V	ROUND	2 3/8	4 15/16	
CD80+12.5X370R	80+12.5 μF X 370V	ROUND	2 3/8	5 2/16	
CD80+5X370	80+5 μF X 370V	OVAL	3 9/16	4 12/16	1 3/4

PART NO.	μF X VOLTAGE	STYLE	DIMENSIONS (INCHES)		
			D	H	W
CD80+5X370R	80+5 μF X 370V	ROUND	2 3/8	4 15/16	
CD80+5X440	80+5 μF X 440V	OVAL	3 9/16	4 12/16	1 3/4
CD80+5X440R	80+5 μF X 440V	ROUND	2 3/8	4 15/16	
CD80+7.5X370	80+7.5 μF X 370V	OVAL	3 9/16	4 12/16	1 3/4
CD80+7.5X370R	80+7.5 μF X 370V	ROUND	2 3/8	4 15/16	
CD80+7.5X440	80+7.5 μF X 440V	OVAL	3 9/16	4 12/16	1 3/4
CD80+7.5X440R	80+7.5 μF X 440V	ROUND	2 3/8	4 15/16	
CD85+10X370R	85+10 μF X 370V	ROUND	2 3/8	5 2/16	
CD85+10X440R	85+10 μF X 440V	ROUND	2 3/8	5 2/16	
CD85+5X370R	85+5 μF X 370V	ROUND	2 3/8	5 2/16	
CD85+5X440R	85+5 μF X 440V	ROUND	2 3/8	5 2/16	
CD85+7.5X370R	85+7.5 μF X 370V	ROUND	2 3/8	5 2/16	
CD85+7.5X440R	85+7.5 μF X 440V	ROUND	2 3/8	5 2/16	

Single Motor Run Capacitors

PART NO.	μF X VOLTAGE	STYLE	DIMENSIONS (INCHES)		
			D	H	W
CR100X370	100 μF X 370V	OVAL	3 9/16	5 2/16	2 1/15
CR100X370R	100 μF X 370V	ROUND	2 3/8	4 15/16	
CR10X370	10 μF X 370V	OVAL	2 1/16	2 9/16	1 1/4
CR10X370R	10 μF X 370V	ROUND	2	2 3/16	
CR10X440	10 μF X 440V	OVAL	2 1/16	2 15/16	1 1/4
CR10X440R	10 μF X 440V	ROUND	1 15/16	2 3/16	
CR12.5X370	12.5 μF X 370V	OVAL	2 1/16	2 12/16	1 1/4
CR12.5X370R	12.5 μF X 370V	ROUND	2	2 3/16	
CR12.5X440	12.5 μF X 440V	OVAL	2 1/16	3 3/8	1 1/4
CR12.5X440R	12.5 μF X 440V	ROUND	1 3/4	2 13/16	
CR15X370	15 μF X 370V	OVAL	1 15/16	3 9/16	1 1/4
CR15X370R	15 μF X 370V	ROUND	1 15/16	2 3/16	
CR15X440	15 μF X 440V	OVAL	2 1/16	3 15/16	1 1/4
CR15X440R	15 μF X 440V	ROUND	1 12/16	2 9/16	
CR16X370R	16 μF X 370V	ROUND	1 3/4	2 13/16	
CR17.5X370	17.5 μF X 370V	OVAL	2 13/16	2 9/16	1 3/4
CR17.5X370R	17.5 μF X 370V	ROUND	1 3/4	2 13/16	
CR17.5X440	17.5 μF X 440V	OVAL	2 13/16	2 12/16	1 3/4
CR17.5X440R	17.5 μF X 440V	ROUND	1 3/4	2 13/16	
CR2.5X440	2.5 μF X 440V	OVAL	2	2 3/16	1 1/4
CR20X370	20 μF X 370V	OVAL	2 13/16	2 9/16	1 3/4
CR20X370R	20 μF X 370V	ROUND	1 3/4	2 12/16	
CR20X440	20 μF X 440V	OVAL	2 13/16	2 12/16	1 3/4
CR20X440R	20 μF X 440V	ROUND	1 3/4	3 1/8	
CR25X370	25 μF X 370V	OVAL	2 13/16	2 9/16	1 3/4
CR25X370R	25 μF X 370V	ROUND	1 3/4	2 12/16	
CR25X440	25 μF X 440V	OVAL	2 13/16	3 1/8	1 3/4
CR25X440R	25 μF X 440V	ROUND	1 3/4	3 9/16	
CR25X480	25 μF X 480V	OVAL	2 13/16	3 1/8	1 3/4
CR2X370	2 μF X 370V	OVAL	2 1/16	2 3/16	1 1/4
CR2X370R	2 μF X 370V	ROUND	1 9/16	2 3/16	
CR2X440	2 μF X 440V	OVAL	2 1/16	2 3/16	1 1/4
CR2X440R	2 μF X 440V	ROUND	1 9/16	2 3/16	
CR30X370	30 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CR30X370R	30 μF X 370V	ROUND	1 12/16	3 9/16	
CR30X440	30 μF X 440V	OVAL	2 13/16	3 9/16	1 3/4
CR30X440R	30 μF X 440V	ROUND	1 15/16	3 12/16	
CR35X370	35 μF X 370V	OVAL	2 13/16	2 15/16	1 3/4
CR35X370R	35 μF X 370V	ROUND	1 15/16	3 9/16	
CR35X440	35 μF X 440V	OVAL	2 13/16	3 15/16	1 3/4
CR35X440R	35 μF X 440V	ROUND	1 15/16	3 12/16	
CR3X370	3 μF X 370V	OVAL	2 1/16	2 3/16	1 1/4
CR3X370R	3 μF X 370V	ROUND	1 9/16	2 3/16	
CR3X440	3 μF X 440V	OVAL	2 1/16	2 3/16	1 1/4
CR3X440R	3 μF X 440V	ROUND	1 9/16	2 3/16	
CR40X370	40 μF X 370V	OVAL	2 13/16	3 15/16	1 3/4
CR40X370R	40 μF X 370V	ROUND	1 15/16	3 15/16	

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Motor Run & Motor Start Capacitors



Single Motor Run Capacitors

PART NO.	μF X VOLTAGE	STYLE	DIMENSIONS (INCHES)		
			D	H	W
CR40X440	40 μF X 440V	OVAL	2 13/16	4 5/16	1 3/4
CR40X440R	40 μF X 440V	ROUND	1 15/16	3 15/16	
CR45X370	45 μF X 370V	OVAL	2 13/16	3 9/16	1 3/4
CR45X370R	45 μF X 370V	ROUND	1 15/16	3 15/16	
CR45X440	45 μF X 440V	OVAL	2 13/16	4 1/2	1 3/4
CR45X440R	45 μF X 440V	ROUND	1 15/16	4 5/16	
CR4X370	4 μF X 370V	OVAL	2 1/16	2 3/16	1 1/4
CR4X370R	4 μF X 370V	ROUND	1 9/16	2 3/16	
CR4X440	4 μF X 440V	OVAL	2 1/16	2 3/16	1 1/4
CR4X440R	4 μF X 440V	ROUND	1 9/16	2 3/16	
CR50X370	50 μF X 370V	OVAL	2 13/16	4 5/16	1 3/4
CR50X370R	50 μF X 370V	ROUND	1 15/16	4 5/16	
CR50X440	50 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CR50X440R	50 μF X 440V	ROUND	1 15/16	4 12/16	
CR55X370	55 μF X 370V	OVAL	2 13/16	4 1/2	1 3/4
CR55X370R	55 μF X 370V	ROUND	1 15/16	3 15/16	
CR55X440	55 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CR55X440R	55 μF X 440V	ROUND	1 15/16	4 15/16	
CR5X370	5 μF X 370V	OVAL	2 1/16	2 3/16	1 1/4
CR5X370R	5 μF X 370V	ROUND	1 9/16	2 3/16	
CR5X440	5 μF X 440V	OVAL	2 1/16	2 3/16	1 1/4
CR5X440R	5 μF X 440V	ROUND	1 15/16	2 3/16	
CR60X370	60 μF X 370V	OVAL	2 13/16	4 15/16	1 3/4
CR60X370R	60 μF X 370V	ROUND	1 15/16	4 12/16	
CR60X440	60 μF X 440V	OVAL	2 13/16	4 15/16	1 3/4
CR60X440R	60 μF X 440V	ROUND	1 15/16	4 15/16	
CR65X370	65 μF X 370V	OVAL	2 13/16	4 12/16	1 3/4
CR65X370R	65 μF X 370V	ROUND	2 3/8	4 3/16	
CR65X440	65 μF X 440V	OVAL	1 15/16	4 12/16	
CR6X370	6 μF X 370V	OVAL	2 1/16	2 3/16	1 1/4
CR6X370R	6 μF X 370V	ROUND	2	2 3/16	
CR6X440	6 μF X 400V	OVAL	2 1/16	2 3/16	1 1/4
CR6X440R	6 μF X 440V	ROUND	2	2 3/16	
CR7.5X370	7.5 μF X 370V	OVAL	2 1/16	2 3/16	1 1/4
CR7.5X370R	7.5 μF X 370V	ROUND	2	2 3/16	
CR7.5X440	7.5 μF X 440V	OVAL	2 1/16	2 9/16	1 1/4
CR7.5X440R	7.5 μF X 440V	ROUND	2	2 3/16	
CR70X370	70 μF X 370V	OVAL	2 13/16	4 15/16	1 3/4
CR70X370R	70 μF X 370V	ROUND	2 3/8	3 15/16	
CR70X440	70 μF X 440V	OVAL	2 13/16	5 2/16	1 3/4
CR70X440R	70 μF X 440V	ROUND	2 3/8	4 15/16	
CR75X440	75 μF X 440V	OVAL	2 13/16	5 2/16	1 3/4
CR80X370	80 μF X 370V	OVAL	2 13/16	5 2/16	1 3/4
CR80X370R	80 μF X 370V	ROUND	2 3/8	4 5/16	
CR80X440	80 μF X 440V	OVAL	2 13/16	5 2/16	1 3/4
CR80X440R	80 μF X 440V	ROUND	2 3/8	4 15/16	
CR90X440R	90 μF X 440V	ROUND	2 3/8	5 2/16	

Start Capacitors

PART NO.	MOTOR START CAPACITORS	μF X Voltage	DIMENSIONS (DIA x H) (INCHES)
CS108-130X110	108-130 μF X 110-125V	1-7/16 x 2-3/4	
CS108-130X220	108-130 μF X 220-240V	1-13/16 x 3-3/8	
CS108-130X330	108-130 μF X 330V	2-1/16 x 4-3/8	
CS124-156X110	124-156 μF X 110-125V	1-7/16 x 2-3/4	
CS124-156X165	124-156 μF X 165V	1-7/16 x 2-3/4	
CS124-156X220	124-156 μF X 220-240V	1-13/16 x 3-3/8	
CS124-156X330	124-156 μF X 330V	2-1/16 x 4-3/8	
CS130-156X110	130-156 μF X 110V	1-7/16 x 2-3/4	
CS130-156X220	130-156 μF X 220V	1-13/16 x 3-3/8	
CS130-156X330	130-156 μF X 330V	1-13/16 x 4-3/8	
CS145-175X110	145-175 μF X 110-125V	1-7/16 x 2-3/4	
CS145-175X165	145-175 μF X 165V	1-7/16 x 2-3/4	
CS145-175X220	145-175 μF X 220-240V	1-13/16 x 4-3/8	

Start Capacitors

PART NO.	MOTOR START CAPACITORS	μF X Voltage	DIMENSIONS (DIA x H) (INCHES)
CS161-193X110	161-193 μF X 110-125V	1-7/16 x 2-3/4	
CS161-193X165	161-193 μF X 165V	1-7/16 x 2-3/4	
CS161-193X220	161-193 μF X 220-240V	1-13/16 x 4-3/8	
CS161-193X330	161-193 μF X 330V	2-9/16 x 4-3/8	
CS189-227X110	189-227 μF X 110-125V	1-7/16 x 2-3/4	
CS189-227X220	189-227 μF X 220-240V	2-1/16 x 4-3/8	
CS189-227X330	189-227 μF X 330V	2-9/16 x 4-3/8	
CS200-240X110	200-240 μF X 110-125V	1-7/16 x 2-3/4	
CS21-25X110	21-25 μF X 110-125V	1-7/16 x 2-3/4	
CS21-25X220	21-25 μF X 220-240V	1-7/16 x 2-3/4	
CS21-25X330	21-25 μF X 330V	1-7/16 x 2-3/4	
CS216-227X220	216-227 μF X 220-240V	2-1/16 x 4-3/8	
CS216-259X110	216-259 μF X 110-125V	1-7/16 x 3-3/8	
CS216-259X220	216-259 μF X 220-240V	2-1/16 x 4-3/8	
CS216-259X330	216-259 μF X 330V	2-9/16 x 4-3/8	
CS233-280X110	233-288 μF X 110V	1-7/16 x 3-3/8	
CS233-280X220	233-288 μF X 220V	2-1/16 x 4-3/8	
CS233-292X110	233-292 μF X 110-125V	1-7/16 x 3-3/8	
CS233-292X165	233-292 μF X 165V	1-13/16 x 3-3/8	
CS233-292X220	233-292 μF X 220-240V	2-1/16 x 4-3/8	
CS25-30X110	25-30 μF X 110-125V	1-7/16 x 2-3/4	
CS25-30X220	25-30 μF X 220-240V	1-7/16 x 2-3/4	
CS25-30X330	25-30 μF X 330V	1-7/16 x 3-3/8	
CS270-324X110	270-324 μF X 110-125V	1-7/16 x 3-3/8	
CS270-324X165	270-324 μF X 165V	1-13/16 x 3-3/8	
CS270-324X220	270-324 μF X 220-240V	2-1/16 x 4-3/8	
CS270-324X330	270-330 μF X 330V	2-9/16 x 4-3/8	
CS280-336X220	280-336 μF X 220V	2-1/16 x 4-3/8	
CS300-360X110	300-360 μF X 110-125V	1-13/16 x 3-3/8	
CS300-360X330	300-360 μF X 330V	2-9/16 x 4-3/8	
CS30-36X110	30-36 μF X 110-125V	1-7/16 x 2-3/4	
CS30-36X220	30-36 μF X 220-240V	1-7/16 x 2-3/4	
CS30-36X330	30-36 μF X 330V	1-13/16 x 3-3/8	
CS320-384X220	320-480 μF X 220V	2-1/16 x 4-3/8	
CS324-388X110	324-388 μF X 110-125V	1-13/16 x 3-3/8	
CS324-388X330	324-388 μF X 330V	2-9/16 x 4-3/8	
CS340-408X110	340-408 μF X 110-125V	1-13/16 x 3-3/8	
CS36-43X110	36-43 μF X 110-125V	1-7/16 x 2-3/4	
CS36-43X220	36-43 μF X 220-240V	1-7/16 x 2-3/4	
CS36-43X330	36-43 μF X 330V	1-7/16 x 3-3/8	
CS378-440X110	378-440 μF X 110-125V	1-13/16 x 3-3/8	
CS400-480X110	400-480 μF X 110-125V	1-13/16 x 3-3/8	
CS400-480X220	400-480 μF X 220V	2-1/16 x 4-3/8	
CS430-516X110	430-516 μF X 110V	1-13/16 x 3-3/8	
CS43-56X110	43-56 μF X 110-125V	1-7/16 x 2-3/4	
CS43-56X220	43-56 μF X 220-240V	1-7/16 x 2-3/4	
CS43-56X330	43-56 μF X 330V	1-13/16 x 3-3/8	
CS460-552X110	460-552 μF X 110-125V	1-13/16 x 3-3/8	
CS53-70X330	53-70 μF X 330V	1-13/16 x 3-3/8	
CS540-648X110	540-648 μF X 110-125V	1-13/16 x 3-3/8	
CS56-72X110	56-72 μF X 110-125V	1-7/16 x 2-3/4	
CS56-72X220	56-72 μF X 220-240V	1-7/16 x 3-3/8	
CS56-72X330	56-72 μF X 330V	1-13/16 x 3-3/8	
CS590-708X110	590-708 μF X 110-125V	1-13/16 x 3-3/8	
CS64-77X110	64-77 μF X 110-125V	1-7/16 x 2-3/4	
CS64-77X220	64-77 μF X 220-240V	1-7/16 x 2-3/4	
CS64-77X330	64-77 μF X 330V	1-13/16 x 3-3/8	
CS708-850X110	708-850 μF X 110-125V	1-13/16 x 3-3/8	
CS72-88X110	72-88 μF X 110-125V	1-7/16 x 2-3/4	
CS72-88X220	72-88 μF X 220-240V	1-7/16 x 2-3/4	
CS72-88X330	72-88 μF X 330V	2-1/16 x 3-3/8	
CS829-995X110	829-995 μF X 110-125V	1-13/16 x 3-3/8	
CS88-108X110	88-108 μF X 110-125V	1-7/16 x 2-3/4	
CS88-108X220	88-108 μF X 220-240V	1-13/16 x 3-3/8	
CS88-108X330	88-108 μF X 330V	2-1/16 x 3-3/8	

H
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Contactors



Compact, Universal Design Allows Replacement of Most Common Brands.

DEFINITE PURPOSE CONTACTORS

- Silver Cadmium Oxide Contacts
- Ranges: 20-90 FLA
- Poles: 1.5, 2 & 3
- Coil Voltages: 24, 120 & 240 VAC
- Terminations: Box Lug
- Temperature Range: -40°F to 150°F (-40°C to 65°C)
- UL & CSA Approved



1.5 POLE PART NO.	FULL LOAD AMPS	COIL VOLTAGE
DP25241	25	24
DP251201	25	120
DP252401	25	240
DP30241	30	24
DP301201	30	120
DP302401	30	240

2 POLE PART NO.	FULL LOAD AMPS	COIL VOLTAGE
DP20242	20	24
DP201202	20	120
DP202402	20	240
DP25242	25	24
DP251202	25	120
DP252402	25	240
DP30242	30	24
DP301202	30	120
DP302402	30	240
DP40242	40	24
DP401202	40	120
DP402402	40	240

3 POLE PART NO.	FULL LOAD AMPS	COIL VOLTAGE
DP25243	25	24
DP251203	25	120
DP252403	25	240
DP30243	30	24
DP301203	30	120
DP302403	30	240
DP40243	40	24
DP401203	40	120
DP402403	40	240
DP50243	50	24
DP501203	50	120
DP502403	50	240
DP60243	60	24
DP601203	60	120
DP602403	60	240
DP75243	75	24
DP751203	75	120
DP752403	75	240
DP90243	90	24
DP901203	90	120
DP902403	90	240

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Part Number Key

DP30242

Definite Purpose

Full Load Amps

Coil Voltage

of Poles

SMC11 2 POLE MAGNETIC LINE CONTACTOR

- Non-Positional
- Replaces Mars® 18001 (exact) and Honeywell® R850B1146, Packard® C18001
- Includes 4 Terminals and 4 Screws
- UL File Number E328772

Specifications

Contacts	DPST
Coil Voltage	24 VAC
Full Load Amps	30 Amps
Locked Rotor Amps	120
Resistive Load Amps	30
Frequency	50/60 Hz



Contactors

Cross Reference

PART NO.	GE®	API®	ARROW HART®	CUTLER HAMMER®	DIVERSITECH®	ELMWOOD®	FURNAS®	GE®	GEMLINE®	GLOBAL CUTLER HAMMER®
DP25241	CR453CB3HAA	***	C251NU10	C25CNB125T	***	***	45DG10AJD8A	CR353CB3AH1	***	4140
DP251201	CR453CB3AAA	***	C251NU20	C25CNB125A	***	***	45DG10AFD8A	CR353CB3AA1	***	4141
DP252401	CR453CB3BAA	***	C251NU30	C25CNB125B	***	***	45DG10AGA	CR353CB3AB1	***	4142
DP30241	CR453CC3HAA	***	C301NU10	C25CNB130T	***	***	45EG10AJA	CR353CD3AH1	***	4143
DP301201	CR453CC3AAA	***	C301NU20	C25CNB130A	***	***	45EG10AJA	CR353CD3AA1	***	4144
DP302401	CR453CC3BAA	***	C301NU30	C25CNB130B	***	***	45EG10AGA	CR353CD3AB1	***	4145
DP20242	CR453CA2HAA	***	C202U10	C25BNB220T	***	30B020	45CG20AJ	CR353CA2AH1	***	4101
DP201202	CR453CA2AAA	***	C202U20	C25BNB220A	***	30B0-20	45CG20AF	CR353CA2AA1	***	4102
DP202402	CR453CA2BAA	***	C202U30	C25BNB220B	***	***	45CG20AG	Same	***	4103
DP25242	CR453CB2HAA	***	C252U10	C25BNB225T	DP25224	30C0-20	45DG20AJ	CR353CB2AH1	***	4104
DP251202	CR453CB2AAA	***	C252U20	C25BNB225A	DP252120	30C0-20	45DG20AF	CR353CB2AA1	***	4105
DP252402	CR453CB2BAA	***	C252U30	C25BNB225B	DP252240	30C0-20	45DG20AG	CR353CB2AB1	***	4106
DP30242	CR453CC2HAA	SA2S3024V	C302U10	C25BNB230T	DP30224	30E0-20	45EG20AJ	CR353AC2AH1	***	4107
DP301202	CR453CC2AAA	SA2S30120V	C302U20	C25BNB230A	DP302120	30E0-20	45EG20AF	CR353AC2AA1	***	4108
DP302402	CR453CC2BAA	SA2S30240V	C302U30	C25BNB230B	DP302240	30E0-20	45EG20AG	CR353AC2AB1	***	4109
DP40242	CR453CE2HBB	SA2M4024V	ACC420U10	C25DNF240T	DP40224	30F0-20	45GG20AJ	CR353AD2BH1	***	4161
DP401202	CR453CE2ABB	SA2M40120V	ACC420U20	C25DNF240A	DP402120	30F0-20	45GG20AF	CR353AD2BA1	***	4162
DP402402	CR453CE2BBB	SA2M4024V	ACC420U30	C25DNF240B	DP402240	30F0-20	45GG20AG	CR353AD2BB1	***	4163
DP25243	CR453AB3HAA	***	ACC220U10	C25DND325T	***	30D0-30	42AF35AJ	CR353AB3AH1	DP2530	4110
DP251203	CR453AB3AAA	***	ACC220U20	C25DND325A	***	30D0-30	42AF35AF	CR353AB3AA1	DP2531	4111
DP252403	CR453AB3BAA	***	ACC220U30	C25DND325B	***	30D0-30	42AF35AG	CR353AB3AB1	DP2532	4112
DP30243	CR453AC3HAA	SA3S3024V	ACC330U10	C25DND330T	DP30324	30E0-30	42BF35AJ	CR353AC3AH1	DP3030	4113
DP301203	CR453AC3AAA	SA3S30120V	ACC330U20	C25DND330A	DP303120	30E0-30	42BF35AF	CR353AC3AA1	DP3031	4114
DP302403	CR453AC3BAA	SA3S30240V	ACC330U30	C25DND330B	DP303240	30E0-30	42BF35AG	CR353AC3AB1	DP3032	4115
DP40243	CR453AD3HBB	SA3M4024V	ACC430U10	C25DNF340T	DP40324	30F0-30	42CF35AJ	CR353AD3BH1	DP4030	4116
DP401203	CR453AD3ABB	SA3M40120V	ACC430U20	C25DNF340A	DP403120	30F0-30	42CF35AF	CR353AD3BA1	DP4031	4117
DP402403	CR453AD3BBB	SA3M40240V	ACC430U30	C25DNF340B	DP403240	30F0-30	42CF35AG	CR353AD3BB1	DP4032	4118
DP50243	CR353FE3BH1	SA3G5024V	ACC530U10	C25FNF350T	DP50324	30G0-30	42DF35AJ	CR353FE3BH1	DP5030	4128
DP501203	CR353FE3BA1	SA3G50120V	ACC530U20	C25FNF350A	DP503120	30G0-30	42DF35AF	CR353FE3BA1	DP5031	4129
DP502403	CR353FE3BB1	SA3G50240V	ACC530U30	C25FNF350B	DP503240	30G0-30	42DF35AG	CR353FE3BB1	DP5032	4130
DP60243	CR353FF3BH1	SA3A6024V	ACC530U10	C25FNF360T	DP60324	30H0-30	42EF35AJ	CR353FF3BH1	DP6030	4131
DP601203	CR353FF3BA1	SA3A60120V	ACC530U20	C25FNF360A	DP603120	30H0-30	42EF35AF	CR353FF3BA1	DP6031	4132
DP602403	CR353FF3BB1	SA3A60240V	ACC530U30	C25FNF360B	DP603240	30H0-30	42EF35AG	CR353FF3BB1	DP6032	4133
DP75243	CR353EG3BH1	***	ACC730U10	C25FNF375T	DP75324	***	42FE35AJ	CR353EG3BH1	***	4134
DP751203	CR353EG3BA1	***	ACC730U20	C25FNF375A	DP753120	***	42FE35AF	CR353EG3BA1	DP7531	4135
DP752403	CR353EG3BB1	***	ACC730U30	C25FNF375B	DP753240	***	42FE35AG	CR353EG3BB1	DP7532	4136
DP90243	CR353EH3BH1	***	***	C25GNF390T	DP90324	***	42GE35AJ	CR353EH3BH1	***	4137
DP901203	CR353EH3BA1	***	ACC930U20	C25GNF390A	DP903120	***	42GE35AF	CR353EH3BA1	DP9031	4138
DP902403	CR353EH3BB1	***	ACC930U30	C25GNF390B	DP903240	***	42GE35AG	CR353EH3BB1	DP9032	4139

PART NO.	HONEYWELL®	HONEYWELL®	JOSLYN CLARK®	MA LINE POWER PRO®	MARS ECONOMY®	PACKARD / FASCO®	PRODUCTS UNLIMITED®	RBM/ESSEX®	SQUARE D®	STEVECO®
DP25241	DP1025A5005	***	A77306654A3	***	***	1S25A	310015Q01XXXA	***	8910DP21	94385
DP251201	DP1025B5046	***	A77306654A1	***	***	1S25B	310015T01XXXA	***	***	94386
DP252401	DP1025C5045	***	A77306654A2	***	***	1S25C	310015U01XXXA	***	***	94387
DP30241	DP1030A5013	***	A77306653A3	***	13067/13101	1S30A	310015Q02XXXA	***	8910DP12	94388
DP301201	DP1030B5020	***	A77306653A1	***	13068	1S30B	310015T02XXXA	***	***	94389
DP302401	DP1030C5029	***	A7730665312	***	13069	1S30C	310015U02XXXA	***	***	94390
DP20242	DP2020A5021	***	A77306680A3	***	13071	2S20A	310020Q03XXXA	143-1	DP12V14	90234
DP201202	DP2020B5038	***	A77306680A1	***	13072	2S20B	310020T03XXXA	143-1	DP12V02	90235
DP202402	DP2020C5037	***	A77306680A2	***	13073	2S20C	310020U03XXXA	***	***	90236
DP25242	***	***	A77306660A3	***	13077	***	***	143-6	DP22V14	***
DP251202	***	***	A77306660A1	***	13078	***	***	143-6	DP22V02	***
DP252402	***	***	A77306660A2	***	13079	***	***	143-6	DP22V09	***
DP30242	DP2030A5004	DP2030A1003	A77306657A3	8910DP32V14	14321/13104	C2S30A	310020Q06XXXA	143-7	DP32V14	90244
DP301202	DP2030B5003	DP2030B1002	A77306657A1	***	14322	C2S30B	310020T06XXXA	143-7	DP32V02	90245
DP302402	DP2030C5002	DP2030C1001	A77306657A2	***	14323	C2S30C	310020U06XXXA	143-7	DP32V09	90246
DP40242	DP2040A5003	***	A77309045A3	8910DP42V14	14421	C2S40A	310020Q18XXXA	154-4	DP42V14	***
DP401202	DP2040B5002	***	A77309045A1	***	14422	C2S40B	310020T18XXXA	154-4	DP42V02	***
DP402402	DP2040C5001	***	A77309045A2	***	14423	C2S40C	310020U18XXXA	154-4	DP42V09	***
DP25243	DP3025A5003	DP3025A1002	A77309040A3	***	13001	3M25A	310030Q8XXXAH	154-2	8910DPA23	90160
DP251203	DP3025B5002	DP3025B1001	A77309040A1	***	13002	3M25B	310030T8XXXAH	154-2	DP423V02	90161
DP252403	DP3025C5001	DP3025C1000	A77309040A2	***	13003	3M25C	310030U8XXXAH	154-2	DP423V09	90162
DP30243	DP3030A5003	DP3030A1002	A77309044A3	8910DPA33V14	14331/13007	C3M30A	310030Q9XXXAH	154-3	DP433V14	90163
DP301203	DP3030B5002	DP3030B1001	A77309044A1	8910DPA33V02	13008	C3M30B	310030T9XXXAH	154-3	DP433V02	90164
DP302403	DP3030C5001	DP3030C1000	A77309044A2	8910DPA33V09	13009	C3M30C	310030U9XXXAH	154-3	DP433V09	90165
DP40243	DP3040A5002	DP3040A1001	A77309046A3	8910DPA43V14	14431/13013	C3M40A	310030Q10XXXAH	154-4	DP433V14	90170
DP401203	DP3040B5001	DP3040B1000	A77309046A1	8910DPA43V02	13014	C3M40B	310030T10XXXAH	154-4	DP433V02	90171
DP402403	DP3040C5000	DP3040C1009	A77309046A2	8910DPA43V09	14433/13015	C3M40C	310030U10XXXAH	154-4	DP433V09	90172
DP50243	DP3050A5001	DP3050A1000	A77288514A3	8910DPA53V14	13200	C3L50A	310030Q16XXXCG	***	8910M03	92459
DP501203	DP3050B5000	DP3050B1009	A77288514A1	8910DPA53V02	13201	C3L50B	310030T16XXXCG	***	8910M03	92460
DP502403	DP3050C5009	DP3050C1008	A77288514A2	8910DPA53V09	13202	C3L50C	310030U16XXXCG	***	8910M03	92461
DP60243	DP3060A5000	DP3060A1009	A77288517A3	8910DPA63V14	13220	C3L60A	310030Q17XXXCG	***	8910N03	92463
DP601203	DP3060B5009	DP3060B1008	A77288517A1	8910DPA63V02	13221	C3L60B	310030T17XXXCG	***	8910N03	92464
DP602403	DP3060C5008	DP3060C1007	A77288517A2	8910DPA63V09	13222	C3L60C	310030U17XXXCG	***	8910N03	92465
DP75243	DP3075A5008	DP3075A1007	A77288520A3	***	13240	C3L75A	3100Y30Q75XXXCG	***	***	92467
DP751203	DP3075B5007	DP3075B1006	A77288520A1	***	13241	C3L75B	3100Y30T75XXXCG	***	8910P03	92468
DP752403	DP3075C5006	DP3075C1005	A77288520A2	***	13242	C3L75C	3100Y30U75XXXCG	***	***	92469
DP90243	***	***	DP3090A1006	***	13260	C3L90A	3100Y30Q90XXXCG	***	***	***
DP901203	***	***	DP3090B1005	***	13261	C3L90B	3100Y30T90XXXCG	***	8910Q03	***
DP902403	***	***	DP3090C1004	***	13262	C3L90C	3100Y30U90XXXCG	***	***	***

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Surge Protectors

COMPRESSOR PROTECTION PACKAGE CPP SERIES

A Hard Start Kit

- Starts the Air Conditioning System in Difficult Times
- Protects it From Potentially Damaging Start-up Current
- Reduces Energy Costs

A Surge Protector

- Protects the Air Conditioning System From Potentially Damaging Power Surges



PART NO.	DESCRIPTION	CONNECTION TYPE	POTENTIAL RELAY TYPE	COMPRESSOR SIZE
CPPMPR1	SCM150 & MPR1	2 - wire	Mechanical	3.5 – 5 hp
CPPMPR5	SCM150 & MPR5	2 - wire	Mechanical	1 – 3 hp
CPP8E	SCM150 & SPP8E	2 - wire	Electronic	1 – 10 hp
CPP3W1	SCM150 & 3W1	3 - wire	Mechanical	1 – 3 hp
CPP3W2	SCM150 & 3W2	3 - wire	Mechanical	3.5 – 4.5 hp
CPP3W3	SCM150 & 3W3	3 - wire	Mechanical	4 – 5 hp

SCM60 & SCM150 SURGE ARRESTORS

- Easy Installation at Condenser or Panel
- Weatherproof Housing
- Green LED to Indicate Surge Protection is Present
- UL Listed: 1449, 3rd Edition
- Connected Equipment Guarantee

Specifications

	SCM60	SCM150
Service Voltage	120/240 Volt, Single Phase	120/240 Volt, Single Phase
Maximum Surge Current	60,000 Amps	100,000 Amps
AC Protection Modes	L-L, L-G	L-L, L-G
Voltage Protection	600V L-G	600V L-G
Rating (VPR)	1200V L-G	1200V L-G
Response Time	< 5 ns	< 5 ns
Operating Frequency	0 – 400 Hz.	0 – 400 Hz.
Nominal Charge Current	10,000 Amps	10,000 Amps
Short Circuit Current Rating	10,000 Amps	10,000 Amps
Diagnostics	Green LED lit - Indicates Surge Protection Present	Green LED lit - Indicates Surge Protection Present
Installation Point	Electrical Panel, Electrical Disconnect	Electrical Panel, Electrical Disconnect
Connection Method	Hardwired parallel	Hardwired parallel
Operating Temperature	-40°F to 140°F (-40°C to 60°C)	-40°F to 140°F (-40°C to 60°C)
Wire gauge, length	12 AWG, 18" long	12 AWG, 18" long
Agency Approvals	UL 1449 3rd Edition Listed Type 2 SPD cUL, ANSI/IEEE C62.11	UL, cUL, ANSI/ IEEE C62.11 Listed Type 2 SPD cUL, ANSI/IEEE C62.11
Housing	High Impact Plastic	High Impact Plastic
Housing Size	2 7/8" x 3 3/4" x 2"	2 7/8" x 3 3/4" x 2"
Weight	1 lb.	1 lb.
Warranty	Limited Lifetime	Limited Lifetime



SYC2P27B

Low Voltage Circuit Surge Arrestors

- 0-24 VAC or VDC
- 27V Clamping Voltage
- Single Pair, Bi-directional Protection
- One Surge Arrestor Per Circuit

Specifications

Service Voltage	0-24 AC or DC
Clamping Voltage	38 VDC or 27 VAC
Response Time	< 5 ns
Installation	Parallel Hardwire
Housing Size	2" x 2" x 1"
Weight	1 oz.
Warranty	Limited Lifetime
Connected Equipment Guarantee	N/A



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Surge Protectors

SYCTC2403D & SYCTC4803D

SYCTC2403D & SYCTC4803D

- 240, 480 Volt Three Phase Protection
- 50,000 Amps Protection, Per Phase
- Diagnostic Light for Each Phase
- NEMA 4 Enclosure



*Note: SYC-TC240-3D can be used in 208/240 Delta applications.

Specifications

	SYCTC2403D	SYCTC4803D
Service Voltage	240 Volt, 3 Phase Delta	480 Volt, 3 Phase Delta
Maximum Surge Current	50,000 Amps per mode, 150,000 Amps total	50,000 Amps per mode, 150,000 Amps total
AC Protection Modes	L-L, L-G	L-L, L-G
Response Time	< 5 ns	< 5 ns
Operating Frequency	0 – 400 Hz.	0 – 400 Hz.
Diagnostics	Green LED lit - Indicates Surge Protection Present	Green LED lit – Indicates Surge Protection Present
Installation Point	Load side of Breaker	Load side of Breaker
Connection Method	Hardwired parallel	Hardwired parallel
Wire gauge, length	12 AWG, 18" long	12 AWG, 18" long
Agency Approvals	UL, cUL, ANSI/ IEEE C62.11	UL, cUL, ANSI/ IEEE C62.11
Housing	High Impact Plastic	High Impact Plastic
Housing Size	5 3/4 " x 6 1/2 " x 3"	5 3/4 " x 6 1/2 " x 3"
Weight	4 lbs.	4 lbs.
Warranty	10 years	10 years

APP120

All Purpose Protector

- Helps Prevent Blown Fuses
- Short Cycle Preparation
- Prevents Operation in Low Voltage Conditions
- Prevents False Starting Attempts
- Easy Installation
- LED to Indicate Proper Operation
- Automatic Restarts

Specifications

Minimum Starting Volts	90 VAC single phase
Operating Volts	115 VAC single phase
Maximum Switching	1.0 HP @ 115 VAC (12,000 BTU)

General Specifications

Time Delay	4 minutes \pm 1 minute
Power consumption	10 mA
Operating Temperature	14°F to 158°F (-10°C to 70°C)
Size	9.055" X 4.72" X 3.15" (230mm X 120mm X 80mm)



Motor Protectors

TPMP2

Three Phase Motor Protector

- Low Cost Three Phase Motor Protection
- Easy Installation
- Compact Design
- Monitors and Protects Against Phase Loss and Imbalance Only
- Operating Temperature -40°F to 167°F (-40°C to 75°C)
- 1/4" Male Spade Terminal Connections

Specifications

Input Line Voltage	208 - 277 VAC
Control Voltage	18 - 240 VAC
Frequency	50/60 Hz
Imbalance	Fixed 7%
Total Power Consumption	3 VA Maximum
Contact Type	N.O. & N.C. Type C
Resistive	5 AMP 240 VAC/10 AMP 120 VAC
Fire Resistive Plastic	UL-94 VO
Dimensions	2.35" x 2.43" x 1.1" (59.7 x 61.7 x 27.9 mm)
Weight	2 oz. (54 gr)



TPMPU

Universal 3-Phase Motor Protector

- Low Cost Universal Three Phase Motor Protection
- Easy Installation
- Minimizes Inventory
- Monitors and Protects Against Phase Loss, Reversal and Imbalance
- Response Time 80 Milliseconds Maximum
- Bright LED For On and Fault Indications

Specifications

Input Line Voltage	180 - 600 VAC
Control Voltage	18 - 240 VAC
Frequency	50/60 Hz (cut wire for Hz)
Imbalance	Adjustable \pm 4 to 20%
Total Power Consumption	3 VA Maximum
Contact Ratings	10 AMP SPDT
Resistive	10 AMP 240 VAC, 12 AMP 120 VAC/24 VAC
Inductive	4.5 AMP 230 VAC- Cos. 0.6
Fire Resistive Plastic	UL-94 VO
Dimensions	5.35" x 3.68" x 1.26" (136 x 93.5 x 32 mm)
Weight	6.35 oz. (180 gr)



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Time Delays

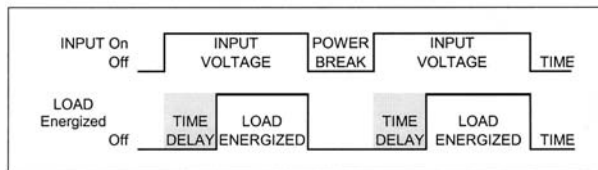
TD SERIES TIME DELAYS

- Fixed or Adjustable Delay Ranges
- Initiates Timer in 70 Milliseconds
- Broad Input Voltage Range (Pilot Circuit)
19 to 250 VAC/VDC, 50/60 Hz (TD60)
19 to 250 VAC ONLY, 50/60 Hz (TD70)
- Maximum Load 1.0 Amp, 10 Amp Inrush
- Varying Models Work With or Without Anticipator Type Thermostats
- Terminal or Wire Connections Available
- Operating Temperature Range 0°F to 160°F (-18°C to 71°C)
- Compact Size 2" x 2" x 0.75" (5.08 x 5.08 x 1.9 cm)
- Non Positional Single Hole Mounting
- All Parameters are Subject to Change as per Special Requirements
- By-pass a Control or Device During Start Up
- Helps to Reduce Power Surges in Multiple Compressor Applications

TD60 SERIES

Delay on Make Timers (DOM)

- Upon Application of Power the Time Delay Initiates. On Completion of Selected Delay Period, the Load is Energized. Timer will Reset on Power Interruption or When Thermostat Disconnects.



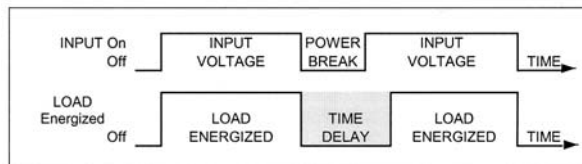
PART NO.	DELAY RANGE		CONNECTIONS	REPLACES
	ADJUSTABLE	FIXED (min)		
TD68**	6 sec to 8 min	n/a	2 1/4" male terminals	Diversitech® AC-800-ADM1 / ICM® 105 / A-1 706 / Mars® 32391
TD69*	6 sec to 8 min	n/a	2 1/4" male terminals	Diversitech® AC-800-ADM1 / ICM 102 / A-1 701 / Mars 32391

*Cut the jumper to use in 120/240 volts. **The TD68 is not for use with a cooling anticipator.

TD70 SERIES

Delay on Break Timers (DOB)

- Upon Application of Power the Load is Energized Immediately. When the Thermostat Opens or on Power Interruption the Load is De-energized and the Time Delay Initiates. The Load will be Energized Again After the Delay has Elapsed.



PART NO.	DELAY RANGE		CONNECTIONS	REPLACES
	ADJUSTABLE	FIXED (min)		
TD72**	6 sec to 5 min	n/a	2 1/4" male terminals	Diversitech® ASC500-ADB1 / ICM® 203 / Mars® 32392 / A-1 EAC-501-ADJ
TD73*	6 sec to 5 min	n/a	2 1/4" male terminals	Diversitech® ASC500-ADB1 / ICM® 203 / Mars® 32392 / A-1 EAC-501-ADJ

*Cut the jumper to use in 120/240 volts. **The TD72 is not for use with a cooling anticipator.

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Direct Replacement Furnace Igniters



SKIT03033

Replaces Trane® KIT03033

- Steady Current: 4.25 Amps @ 115 VAC
- Max. Current: 5 Amps @ 132 VAC
- Time to Temp (1800°F): < 17 Seconds



SPLT3400

Replaces Lochinvar® PLT3400

- Steady Current: 4.25 Amps @ 115 VAC
- Max. Current: 5 Amps @ 132 VAC
- Time to Temp (1800°F): < 17 Seconds



S0230K00000S

Replaces Goodman® 0230K00000S

- Steady Current: 4.25 Amps @ 115 VAC
- Max. Current: 5 Amps @ 132 VAC
- Time to Temp (1800°F): < 17 Seconds

Flat Silicon Carbide Furnace Igniters

- Time to Temperature (1800°F): < 17 Seconds @ 102 VAC
- Voltage: 120 VAC
- Amperage: 3.5-5 AMPS @132 VAC Maximum
- Cold Resistance: 40-100 OHMS @ 75°F +/- 10°F



IG4000 UNIVERSAL REPLACEMENT SUPER KIT

5 Brackets & Hardware Replaces:

- 41-402, 41-403, 41-404,
- 41-405, 41-407, 41-408,
- 41-409, 41-410, 41-412,
- 41-414, 41-1090, 41-238,
- 41-242



IG401 Replaces: 41-401



IG402K KIT Replaces: 41-402, 41-408, 41-410, 41-411



IG403K KIT Replaces: 41-403, 41-404, 41-407 41-409



IG404 Replaces: 41-404



IG405 Replaces: 41-405



IG406 Replaces: 41-406



IG407 Replaces: 41-407



IG408 Replaces: 41-408



IG409 Replaces: 41-409

Flat Silicon Carbide Furnace Igniters



IG410

Replaces: 41-410



IG411

Replaces: 41-411



IG412

Replaces: 41-412



IG414

Replaces: 41-414



IG418

Replaces: Goodman®
B14010-18S

Silicon Nitride Furnace Igniters

Choose from 3 Universal Igniter Kits!

SSN2000

- Economic Design
- < 17 Second Time to Temperature
- Replaces Over 100 OEM Igniters
- > 50,000 Cycles
- 1 Year Warranty



SSN3000

- Robust Design
- < 17 Second Time to Temperature
- Replaces Over 150 OEM Igniters
- > 50,000 Cycles
- 2 Year Warranty



SSN4000

- Miniature Design
- < 10 Second Time to Temperature
- Replaces Over 150 OEM Igniters
- > 200,000 Cycles
- Replaces Honeywell® Glowfly® #Q3200U1004
- 3 Year Warranty



SSN24

- Replaces Honeywell® Q3400A1024
- Compatible with Honeywell® 1st and 2nd Generation Smart Valve
- Includes Igniter and Flame Rod



Round Silicon Carbide Furnace Igniters



SIG100 SERIES

Exact Replacement Round Igniters

- Replaces Exact OEM Round Igniters

PART NO.	PART NO.
SIG100	SIG106
SIG101	SIG107
SIG102	SIG108
SIG104	SIG109



SIG1100

Universal Igniter Kit

- Replaces Over 170 Igniters
- Includes 3 Brackets

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Duct Smoke Detection



DUCT SMOKE DETECTION

InnovairFlex® combines an impressive collection of innovations designed to save you time and money and provide the flexibility you need in the field. An adjustable housing overcomes mounting constraints. Plug-in, tool-free sampling tubes speed installation. The front cover test/reset button simplifies test/maintenance. With these and many more, InnovairFlex is reshaping duct smoke detection.

HVAC SYSTEMS MONITORING



D4120

Photoelectric Duct Smoke Detector

- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC
- 2 Form C Auxiliary



D4120W

Watertight Photoelectric Duct Smoke Detector

- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- NEMA 4
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC
- 2 Form C Auxiliary



D4S

Photoelectric Sensor-only Component

- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC



D4P120

Power-board-only Component

- 4-wire
- 100-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC
- 65mA max. at 24 VDC
- 2 Form C Auxiliary



2D51

Photoelectric No-flow/Low-flow Smoke Detector

- 4-wire
- 0-4,000 ft./min
- -4°F to 158°F (-20° to 70°C)
- 24 VAC/DC or 120 VAC w/ B210LP
- 75mA max.
- 1 Form A & 1 Form C Auxiliary Relay



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RTS2

Multi-signaling Accessory Without Strobe

- 20-29 VDC
- UL® S2522



HVAC ACCESSORIES



RTS2-AOS

Multi-signaling Accessory With Add-on Strobe

- 20-29 VDC
- UL® S2522



RTS151

Remote Test Station

- 2.8-32 VDC
- Alarm LED
- UL® S2522



RA100Z

Remote Annunciator

- 3.1-3.2 VDC
- UL® S2522



APA151

Remote Annunciator With Piezo Alert

- 16-33 VDC
- UL® S4011



DST

Sampling Tubes

- DST1: Ducts Up to 1 Ft.
- DST1.5: Ducts 1 to 2 Ft.
- DST3: Ducts 2 to 4 Ft.
- DST5: Ducts 4 to 8 Ft.
- DST10: Ducts 8 to 12 Ft.



RTS151KEY

Remote Test Station With Key Test/Reset

- UL® S2522



P2W-P

2-Wire Horn Strobe

- Plug-in Design
- Tamper Resistant Construction
- Selectable 12V or 24V Operation
- Field Selectable Candela Settings
- Rotary Switch for Horn Tone & Volume
- Universal Mounting Plate



AOS
Add-on Strobe



Duct Heaters

DH SERIES DUCT HEATER COIL KITS

- Nichrome Heavy Gauge Construction
- Welded Terminal Bolts for Low Resistance and Longer Life
- Complete Kits Contain Close Wound Coil to Fit Many Applications, Two Male and Two Female Bushings, Terminal Screws, Nuts and Washers to Make a Proper Repair. The DH500 & DH500FC Kits Include the SUPCO STC In Line Series Thermal Cutoffs.



DH500
(DH500 Series 3/8" O.D.)

PART NO.	MARS® PART NO.	CLOSE WOUND LENGTH	WATTAGE AT VOLTS	WATTAGE AT VOLTS
DH500*	34601	28"	5000@240	3750@208
DH500-3		23"	5000@480	
DH500FC*		12"	5000@240	3750@208
DH501	34608	22"	3500@240	2600@208
DH502-4		18"	2000@277	
DH506	34630	26 1/2"	4000@240	
DH507		18 1/2"	3000@240	2250@208
DH520	34652	31 1/2"	6600@240	5000@208
DH534	34656	26"	6000@240	4500@208
DH560		28"	5600@240	4200@208

*Includes 306°F Thermal Cutoff SUPCO p/n STC4300



DH500FC
(5/8" O.D.)



Duct Boosters

DB SERIES DUCT BOOSTERS

For Increased Air Flow in Both Hot and Cold Forced Air Systems, the DB Series Duct Boosters Provide the Easy, Economical Solution.

- Easy Installation
- Energy Savings
- Fits in Round, Square or Rectangular Ducts
- Operates Only When You Want It
- 1 Year Warranty
- Motor is Thermally Protected
- Motor Thermal Fuse: 150°F (64°C)
- Maximum Operating Temperature: 140°F (60°C)
- Maximum Airstream Temperature: 135°F (58°C)



Conforms to UL Standard 507



PART NO.	DIMENSIONS	FAN BLADE	VOLTAGE	MOTOR RATINGS	CFM
DB6	6" x 6"	5.25", 1950 rpm	115V 60Hz	.35 A, 30 Watts	250
DB6-220	6" x 6"	5.25", 1950 rpm	220V 50Hz	.25 A, 30 Watts	250
DB8	8" x 8"	7", 1750 rpm	115V 60 Hz	.75 A, 60 Watts	500
DB8-220	8" x 8"	7", 1750 rpm	220V 50 Hz	.45 A, 60 Watts	500
DB10	8" x 10"	8", 1300 rpm	115V 60 Hz	1.5 A, 120 Watts	650
DB12	9" x 12"	10", 1300 rpm	115V60 Hz	1.5 A, 120 Watts	800

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Mini-Split Condensate Pumps



MINI-SPLIT CONDENSATE PUMPS

- Removes Condensate for Systems up to 42,000 BTUs
- 4 GPH
- 24 Foot Maximum Lift
- Vertical Suction: 6 Foot Maximum
- USA & Canada Agency Affiliations: ETL Listed 4000786/
CSA Certified C22.2 NO. 108/ Conforms to UL STD 778
- Noise Level: <21 dB @ 3.3' Distance
- Thermally Protected
- Alarm Level to Prevent Overflow
- Waterproof Connections Prevent Water Ingress
- Piston Pump Provides Long Life
- Optional Mounting Kit: #GC1KFX2010
- 2- Year Warranty



DE05LUA720



GC1KFX2010

Flowatch® Design



FLOWATCH® DESIGN

Mini-Split Condensate Pump with Plastic Duct & Installation Kit

- Includes Mini FLOWATCH® 2 Pump
- Includes Over 2 1/2 Feet of Plastic Duct
- Includes All Mounting Hardware
- Pre-mounted and Wired in Plastic Duct
- 2- Year Warranty

SICCOM® Condensate Pump Line Up

2-WIRE	115V	230V	N.O. SAFETY SWITCH	N.O. / N.C. SAFETY SWITCH	PUMP ONLY	PUMP W/ PLASTIC DUCT
DE05LUA520	X		X		X	
DE005LUA720		X	X		X	
DE05LUA660	X		X			X
3-Wire						
DE05LUB100	X			X	X	
DE05LUB110		X		X	X	
DE05LUB120	X			X		X
DE05LUB130		X		X		

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Air Pressure Sensing Switches



UNIVERSAL STYLE NS2000031

Low Cost, High Accuracy and Reliable Universal Air Pressure Switch that Replaces Many Small Footprint Type Switches

- Senses Positive, Negative or Differential Air Pressure
- Set Point Range: 0.01" to 10" w.c.
- Electrical Ratings: 1/10 hp @ 120 to 277 VAC.
28 VA Pilot Duty @ 24 VAC, 125 VA Pilot Duty 120 VAC
- Contact Arrangement: SPDT
- Operating Temperature: 40°F to 190°F (4.4°C to 87.8°C)
- UL & CSA Approved
- 2-Year Warranty



ADJUSTABLE STYLE RSS SERIES

Ideal for Residential and Light Commercial Furnace, Electronic Air Cleaner and Humidifier Applications.

- Convenient Contractor Kits for After-Market Installation
- Adjustable Set Points
- Factory Set to Activate on Pressure Rise
- Electrical Ratings: 5 Amp Non-inductive 120 to 277 VAC
1 Amp Pilot Duty (120 va) @ 120 VAC
- Contact Arrangement: SPDT
- Operating Temperature Range: 40°F to 190°F (4.4°C to 87.8°C)
- UL & CSA Approved
- 2-Year Warranty



Pressure Range

PART No.	RANGE (Inches of Water Column)
RSS495011	0.25" to 1.0"
RSS498013	1.0" to 4.0"



ADJUSTABLE STYLE AFS222121

General Purpose Switch for HVAC, Direct Digital Control (DDC) and Energy Management Applications

- Senses Positive, Negative or Differential Air Pressure
- Set Point Range: 0.05" to 12.0" w.c.
- Electrical Ratings: 300 VA Pilot Duty @ 115 to 277 VAC,
15 Amp Non-inductive to 277 VAC, 60 Hz.
- Contact Arrangement: SPDT
- Operating Temperature: -40°F to 180°F (-40°C to 82°C)
- UL & CSA Approved
- 2-Year Warranty



Air Pressure Switch Cross Reference

SUPCO Part No.	COMPETITOR NAME	COMPETITOR Part No.
RSS495011	Robertshaw®	2374-495
RSS498013	Robertshaw®	2374-498
AFS222121	Robertshaw®	2374-410
	White Rodgers®	770-1
NS2000031	Honeywell®	IS2 Series IS22010051F5052

S106 SERIES

Time Delay Relays

- SPST or SPDT
- Delay On/Off Timing



PART NO.	A-1®		TIME DELAY ON	TIME DELAY OFF
	PART NO.	SWITCH ACTION	(seconds)	(seconds)
S1061A4575C	FF582	SPST	30 to 50	60 to 90
S1061A5040C	FF583	SPST	45 to 55	30 to 50
S1061A40100C	FF584	SPST	35 to 45	80 to 110
S1061A5560C	FF585	SPST	50 to 60	45 to 75
S1061B6545C	FF586	SPDT	60 to 70	45 to 75

F47 & F214 SERIES

Fan Controls

- Adjustable Temperature Dial



PART NO.	A-1®		WIDTH (inches)	LENGTH (inches)	FAN OFF TEMP.	FAN DIFFERENTIAL
	PART NO.	SWITCH ACTION			(°F)	(°F)
F473TD12025C	FF564	SPST	7/16"	3"	90 to 120	25 to 50
F477TD12025C	FF565	SPST	7/16"	7"	90 to 120	25 to 50
F21412A14025C	FF562	SPST	1-1/16"	3"	60 to 140	25 to 50
F21413A14025C	FF563	SPST	1-1/16"	7"	60 to 140	25 to 50

L59 SERIES

Limit Controls

- SPDT Switch
- User Temperature Adjustment



PART NO.	A-1®		FAN OFF TEMP.	FIXED DIFFERENTIAL
	PART NO.	LENGTH (inches)		(°F)
L593BA	FF568	3"	120 to 250	30
L597BA	FF569	7"	120 to 250	30

FA47TS SERIES

Fan Controls w/ Time Start

- Built in "Heat Assist" Time Delay
- Adjustable Fan OFF Temperature



PART NO.	A-1®		FAN OFF TEMP. (°F)	FAN DIFFERENTIAL (°F)	TIME DELAY @ 24 VAC
	PART NO.	LENGTH (inches)			(sec.)
FA47TS3110	FF566	3"	80 to 110	60 (Fixed)	25 to 60
FA47TS7110	FF567	7"	80 to 110	60 (Fixed)	25 to 60

FAL SERIES

Universal Fan and Limit Controls

- Adjustable Fan OFF Setting
- Adjustable Fan Differential Setting
- Adjustable Limit Temperature



PART NO.	A-1®		FAN OFF TEMP. (°F)	FAN DIFFERENTIAL (°F)	LIMIT TEMP. (°F)	LIMIT DIFFERENTIAL (°F)
	PART NO.	LENGTH (inches)				
FAL3C05TD120A	FF558	3"	90 to 120	25 to 50	150 to 250	30
FAL7C05TD120A	FF559	7"	90 to 120	25 to 50	150 to 250	30
FAL7C20BT120AB	FF594	7"	90 to 120	25 to 50	150 to 250	30

BC7070 (F7070)

BLOWER CONTROL

- Increase Heating Efficiency by Delaying the ON and OFF Cycle of the Blower Fan
- Control Voltage: 24 VAC
- Relay Contacts: SPST
- Blower On Time: 0-240 Seconds Adjustable
- Blower Off Time: 0-240 Seconds Adjustable



FALTS SERIES

Fan and Limit Controls w/ Time Delay

- SPST Switch
- Adjustable Limit Temperature
- Pilot Duty: 40 VA @ 30 VAC & 120 VAC



PART NO.	A-1®		FAN OFF TEMP. (°F)	LIMIT TEMP. (°F)	LIMIT DIFFERENTIAL (°F)
	PART NO.	LENGTH (inches)			
FALTS57C05T120A	FF560	7"	90 to 120	150 to 250	30
FALTS57C65T120A	FF561	7" w/ shield	90 to 120	150 to 250	30
FALTS57C13BT120A	FF591	7" SPDT	90 to 120	150 to 250	30

CIVA5 (FF534) BROWN OUT DELAY TIMER

- Short Cycle & Brown Out Protection For Compressors
- Interlock Time: 5 Minutes
- Under Voltage Protection: Adjustable 16-22 VAC
- Reset Time: 30 Milliseconds



PR SERIES PILOT REIGNITERS

- Prevents Pilot Flames From Extinguishing



PART NO	A1 PART NO	DESCRIPTION
PR24120	FF541	24/120 VAC Hardware Kit , Spark Cable
PR2436W	FF543	24 VAC Hardware Kit, Spark Cable, & PR-24 Module
PR2412036W	FF536	24/120 VAC Hardware Kit, Spark Cable & Module

AFC01T110204 (FF535) ATTIC FAN CONTROL

- Adjustable Fan OFF Temperature 60°-110°F
- Firestat Circuit for Safety Shut Off
- SPST



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Sequencers

THERMODISC®

All Sequencers are OEM Approved for Safety and Reliability

- Direct Replacement for Most Fan & Heat Sequencing Functions
- 24 Volt Input Control
- Contacts Designated M1-M2 of a Multi-timing Sequencer will Turn On First and Turn Off Last, as Required by UL and CSA for Electric Heating Applications
- Five Second on Delay Between all Subsequent Stages, Unless they Function Together



Q101, Q109 & Q116

Q101 OFF 40-110 Sec.
ON 1-20 Sec.

Q109 OFF 40-110 Sec.
ON 20-50 Sec.

Q116 OFF 1-45 Sec.
ON 1-60 Sec.

Q104 & Q110

Q104 OFF 1-30 Sec.
ON 30-90 Sec.

Q110 OFF 30-60 Sec.
ON 10-30 Sec.

Q102

OFF 1-30 Sec.
ON 30-90 Sec.

Q105

OFF 1-110 Sec.
ON 1-110 Sec.

Q103 & Q113

Q103 OFF 40-110 Sec.
ON 1-20 Sec.

*Q113 OFF 15-65 Sec.
ON 30-10 Sec.

*Q113 Has 240 Volt Heater

Q106

OFF 1-110 Sec.
ON 1-110 Sec.

Q108

OFF 65-115 Sec.
ON 1-25 Sec.

Q111

OFF M1-M2 90-160 Sec.
ON M1-M2 10-40 Sec.

OFF M3-M4 30-60 Sec.
ON M3-M4 10-30 Sec.

Q107

OFF 40-110 Sec.
ON 1-20 Sec.

Q112

OFF M1-M2 90-150 Sec.
ON M1-M2 10-3 Sec.

OFF M3-M4 30-60 Sec.
ON M3-M4 10-30 Sec.

OFF M5-M6 30-60 Sec.
ON M5-M6 10-30 Sec.

Q114

OFF 15-25 Sec.
ON 15-45 Sec.

Q115

OFF 1-45 Sec.
ON 1-60 Sec.

*Note all sequencers include a 24 volt heater, except the Q113 which has a 240 volt heater.

	SUPCO®	GEM®	GLOBAL®	MARS®	WATSCO®	KLIXON®	W/R®	ROBERTSHAW®	ELECTRIC® I-9	ZETTLER®	OEM
Q101	GS101	24CZ-1	33241	TDR10	6000AONI-98	24A34-1	611-241	IES24A34-1	ZC24A34-1	Goodman® B1290906	
	***	***	33841	***	***	24A34-7	***	***	***	Lennox® 12F20 & 58C9701	
	***	***	***	***	***	24A34-13	***	***	***	York® 525-37322-000	
Q102	GS102	24CZ-2	33242	TDR15	6000AONI-97	24A34-2	611-242	IES24A34-2	ZC24A34-2	Carrier® 40CF680020	
	***	***	33842	***	***	***	***	***	***		
Q103	GS103	24CZ-3	33244	TDR20	6000AONI-87	24A34-3	611-244	IES24A34-3	ZC24A34-3	ICP® / Carrier® HN67QC005	
	***	***	33844	***	6000EO-102	***	***	***	***	ICP® / Carrier® HQ1056789	
	***	***	***	***	***	***	***	***	***	Goodman® BT1256504	
Q104	GS104	24CZ-4	33245	TDR25	6000E049	24A34-4	611-245	IES24A34-4	ZC24A34-4	York® 525-37325-000	
	***	***	33845	***	***	***	***	***	***	ICP® / Carrier® HN67QC006	
	***	***	***	***	***	***	***	***	***		
Q105	GS105	24CZ-5	33232	TDR30	51172-32	24A34-5	611-232	IES24A34-5	ZC24A34-5	York® 525-37327-000	
	***	***	33832	***	***	24A34-54	***	***	***	Coleman® 3120A357	
Q106	GS106	24CZ-6	33233	TDR35	51172-33	24A34-6	611-233	IES24A34-6	ZC24A34-6	ICP® / Carrier® HN67QC008	
	***	***	33833	***	***	***	***	***	***	ICP® / Carrier® P284-1313	
Q107	GS107	24CZ-14	33848	***	51172-35-1	24A34-14	611-007	IES24A34-14	ZC24A34-14	York® 525-37328-000	
Q108	GS108	***	***	***	6000CO-27	***	***	***	***	Goodman® B13707-38	
	***	***	***	***	***	***	***	***	***	ICP® / Carrier® HN67GJ002	
Q109	***	***	***	***	***	***	***	***	***	Janitrol® BT1256500	
Q110	***	***	***	***	***	***	***	***	***	Weatherking® 4223115608	
Q111	***	***	***	***	***	***	***	***	***	Weatherking® 4223115606	
Q112	***	***	***	***	***	***	***	***	***	Weatherking® 4223115607	
Q113*	***	***	33265	***	6000E4-40	***	***	***	***	***	
Q114	***	***	***	***	***	***	***	***	***	***	Coleman® 7670-307,
	***	***	***	***	***	***	***	***	***	***	7670-308 7670-130,
											7670-913, 7670-101
Q115	***	***	33246	***	6000EOM	24A52-1	***	***	**	Coleman® 3120A3771	
Q116	***	***	33243	***	6000AOM	24A51-1	***	***	***	Coleman® 3110-354	

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Thermostats



GENERAL PURPOSE LIMITS L & LD SERIES

- Open on Rise
- Close when Temperature Differential is Reached
- 1/4" Quick Disconnect Terminals

"L" Series , Single Pole - Single Throw

PART NO.	°DIFF.	OPEN (°F)	CLOSE (°F)
L120	10	120	110
L125	10	125	115
L130	15	130	115
L135	15	135	120
L140	20	140	120
L145	20	145	125
L150	20	150	130
L155	20	155	135
L160	20	160	140
L165	20	165	145
L170	20	170	150
L175	20	175	155
L180-20	20	180	160
L180-40	40	180	140

PART NO.	°DIFF.	OPEN (°F)	CLOSE (°F)
L190	40	190	150
L200	40	200	160
L205	40	205	165
L225	40	225	185
L240	40	240	200
L250	40	250	210
L260	40	260	220
L270	40	270	230
L290	40	290	250
L300	40	300	260
L320	40	320	280
L340	40	340	300



Use 60T Electrical Ratings on page

"LD" Series, Single Pole - Double Pole

PART NO.	DESCRIPTION	OPEN (°F)	CLOSE (°F)	DIFFERENTIAL
LD120	SPDT Thermostats	120	105	15
LD130	SPDT Thermostats	130	115	15
LD135	SPDT Thermostats	135	120	15
LD140	SPDT Thermostats	140	120	20
LD145	SPDT Thermostats	145	125	20
LD155	SPDT Thermostats	155	135	20
LD170	SPDT Thermostats	170	150	20
LD200	SPDT Thermostats	200	160	40
LD225	SPDT Thermostats	225	185	40
LD240	SPDT Thermostats	240	200	40
LD270	SPDT Thermostats	270	230	40



Use 60T Electrical Ratings on page

ADJUSTABLE AT SERIES

- Series Covers Almost 95% of Heater and Dryer Applications
- Dial Knob
- 40° Adjustable Range
- 1/4" Quick Connect Terminals
- Use 60T Electrical Ratings

Adjustable Thermostats

PART NO.	STANDARD MOUNT	ADJUSTABLE RANGE (°F)	DIFFERENTIAL
AT012		135 175	20
AT013		175 215	40
AT014		210 250	40
AT015		250 290	40

Open on Temperature Rise

Adjustable Airflow Thermostats

PART NO.	STANDARD MOUNT	ADJUSTABLE RANGE (°F)	DIFFERENTIAL
AT021		90 130	20
AT022		140 180	20

Close on Temperature Rise



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Thermostats

THERMODISC®



FAN CONTROL* CLOSE ON RISE

PART NO.	DESCRIPTION	CUT OUT (°F)	CUT IN (°F)	DIFFERENTIAL
SHF90	Fan	80	90	10
SHF110	Fan	90	110	20
SHF110DC	Fan - Deep Cup	90	110	20
SHF120	Fan	110	120	10
SHF140	Fan	120	140	20
SHF250	Fan	220	250	30

*Adapter Flange Plate included with each thermostat.

*Use 60T Electrical Ratings on page



LIMIT CONTROL* OPEN ON RISE

PART NO.	DESCRIPTION	CUT OUT (°F)	CUT IN (°F)	DIFFERENTIAL
SHL120	Limit - Open on Rise	120	110	10
SHL140	Limit - Open on Rise	140	100	40
SHL150	Limit - Open on Rise	150	110	40
SHL160	Limit - Open on Rise	160	120	40
SHL170	Limit - Open on Rise	170	130	40
SHL180	Limit - Open on Rise	180	140	40
SHL190	Limit - Open on Rise	190	150	40
SHL200	Limit - Open on Rise	200	160	40
SHL230	Limit - Open on Rise	230	190	40
SHL250	Limit - Open on Rise	250	210	40

*Adapter Flange Plate included with each thermostat.

*Use 60T Electrical Ratings on page



MANUAL RESET LIMIT CONTROL* OPEN ON RISE

PART NO.	DESCRIPTION	OPEN (°F)	CLOSE
SHM125	Limit - Open on Rise	125	Manual
SHM130	Limit - Open on Rise	130	Manual
SHM160	Limit - Open on Rise	160	Manual
SHM170	Limit - Open on Rise	170	Manual
SHM180	Limit - Open on Rise	180	Manual

PART NO.	DESCRIPTION	OPEN(°F)	CLOSE
SHM200	Limit - Open on Rise	200	Manual
SHM210	Limit - Open on Rise	210	Manual
SHM290	Limit - Open on Rise	290	Manual
SHM350	Limit - Open on Rise	350	Manual

*Adapter Flange Plate included with each thermostat.

*Use 60T Electrical Ratings on page



HVAC FLUSH MOUNT STAGING THERMOSTATS

PART NO.	DESCRIPTION	OPEN (°F)	CLOSE (°F)	DIFFERENTIAL
FL50	HVAC Staging Thermostat	50	35	15
FL60	HVAC Staging Thermostat	60	45	15

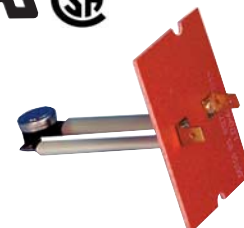
*Use 60T Electrical Ratings on page



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Thermostats

THERMODISC®



GAS FURNACE LIMITS AND PLENUM THERMOSTATS

- Direct OEM Replacements
- Economical
- Use 36T Electrical Ratings

Plenum Thermostats

PART NO	DESCRIPTION	OPEN °F	CLOSE °F	DIFFERENTIAL °F	CARRIER®, BRYANT®, BDP®, DAY & NIGHT®, PAYNE®	JANITROL®, GOODMAN®, AMANA®, GMC®	LENNOX®, AIR-EASE®, ARMSTRONG®, CONCORD®, MAGIC CHEF®	CORSAIR®, RHEEM®, RUUD®, WEATHER KING®	TRANE®	YORK®, BORG-WARNER®, FRAZIER®, JOHNSON®, LUXAIRE®
SHL501	L170-40 SPST	170°	130°	40°	HH12ZA174A HH127A176A P331-2203			47-21711-06		025-29041-007
SHL502	L180-30 SPST	180°	150°	30°	HH12ZA178A	B1370001				
SHL503	L190-40 SPST	190°	150°	40°	HH12ZA189 HH12ZB190 HH12ZA193A P331-2205			47-21711-03		025-29041-012
SHL504	L240-40 SPST	240°	200°	40°	HH12ZA240 HH12ZA252A P331-2217					
SHL505	L140-40 SPST	140°	100°	40°	HH12ZB140				SWT1258	
SHL506	L170-40 SPST	170°	130°	40°	HH12ZB170					
SHL507	L140-30 SPST	140°	110°	30°	HH12ZA140		87F16			025-29041-005
SHL508	L150-20 SPST	150°	130°	20°	HH12ZB190 HH12ZA193 HH12ZA189 P331-2005	B1370913			SWT1260	
SHL509	L240-30 SPST	240°	210°	30°	HH12ZB240 HH12ZA240 HH12ZA252 P331-2217	B1370903				
SHL510	L150-20 SPST	150°	130°	20°	HH12ZB150					
SHL511	L160-20 SPST	160°	140°	20°	HH12ZB160					025-29041-004
SHL512	L170-20 SPST	170°	150°	20°	HH12ZB170		26H66			
SHL513	L170-40 SPST	170°	130°	40°			37H73			
SHL514	L180-40 SPST	180°	140°	40°	HH12ZB180		49L03			025-29031-711
SHL515	L200-40 SPST	200°	160°	40°	HH12ZB200 HH12ZA199 HH12ZA201					025-29041-006
SHL516	L210-40 SPST	210°	170°	40°	HH12ZB210				SWT1263	
SHL517	L220-50 SPST	220°	170°	50°	HH12ZB220 HH12ZA219 HH12ZA223 48NHT042 620BE				SWT1273	
SHL518	L250-40 SPST	250°	210°	40°	HH12ZB250 HH12ZA251 P331-2208	B1370012S			SWT1261 SWT1272	
SHL519	L155-30 SPST	155°	125°	30°		B1370006				
SHL520	L100-20 SPST	100°	80°	20°				47-21711-01		025-29041-002
SHL521	L200-20 SPST	200°	180°	20°				47-21711-04		
SHL522	L160-20 SPST	160°	140°	20°		B1370908S		47-21711-07		
SHL523	L130-20 SPST	130°	110°	20°				47-21711-08		
SHL524	L170-20 SPST	170°	150°	20°				47-21711-10		
SHL525	L180-20 SPST	180°	160°	20°				47-21711-11		

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Thermostats



ROLLOUT SWITCHES

- Auto and Manual Reset
- Offered in a Broad Temperature Range to Cover Most Heating Applications

SMALL FLUSH MOUNT SPST LIMIT THERMOSTATS (FLUSH MOUNT AUTOMATIC ROLLOUT)

PART NO.	TERMINALS	CUT OUT (°F)	CUT IN (°F)	DIFFERENTIAL
SLF130VA	Vertical 1/4"	130	115	15
SLF170VA	Vertical 1/4"	170	130	40
SLF194HB	Horizontal 3/16"	194	154	40
SLF210HA	Horizontal 1/4"	210	170	40
SLF222VA	Vertical 1/4"	222	182	40
SLF230HA	Horizontal 1/4"	230	190	40
SLF250HA	Horizontal 1/4"	250	200	50
SLF330VA	Vertical 1/4"	330	280	50

*Use 36T Electrical Ratings on page



AUTOMATIC ROLLOUTS SPST LIMIT THERMOSTATS

PART NO.	TERMINALS	CUT OUT (°F)	CUT IN (°F)	DIFFERENTIAL
SLS120	45° angle 1/4"	120	105	15
SLS140	45° angle 1/4"	140	100	40
SLS150	45° angle 1/4"	150	110	40
SLS160	45° angle 1/4"	160	120	40
SLS170	45° angle 1/4"	170	130	40
SLS180	45° angle 1/4"	180	140	40
SLS200	45° angle 1/4"	200	160	40
SLS265	45° angle 1/4"	265	215	50
SLS275	45° angle 1/4"	275	225	50
SLS285	45° angle 1/4"	285	235	50
SLS295	45° angle 1/4"	295	245	50
SLS300	45° angle 1/4"	300	250	50

*Use 36T Electrical Ratings on page



MANUAL ROLLOUTS SPST LIMIT THERMOSTATS

PART NO.	TERMINALS	CUT OUT (°F)	CUT IN (°F)	RESETTING
SRL130	Vertical 1/4"	130	Manual	
SRL135	Vertical 1/4"	135	Manual	
SRL220	Vertical 1/4"	220	Manual	
SRL230	Vertical 1/4"	230	Manual	
SRL240	Vertical 1/4"	240	Manual	
SRL250	Vertical 1/4"	250	Manual	
SRL260	Vertical 1/4"	260	Manual	
SRL300	Vertical 1/4"	300	Manual	
SRL350	Vertical 1/4"	350	Manual	

*Use 36T Electrical Ratings on page



SRL Series X Ref

PART NO.	REPLACES OEM	OEM P/N
SRL130	Rheem®/Ruud Weatherking®	47-22453-01
SRL135	Rheem®/Ruud Weatherking®	47-22453-02
SRL220	Nordyne®	626354
SRL230	Nordyne®	626353
SRL240	Nordyne®	626355
SRL250	Nordyne®	626352
SRL260	Nordyne®	626350
SRL300	Nordyne®	626343
	Rheem®/Ruud Weatherking®	47-22861-02
SRL350	Goodman®	B13701-54

*Use 36T Electrical Ratings on page

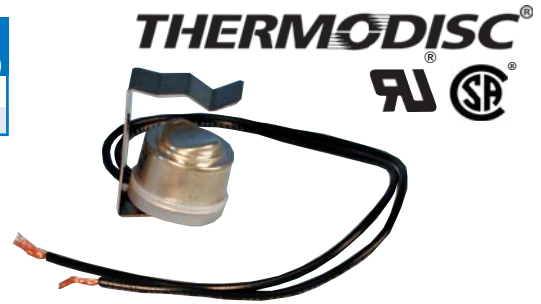
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Thermostats

SFPC FREEZE PROTECTION CONTROL

- Protects Air Conditioning Evaporator Coil from Freezing
- Opens 35°F/Close 50°F
- Fits 7/8" O.D. Tubing
- Replaces: Trol-A-Temp FPC
- Includes Clip to Fit 7/8" O.D. Tubing

VOLTAGE (VAC)	RESISTIVE (NON-INDUCTIVE, AMPS)
120	10
240	5

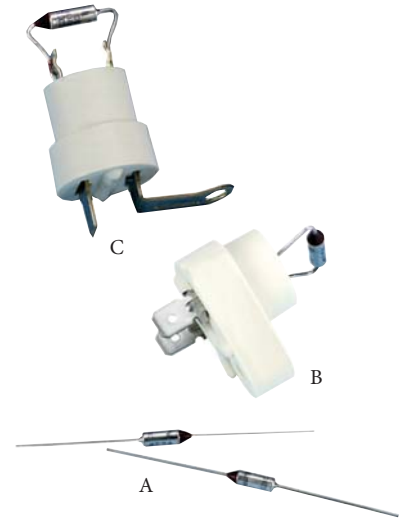


THERMAL CUT OUTS

PART NO. 15 AMP SERIES 1	PART NO. 25 AMP SERIES 2	OPEN TEMP. °C	OPEN TEMP. °F	STYLE
	STC8170	77	170	A
STC4183		84	183	A
STC4199		93	199	A
STC4228		109	228	A
	STC8242	117	242	A
STC4257	STC8257	125	257	A
STC4283	STC8283	139	283	A
STC4300		149	300	A
STC4333		167	333	A

Series 1 Maximum Wattage 1800W @ 120V/2400W @ 240
Series 2 Maximum Wattage 1800W @ 120V/6000W @ 240

PART NO. 15 AMP SERIES 1	PART NO. 25 AMP SERIES 2	OPEN TEMP. °C	OPEN TEMP. °F	STYLE
STC4358		184	363	A
STC4438		226	438	A
STC4468	STC8468	242	468	A
STC5257		125	257	B
	STC85283	139	283	B
STC5300		149	300	B
STC5333		167	333	B
STC5377		192	377	B
STC6257	STC86257	125	257	C
	STC86283	139	283	C
STC6300		149	300	C
STC6333		167	333	C
STC6377	STC86377	192	377	C



PART NO.	TERMINALS	°C	°F	STYLE
STF4170	QC. 1/4"	77	170	36T
STF4183	QC. 1/4"	84	183	36T
STF4230	QC. 1/4"	110	230	36T

Maximum Wattage 1800W @ 120V/2400W @ 240

PART NO.	TERMINALS	°C	°F	STYLE
STF4249B	QC. 3/16"	121	249	36T
STF4291B	QC. 3/16"	144	291	36T
STF4305B	QC. 3/16"	152	305	36T



TERMINAL ADAPTERS

PART NO.	DESCRIPTION	WHERE USED
T1121	2 to 1 Terminal Adapter	1/4" QC Female to 2 Male 1/4" QC Chair Terminal
T1122	2 to 1 Terminal Adapter	1/4" QC Female to 2 Male 1/4" QC Side by Side Terminal
T1123	Screw to Terminal Adapter	8 - 10 Stud to 1/4" QC Terminal
T1124	Terminal to Screw Adapter	1/4" QC Female to Screw Right Angle Terminal
T1125	2 to 1 Terminal Adapter	1/4" QC Female to 1/4" QC Male Piggyback Terminal



TYPICAL ELECTRICAL RATINGS

36T Electrical Ratings

VOLTS (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		Pilot Duty
		Full Load	Locked Rotor	
120	15A	3A	12A	125 VA
240	10A	1.5A	6A	125 VA

350°F Max Ambient Temperature

60T Electrical Ratings

VAC	Resistive (Non-Inductive)	Motor Rating (Inductive)		Pilot Duty
		Full Load	Locked Rotor	
120	25A	14A	72A	125 VA
240	25A	10A	60A	125 VA

350°F Max Ambient Temperature

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Pressure Switches

Manual Reset & Automatic Reset High, Low & Condenser Fan Cycling Pressure Switches

- Life Cycles @ RLA 100,000 Average • Maximum LRA 36 Amps



Electrical Specifications

VOLTS	RLA AMPS
12 to 28 VDC/VAC	10 Amps
48 VDC/VAC	5 Amps
110 to 120 VDC/VAC	5.8 Amps
208 to 240 VDC/VAC	2.9 Amps

Temperatures

Ambient: 20°F to 176°F (-30°C to 80°C)

Fluid: 60°F to 250°F (-50°C to 120°C)

Pressure Ranges

Working: 0 to 650 PSI, Bursting: 5,000 PSI

Connection: 1/4" SAE Female Flare With Valve Core Depressor

Wire Leads: UL1015 18 AWG/18" Length

PART NO.	OPEN PSI (CUT-OUT)	CLOSE PSI (CUT-IN)	TOLERANCE +/- PSI	MARS®	JOHNSON CONTROLS®	RANCO®	ROBERTSHAW®	R410A APPLICATION
Low Pressure Open On Pressure Drop								
SLP0520	5	20	5	33329	P100AC1C	MPL7001	3101001	
SLP0530	5	30	5	43342	N/A	N/A	3100002/MG201132	
SLP1025	10	25	5	33330	P100AP201C	MPL7011	3100050	
SLP1032	10	32	5	33330	P100AP201C	MPL7011	3100050	X
SLP1535	15	35	5	43371	P100AC2	MPL7002	3100001/MG201026	X
SLP2045	20	45	5	43345	N/A	N/A	3100003/MG201133	
SLP2550	25	50	5	43372	N/A	MPL7012	MG212033	X
SLP2565	25	65	5	33336/43347	N/A	N/A	3101002	
SLP2580	25	80	5	33363/43348	N/A	MPL7003	3101003/3100051	
SLP3560	35	60	5	43349	N/A	MPL7004	3100004/MG201593	
SLP4560	45	60	5	43351	P100AP2C	MPL7005	N/A	
SLP4080	40	80	5	33364/43350	N/A	MPL7014	3101005/3100052	
SLP5090	50	90	5	33339/43374	N/A	N/A	N/A	X
SLP75100	75	100	5	33342/43353	N/A	N/A	N/A	X
SLP90120	90	120	5	43375	N/A	N/A	N/A	X
High Pressure Open On Pressure Rise								
SHP200150	200	150	15	33353	N/A	N/A	N/A	
SHP250150	250	150	15	33354/43322	N/A	N/A	N/A	
SHP250180	250	180	15	N/A	N/A	N/A	N/A	
SHP275195	275	195	15	33310/43324	P100CC9C	MPH7102	3100-112	
SHP300200	300	200	15	33355/43325	N/A	MPH7103	N/A	
SHP325225	325	225	15	43326	N/A	MPH7104	N/A	
SHP325230	325	230	15	33313	N/A	N/A	N/A	
SHP350250	350	250	15	33356/33316/43327	N/A	N/A	MPH71053101201/3100150	
SHP375265	375	265	15	33319/43328	N/A	MPH7106	3100111	
SHP400200	400	200	15	33357/43329	N/A	N/A	3100152	
SHP400280	400	280	15	33322/43330	N/A	N/A	N/A	
SHP400300	400	300	15	33358/33370	P100CA1C/P100CP1C	MPH7107	3101202/3100151/MG21-112	
SHP425300	425	300	15	33325/43332	N/A	N/A	N/A	
SHP425325	425	325	15	43333	P100CA2C/P100CP2C	MPH7108	3100100/3100203/MG211046	
SHP450250	450	250	15	33359/43334	N/A	N/A	N/A	
SHP480380	480	380	15	N/A	N/A	N/A	N/A	
SHP550450	550	450	15	N/A	P100CE11D	N/A	N/A	X
SHP600475	600	475	15	33361/43335	N/A	N/A	N/A	
SHP610420	610	420	15	43366/43376	N/A	N/A	N/A	
SHP665565	665	565	15	N/A	P100CP85D	N/A	N/A	X
Manual High Pressure Open On Pressure Rise								
SMR375	375	Manual	15	43312	P100DC3C	MPH7109	N/A	
SMR410	410	Manual	15	33365/43313	P100DA1C	MPH7110	3101301/3100103	
SMR440	440	Manual	15	33352/43315	N/A	N/A	3100104	
SMR575	575	Manual	15	43368	P100DA86D	N/A	N/A	X
SMR610	610	Manual	15	43369	N/A	N/A	N/A	X
SMR630	630	Manual	15	N/A	P100DA81C/D	N/A	N/A	X
Fan Cycle Close On Pressure Rise								
SFC75120	75	120	15	43301	N/A	MPF7006	N/A	
SFC110170	110	170	15	43302	N/A	MPF7007	N/A	
SFC125265	125	265	15	33340/43303	N/A	N/A	N/A	
SFC210275	210	275	15	33341	N/A	MPF7009	3101101/3100079	
SFC150225	150	225	15	43304	P100AP3C	MPF7008	N/A	
SFC170250	170	250	15	N/A	P100AP4C	N/A	N/A	
SFC200240	200	240	15	N/A	N/A	N/A	3100080	
SFC200365	200	365	15	N/A	N/A	N/A	N/A	X
SFC300400	300	400	15	43307	N/A	MPF7010	N/A	X

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Transformers

UNIVERSAL FAN CENTERS

FC4011 & Universal FC4031

- DPDT Plug-in Style Relay (90340)
- 40 VA Transformer
- Mounts Directly to 4" x 4" Electrical Box
- Color Coded Wiring for Easy Installation
- Universal FC4031 Includes Multi-tap Primary Voltages for All Applications, Reduces Inventory

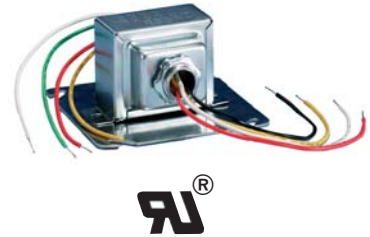


PART NO.	VA	PRIMARY VAC	SECONDARY VAC	hp	CONTACTS	REPLACES JARD®	REPLACES MARS®	REPLACES STEVECO®
FC4011	40	120	24	3/4	DPDT	4011FC	24013	90-113
FC4031	40	120/208/240	24	3/4	DPDT	4031FC	24010	90-130

T45 UNIVERSAL TRANSFORMER

Accepts Input Voltages of 120, 208 and 240 VAC and Provides Choice of Secondary Voltages of 2.5, 8, 12, 16 and 24 VAC.

- 50/60 Hz.
- Enclosed Frame - Plate, Foot or Knock-out Mount



PART NO.	PRIMARY VAC	SECONDARY VAC	VA	H	W	D	MW
T45	120/208/240	2.5, 8, 12, 16 & 24	48	2 1/16"	3 1/4"	2 3/4"	2 13/16"

NOTE: Transformer is furnished with a 4" x 4" mounting plate, wire nuts, 1/2" conduit and 8" leads.

CONTROL TRANSFORMERS

Foot Mount Transformers Specifications

PART NO.	PRIMARY V	SECONDARY V	OUTPUT VA	BREAKER/FUSE	MOUNT TYPE
SXT100R	120/208/240/480	24	100	Breaker	Foot
SXT101	120/208/240	2.5/12/24	40	Fuse	Foot
SXT103	277	24	40	No	Foot
SXT104	208/240	24	40	No	Foot
SXT105	120/208/240	24	40	No	Foot
SXT114	120/208/240	24	20	No	Foot
SXT115	120/208/240	24	40	No	Foot
SXT116	120	24	40	No	Foot
SXT160	208/240	24	60	Fuse	Foot
SXT79R	120/208/240/480	24	75	Breaker	Foot

* Includes Metal Shroud.

Multi-Mount Transformers Specifications

PART NO.	PRIMARY V	SECONDARY V	OUTPUT VA	BREAKER/FUSE	MOUNT TYPE
SXT106	120/208/240	24	40	No	Multi
SXT111	120/208/240	2.5/12/24	40	Fuse	Multi
SXT112	120	24	40	No	Multi
SXT113	208/240	24	40	No	Multi
SXT148	120/208/240	2.5/12/24	48	No	Multi
SXT150	120/208/240	24	50	Fuse	Multi



SXT104



SXT113



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Transformers

Cross Reference

Foot Mount

PART NO.	JARD® PART NO.	MARS® PART NO.	UEI® PART NO.	WHITE-RODGERS® PART NO.	HONEYWELL® PART NO.
SXT101	4032F	50355	UET101	N/A	N/A
SXT104	4021F	50353	N/A	90-T40F2	AT40A1139, AT40B1032
SXT105	4031F	50354	UET105	90-T40F3	AT40A1121, AT40A1139, AT40B1214
SXT114	2031F	50351	UET114	N/A	AT20A1123
SXT115	4031F	50354	UET115	90-T40F3	AT40A1121, AT40A1139, AT40B1214
SXT116	4011F	50352	N/A	90-T40F1	AT40A1121, AT40B1206
SXT79R	7541C	50321	UET79R	90-T75C3	AT88A1005, AT88A1021, AT88A1047
SXT100R	10041C	50341	UET100R	N/A	N/A

Multi-Mount

PART NO.	JARD® PART NO.	MARS® PART NO.	UEI® PART NO.	WHITE-RODGERS® PART NO.	HONEYWELL® PART NO.
SXT106	4031M	50304	N/A	90-T40M3	AT40A1018, AT72D1683, AT72D1691, AT140A1018
SXT111	5032M	50333	UET111	N/A	N/A
SXT113	4021M	50303	UET113	90-T40M2	AT72D1691, AT140A1026
SXT148	5032M	50333	N/A	N/A	N/A
SXT150	5031M	50314	UET150	90-T50M3	AT87A1106, AT87A1007, AT87A1049, AT87A1056, AT150A1007

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Wall Thermostats



A Division Of SUPCO®

All models offer our “quiet switching” mechanical switch design and require no additional sub-base for heating, cooling or heating/cooling installation.

MECHANICAL

HEATING/COOLING THERMOSTATS 43004 - HORIZONTAL & 43005 - VERTICAL

- For Use with Most 4 or 5 Wire 24 VAC Systems and Single-stage Heat Pumps
- Adjustable Heat Anticipator
- Terminations: RC, RH, W, Y, G, O, B



43004A - Horizontal



43005A - Vertical

DIGITAL NON-PROGRAMMABLE

43054

For Conventional Systems and Single-Stage Heat Pumps with Blue Back Light

Features

- Latching Relays For System Compatibility
- Soft Touch Keypad
- Low Battery Indicator
- Blue Backlight
- Easy, Front Load Battery Access
- 2 AA Batteries Included
- °F/°C Selector
- Electronic Digital Accuracy
- Large, Easy-to-Read LCD
- Filter Change Indicator
- No Programming Required
- No Leveling Required
- 3 Year Warranty

Specifications

- 20-30 VAC, 50/60 Hz.
- Current Draws 0.1 to 1.5 Amps
- Temperature Set Range: 45°F to 95°F (7°C to 35°C)
- Operating Differential +/- 1°F
- Compressor Protection: 4 Min. Delay on Break
- Bimetal Freeze Protection
- Terminations: RC/O, RH/B, Y, W, G, R

Compatible With

- 24 VAC Heat/Cool, Heat Only or Cool Only Systems
- Gas, Electric or Oil Systems
- Millivolt Systems
- 2-wire Hydronic Systems



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DIGITAL PROGRAMMABLE

43154

5 Day/2 Day Programming, 4 Periods Per Day, For Conventional Heat/Cool or Single-Stage Heat Pump Systems

Features

- Latching Relays For System Compatibility
- Soft Touch Keypad
- Low Battery Indicator
- Blue Backlight
- Easy, Front Load Battery Access
- 2 AA Batteries Included
- °F/°C Selector
- Adjustable Cycle Rate
- Pre-programmed
- Easy “Front Load” Battery Access
- Mechanical Low Temperature Protection
- Filter Monitor
- Up-opening Door
- Two-stage Low Battery Warning with Fail Safe Protection
- 3 Year Warranty

Specifications

- 20-30 VAC, 50/60 Hz.
- Current Draws 0.1 to 1.5 Amps
- Temperature Set Range: 45°F to 95°F (7°C to 35°C)
- Operating Differential +/- 1°F
- Compressor Protection: 4 Min. Delay on Break
- Terminations: G, RC, RH, Y/O, WB, Y1

Compatible With

- 24 VAC Heat/Cool, Heat Only or Cool Only Systems
- Gas, Electric or Oil Systems
- Millivolt Systems
- 2-wire Hydronic Systems
- Most Single-stage Heat Pumps



E3 SERIES UNIVERSAL THERMOSTATS

53100

Non-programmable

Features

- Easy Install Features
- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3-year Warranty

Specifications

- 20-30 VAC
- Current Draws .1 to 1.5 Amps
- Temperature Set and Control Range 45° to 95°F (6° to 35°C)
- Operating Differential +/- 1°
- Compressor Protection: 3.5 min. Delay on Break
- Terminations: Rh, RC/R, Y, G, W, L, O, B, AE/W2, Y2, C, A

Compatible With

- 2 Heat/2 Cool Systems
- Gas Standing Pilot and Electric Ignition
- Gas and Oil Fired Boilers
- Electric Heat
- Millivolt
- Hot Water Gravity and Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Heat Pumps with Electric/Gas/Oil Auxiliary
- Air/Ground/Hydro Exchanger



53200

5/1/1 Day Programmable

Features

- Easy Install Features
- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals
- 25% Fewer Programming Steps
- Save Away™ Override
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included)
- Freeze Protection
- 3-year Warranty

Specifications

- 20-30 VAC
- Current Draws .1 to 1.5 Amps
- Temperature Set and Control Range 45° to 95°F (6° to 35°C)
- Operating Differential +/- 1°
- Compressor Protection: 3.5 min. Delay on Break
- Terminations: Rh, RC/R, Y, G, W, L, O, B, AE/W2, Y2, C, A

Compatible With

- 2 Heat/2 Cool Systems
- Gas Standing Pilot and Electric Ignition
- Gas and Oil Fired Boilers
- Electric Heat
- Millivolt
- Hot Water Gravity and Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Heat Pumps with Electric/Gas/Oil Auxiliary
- Air/Ground/Hydro Exchanger



Wall Thermostats



A Division Of SUPCO®



53300

7 Day Programmable

Features

- Easy Install Features
- Color Coded Wire Terminals
- Built-in Level Bulb
- Break Away Guides for Less Common Terminals
- Screwless Terminals
- 25% Fewer Programming Steps
- Save Away™ Override
- Energy Guide™
- Home Today™ Override
- Keyboard Lock
- Blue Backlight
- Permanent Memory
- Filter Monitor
- System Powered with Battery Backup, or Battery Powered (2 AA Batteries Included).
- Freeze Protection
- 3-year Warranty

Specifications

- 20-30 VAC
- Current Draws .1 to 1.5 Amps
- Temperature Set and Control Range 45° to 95°F (6° to 35°C)
- Operating Differential +/- 1°
- Compressor Protection: 3.5 min. Delay on Break
- Terminations: Rh, RC/R, Y, G, W, L, O, B, AE/W2, Y2, C, A

Compatible With

- 2 Heat/2 Cool Systems
- Gas Standing Pilot and Electric Ignition
- Gas and Oil Fired Boilers
- Electric Heat
- Millivolt
- Hot Water Gravity and Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Heat Pumps with Electric/Gas/Oil Auxiliary
- Air/Ground/Hydro Exchanger



Easy to Program & Operate Features

Home Today Override keeps comfort level on those odd days when occupants are home during "away" period



Save Away Override allows for energy saving settings when occupants are away during "At Home" period

Away/Asleep/At Home user interface simplifies program periods

Energy Guide gives instant feedback when programming

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Wall Thermostats

PROFESSIONAL SERIES

61100N

Non-Programmable

Features

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Compressor Short Cycle Protection
- Separate O & B Terminals
- Low Battery Indication
- Front Access Reset Button
- F° / C° Switch
- Gas/Electric Fan Switch
- English/Spanish Packaging and Instruction Card

Compatible With

- 1 Heat/1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air/Ground/Hydronic Exchanger



Specifications

- 3.62" x 4.72" x 1.38"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: Rc, Rh, B, O, Y1, W1, G, C

61152P

5/2 Day Programmable

Features

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Filter Check Monitor
- Adjustable Temperature Differential
- Adaptive Recovery Mode
- Temporary Program Override
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- Gas/Electric Fan Switch
- English/Spanish Packaging and Instruction Card

Compatible With

- 1 Heat/1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air/Ground/Hydronic Exchanger



Specifications

- 3.62" x 4.72" x 1.38"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: Rc, Rh, B, O, Y1, W1, G, C

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Wall Thermostats

62100N

Non-Programmable

Features

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Compressor Short Cycle Protection
- Separate O & B Terminals
- Auxiliary Heat Indicator
- Low Battery Indication
- Front Access Reset Button
- F° / C° Switch
- Gas/Electric Fan Switch
- English/Spanish Packaging and Instruction Card

Compatible With

- Up to 2 Heat/1 Cool Conventional or Heat Pump Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air/Ground/Hydronic Exchanger



Specifications

- 3.62" x 4.72" x 1.38"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: Rh, Rc, O, B, Y, E/W1, G, C, W2

62152P

5/2 Day Programmable

Features

- 1.5 Square Inch Display with Bright Blue Backlight
- Hardwire or Battery Powered
- Permanent Memory Retains Settings
- Filter Check Monitor
- Adjustable Temperature Differential
- Adaptive Recovery Mode
- Temporary Program Override
- Auxiliary Heat Status Indicator
- Compressor Short Cycle Protection
- Programmable Extended Hold Mode
- Front Access Reset Button
- F° / C° Switch
- English/Spanish Packaging and Instruction Card

Compatible With

- Up to 2 Heat/1 Cool Conventional or Heat Pump Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Air/Ground/Hydronic Exchanger



Specifications

- 3.62" x 4.72" x 1.38"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 4 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 "AA" Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: Rc, Rh, B, O, Y1, E/W1, G, C, W2

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Wall Thermostats

PERFORMANCE SERIES

71100N

Non-Programmable

Features

- 3 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Permanent Memory Retains Settings
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Set Point Adjustment Limits
- Compressor Short Cycle Protection
- English/Spanish Packaging and Instruction Card

Compatible With

- 1 Heat/1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air/Ground/Hydronic Exchanger



Specifications

- 3.86" x 5.11" x 1.42"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: Rc, Rh, O/B/V3, Y1, W1, G, C, S1, S2

71157P

5/2, 7 Day or Non-Programmable

Features

- 4 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Separate User and Installer Reset Buttons
- Programmable Fan with On or Auto Modes
- Residential or Commercial Mode
- Adaptive Recovery Mode
- Temporary Override Limits
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- English/Spanish Packaging and Instruction Card

Compatible With

- 1 Heat/1 Cool Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air/Ground/Hydronic Exchanger

Specifications

- 3.86" x 5.11" x 1.42"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 3 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: Rc, Rh, O/B/V3, Y1, W1, G, C, S1, S2



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Wall Thermostats

73200N

Non-Programmable

Features

- 3 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Permanent Memory Retains Settings
- Separate User and Installer Reset Buttons
- User Selectable Service Monitors
- Adjustable Balance Points
- Auxiliary Heat Fossil Fuel Option
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- Set Point Adjustment Limits
- Compressor Short Cycle Protection
- English/Spanish Packaging and Instruction Card

Compatible With

- Up to 3 Heat/2 Cool Heat Pump Systems
- Up to 2 Heat/2 Cool Conventional Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Single Stage Heat Pumps
- Air/Ground/Hydronic Exchanger



Specifications

- 3.86" x 5.11" x 1.42"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 5 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2

73257P

5/2, 7 Day or Non-Programmable

Features

- 4 Square Inch Display with Bright Blue Backlight
- Auto or Manual Changeover
- Adjustable Temperature Limits
- Indoor or Outdoor Remote Sensing
- Separate User and Installer Reset Buttons
- Programmable Fan with On or Auto Modes
- Residential or Commercial Mode
- Auxiliary Heat Fossil Fuel Option
- Temporary Override Limits
- Hardwire or Battery Powered
- Multi-Level Keypad Lockout
- English/Spanish Packaging and Instruction Card

Compatible With

- Up to 3 Heat/2 Cool Heat Pump Systems
- Up to 2 Heat/2 Cool Conventional Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Motor Valves (3-wire)
- Hot Water Solenoid Valves (2-wire)
- Air/Ground/Hydronic Exchanger

Specifications

- 3.86" x 5.11" x 1.42"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 5 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: G, Rc, Rh, W2, O/B/V3, Y1, Y2, W1/E/W3, C, L, S1, S2



Wall Thermostats

ULTIMATE SERIES

84210T

5/2, 7 Day or Non-Programmable Touchscreen

Features

- 10 Square Inch Touchscreen Display with Bright Blue Backlight
- Residential or Commercial Modes
- Indoor or Outdoor Remote Sensing
- Auto or Manual Changeover
- Adjustable Compressor Protection
- Hardwire or Battery Powered
- Adjustable Temperature Limits
- Separate User and Installer Reset Buttons
- Auxiliary Heat Fossil Fuel Option
- Multi-Level Keypad Lockout
- Economizer Control
- Programmable Fan Mode
- English/Spanish Packaging and Instruction Card

Compatible With

- Up to 4 Heat/2 Cool Heat Pump Systems
Up to 3 Heat/2 Cool Conventional Systems
- 24 VAC Gas, Oil or Electric Systems
- Millivolt
- Hot Water Gravity & Zoned
- Hot Water Solenoid Valves (2-wire)
- Air/Ground/Hydronic Exchanger



Specifications

- 4.13" x 6.13" x 1.38"
- 24 Volt AC (18-30 Volt AC), 1 Amp Maximum Load Per Terminal, 7 Amp Total Maximum Load (All Terminals)
- 3.0 Volts DC (2 AA Alkaline Batteries Included)
- Control Range 45° to 90°F (7° to 32°C)
- Display Range 40° to 99°F (5° to 37°C)
- Accuracy +/- 1°F (+/- .5°C)
- Storage Temperature 14° to 140°F (-10° to 60°C)
- Operating Humidity 5% to 95% Relative Humidity
- Terminations: A, G, Rc, Rh, W2/AUX2, W3/O/B, Y1, Y2, W1/E/AUX1, C, L, S1, S2

ACCESSORIES

6390

Indoor Remote Sensor

- Simple 2-wire Installation
- For Indoor Use Only
- Mounting Hardware Included
- Accuracy +/- 1°F (+/- .5°C)
- Compatible with CTC™ Thermostats:
71100N, 732N, 71157P, 73257P,



6490

Outdoor Remote Sensor

- Simple 2-wire Installation
- For Outdoor Use Only
- Mounting Bracket Included
- Accuracy +/- 1°F (+/- .5°C)
- Compatible with CTC® Thermostats:
71100N, 732N, 71157P, 73257P,



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Thermostat Guards

SUPCO® offers a complete line of metal and plastic thermostat guards for the HVAC industry. Manufactured with the highest quality materials and production standards to ensure rugged dependability and attractive appearance.

Metal Thermostat Guards

- 18-22 Gauge Steel
- Baked Enamel Finish
- Louvered Cover
- Maximum Protection

Plastic Thermostat Guards

- Hi-impact Plastic
- Clear
- Opaque

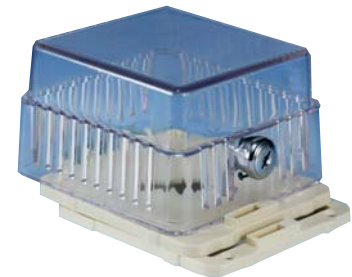
All Models

- Locking Key
- Mounting Hardware
- Vertical or Horizontal Mounting

PART NO.	DESCRIPTION	INSIDE DIMENSIONS	
		SOLID BASE (H x W x D)	RING BASE (H x W x D)
Universal			
BTG-UK2	Clear Plastic	8 1/4" x 5 3/8" x 3 1/2"	8 1/8" x 4 5/8" x 3-5/8"
BTG-UO2	Opaque Plastic	8 1/4" x 5 3/8" x 3 1/2"	8 1/8" x 4 5/8" x 3-5/8"
BTG-UM	Metal	8 1/4" x 5 3/8" x 3 1/2"	-
BTG-UWM	Metal	-	6 3/4" x 4 1/2" x 3 9/16"
BTG-UN	Clear Plastic	-	-
Elite			
BTG-EK	Clear Plastic	3 7/8" x 3 1/2" x 2 1/2"	-
Classic			
BTG-K	Clear Plastic	5 1/4" x 4 3/8" x 3"	5 1/4" x 4 5/8" x 3 1/4"
BTG-O	Opaque Plastic	5 1/4" x 4 3/8" x 3"	5 1/4" x 4 5/8" x 3 1/4"
BTG-KWM	Metal	-	5 1/4" x 4 5/8" x 3 1/4"
Regal			
BTG-RK	Clear Plastic	6 3/8" x 3 1/2" x 3"	6 3/8" x 3 1/2" x 3 1/4"
BTG-RWM	Metal	-	6 3/8" x 3 1/2" x 3 1/4"
Sentinal			
BTG-54VL	Metal Hinged	6 1/4" x 4 1/4" x 3 1/8"	-
BTG-54VLW	Metal Hinged	-	6" x 3 3/4" x 3 1/8"
F336	Replacement Key	Fits All Models	



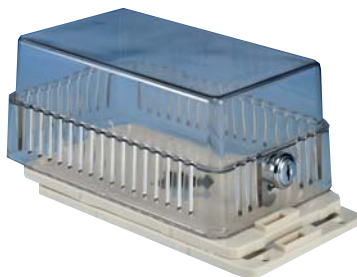
Universal Series



Elite Series



Classic Series



Regal Series



Sentinal Series



BTG-UN

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Belts

MULTI-PLUS DUAL BRAND V-BELTS

Clearly Identifying RMA Classic Part Number and Dimensionally Equivalent FHP Number, the Multi-plus Belt is Designed to Reduce Total V-Belt Investment.

- Consolidate Belts Sizes into a Single Belt Line
- Able to Handle Classic and FHP Drive Applications

“A” Section

Classical V Belts

- 1/2 inch top width
- 11/32 inch thick
- Dual brand A & 4L

“B” Section

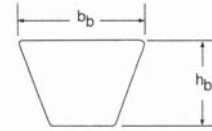
Classical V Belts

- 21/32 inch top width
- 13/32 inch thick
- Dual brand B & 5L

“BX” Section

Cogged Multiple V Belts

- 21/32 inch top width
- 13/32 inch thick



BELT SECTION (PITCH)	B (ANGLE)	BB (WIDTH)	HB (HEIGHT)
A	40°	.50 in	.31 in
B, BX	40°	.66 in	.41 in

PART NO.	CROSS to L's	APPROX. OUTSIDE LENGTH	PART NO.	CROSS to L's	APPROX. OUTSIDE LENGTH	PART NO.	CROSS to L's	APPROX. OUTSIDE LENGTH	PART NO.	CROSS to L's	APPROX. OUTSIDE LENGTH	PART NO.	CROSS to L's	APPROX. OUTSIDE LENGTH
A100	4L1020	102	A64	4L660	66	B44	5L470	47	B102		105	BX65		68
A105		107	A65	4L670	67	B45	5L480	48	B104		107	BX66		69
A110		112	A66	4L680	68	B46	5L490	49	B105		108	BX67		70
A112		114	A67	4L690	69	B47	5L500	50	B106		109	BX70		73
A116		118	A68	4L700	70	B48	5L510	51	B107		110	BX71		74
A120		122	A69	4L710	71	B49	5L520	52	B110		113	BX75		78
A124		126	A70	4L720	72	B50	5L530	53	B111		114	BX77		80
A128		130	A71	4L730	73	B51	5L540	54	B112		115	BX78		81
A136		138	A72	4L740	74	B52	5L550	55	B114		117	BX80		83
A144		146	A73	4L750	75	B53	5L560	56	B115		118	BX81		84
A158		160	A74	4L760	76	B54	5L570	57	B116		119	BX82		85
A19	4L210	21	A75	4L770	77	B55	5L580	58	B118		121	BX83		86
A20	4L220	22	A76	4L780	78	B56	5L590	59	B120		123	BX90		93
A21	4L230	23	A77	4L790	79	B57	5L600	60	B124		127	BX93		96
A22	4L240	24	A78	4L800	80	B58	5L610	61	B126		129	BX95		98
A23	4L250	25	A79	4L810	81	B59	5L620	62	B128		131	BX96		99
A24	4L260	26	A80	4L820	82	B60	5L630	63	B130		133	BX97		100
A25	4L270	27	A81	4L830	83	B61	5L640	64	B133		136	BX99		102
A26	4L280	28	A82	4L840	84	B62	5L650	65	B134		137	BX100		103
A27	4L290	29	A83	4L850	85	B63	5L660	66	B135		138	BX103		106
A28	4L300	30	A84	4L860	86	B64	5L670	67	B136		139	BX105		108
A29	4L310	31	A85	4L870	87	B65	5L680	68	B140		143	BX112		115
A30	4L320	32	A86	4L880	88	B66	5L690	69	B144		147	BX116		119
A31	4L330	33	A87	4L890	89	B67	5L700	70	B152		155	BX120		123
A32	4L340	34	A88	4L900	90	B68	5L710	71	B158		161	BX124		127
A33	4L350	35	A89	4L910	91	B69	5L720	72	B162		165	BX128		131
A34	4L360	36	A90	4L920	92	B70	5L730	73	B195		198	BX133		135
A35	4L370	37	A91	4L930	93	B71	5L740	74	B210		213	BX136		139
A36	4L380	38	A92	4L940	94	B72	5L750	75	B225		227	BX144		147
A37	4L390	39	A93	4L950	95	B73	5L760	76	B240		242	BX150		153
A38	4L400	40	A94	4L960	96	B74	5L770	77	B255		257	BX158		161
A39	4L410	41	A95	4L970	97	B75	5L780	78	B270		272	BX162		163
A40	4L420	42	A96	4L980	98	B76	5L790	79	B285		287	BX173		176
A41	4L430	43	A97	4L990	99	B77	5L800	80	B300		302	BX180		183
A42	4L440	44	A98	4L1000	100	B78	5L810	81	B315		317	BX195		198
A43	4L450	45	A99	4L1010	101	B79	5L820	82	B330		332	BX210		213
A44	4L460	46	B23	5L260	26	B80	5L830	83	B360		362	BX225		226.5
A45	4L470	47	B24	5L270	27	B81	5L840	84	BX35		38	BX240		241.5
A46	4L480	48	B25	5L280	28	B82	5L850	85	BX36		39	BX255		256.5
A47	4L490	49	B26	5L290	29	B83	5L860	86	BX37		40	BX270		271.5
A48	4L500	50	B27	5L300	30	B85	5L880	88	BX38		41	BX300		301.5
A49	4L510	51	B28	5L310	31	B86	5L890	89	BX42		45	AX56		58
A50	4L520	52	B29	5L320	32	B87	5L900	90	BX43		46			
A51	4L530	53	B30	5L330	33	B88	5L910	91	BX46		49			
A52	4L540	54	B31	5L340	34	B89	5L920	92	BX48		51			
A53	4L550	55	B32	5L350	35	B90	5L930	93	BX50		53			
A54	4L560	56	B33	5L360	36	B91	5L940	94	BX51		54			
A55	4L570	57	B34	5L370	37	B92	5L950	95	BX53		56			
A56	4L580	58	B35	5L380	38	B93	5L960	96	BX55		58			
A57	4L590	59	B36	5L390	39	B94	5L970	97	BX56		59			
A58	4L600	60	B37	5L400	40	B95	5L980	98	BX57		60			
A59	4L610	61	B38	5L410	41	B96	5L990	99	BX58		61			
A60	4L620	62	B39	5L420	42	B97	5L1000	100	BX59		62			
A61	4L630	63	B40	5L430	43	B98	5L1010	101	BX60		63			
A62	4L640	64	B41	5L440	44	B99	5L1020	102	BX61		64			
A63	4L650	65	B42	5L450	45	B101		104	BX62		65			
			B43	5L460	46				BX63		66			

Installation and Service Products

LIL POPPER

Control Board Circuit Breaker

- Temporary Fix for Control Board Fuses
- Stay Up and Running While Servicing Unit
- Includes Quick Setting Thermal Cutout

PART NO.	DESCRIPTION
POP3	3 Amp Breaker
POP5	5 Amp Breaker



ZIPEZ

INSULATION FASTENERS

The Fast, Easy, Permanent, Professional, Revolutionary way to Attach Duct Wrap and Reflective Insulation. ZIPEZ All-Purpose Fasteners' Unique Design Provides Fast and Easy One-Handed Installation.

- Fast & Easy-To-Use - No Special Tools Necessary
- Permanent Holding Power - Use Sheet Metal Screw
- Will Not Lose Holding Power - Even During Extreme Hot or Cold Temperatures
- Plenum-Rated to UL Standard 2043, 2nd Edition
- Increase Productivity
- Professional Appearance



MADE IN THE USA



DUCT BLASTER TESTED



ECAP321 HIGH EFFICIENCY PVC FLUE CAP

The Affordable Approach to Flue Pipe Problems Starts at the Top! The ECAP321 PVC Flue Cap Protects Today's High Efficiency Furnaces from Dirt, Moisture and Other Debris.

- Protection for High Efficiency Furnaces
- Universal Flue Cap Fits 1.5", 2" and 3" PVC Pipe
- Reduces Draft Inducer Motor Rust
- Helps to Eliminate Pressure Switch Service Calls
- Resistant to UV Radiation and Oxidative Degradation



UHS

Universal Humidifier Solenoid Valve Replacement Kits

- Each Kit Includes Solenoid Valve, Mounting Bracket and All Fittings to Remove and Replace the Existing Solenoid Valve
- Easy "Wrench-in" Installation
- Adjustable Water Flow Valve
- Time Saving
- Universal Replacement Reduces Inventory
- Economically Priced Compared to OEM Versions

PART NO.	VOLTAGE
UHS24	24 V
UHS120	120 V



UHS24 REPLACES	UHS120 REPLACES
Aprilaire® 4040	Aprilaire® 4005
General® 990-53	General® 990-52
Honeywell® 320016939-002	
Skuttle® A01-0814-148	

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Installation and Service Products

EL10

Easy Leveler Furnace Legs

- Four Sturdy Bolt-adjusted Leg Extensions
- Mounting Hardware Included
- Adjustments Made with Standard Wrench



FSKEY

Furnace Switch Key

- Simplifies Repair Preparation
- Easily Inserted and Removed
- Made of Durable Thermoplastic
- Store on Key Ring if Desired



*200/Jar

MAGJUMPER®

- 30 VAC/VDC 5 Amps Maximum
- Ideal for Low Voltage Troubleshooting for Recessed Terminals
- Thermostats
- Control Boards
- Sensors
- Switches

Available in 5 Colors

PART NO.	COLOR
MAG1YL	Yellow
MAG1GR	Green
MAG1BL	Blue
MAG1BK	Black
MAG1RD	Red



NEOPRENE AIR TUBING

- Temperature Range: 0°F to 160°F (-17°C to 71°C)
- Pressure Range: -20 to 20 in. W.C.

PART NO.	DIMENSIONS	LENGTH
SNAT3165	3/16" ID	5 ft.
SNAT316100	3/16" ID	100 ft.
SNAT185	1/8" ID	5 ft.



SILICONE AIR TUBING

- NSF 51, Soft, Red
- Temperature Range: -100°F to 500°F (-73°C to 260°C)
- 5 Foot Rolls

PART NO.	DIMENSIONS	WORKING PRESSURE	BURST PRESSURE
SSRT185	1/8" ID x 5/16" OD	25 psi	75 psi
SSRT3165	3/16" ID x 5/16" OD	20 psi	60 psi
SSRT145	1/4" ID x 3/8" OD	5 psi	15 psi



TR10

Teflon O-Ring Kit

- Package of 12 O-Rings
- 3 of Each Size

OD SIZE	ID SIZE
9/16"	7/16"
3/4"	5/8"
1"	7/8"
1 1/2"	1 3/8"



GB10

Finny's Gasket Book

- Replacements for Gaskets in Expansion and Solenoid Valves and Pumps
- 36 Different Gaskets Replace Most Common Gaskets Used Today
- Garlock Material Replaces All Older Materials



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Installation and Service Products

HVAC STRAP™ HVAC MANIFOLD HANGER

Attaches Quickly and Easily to the Manifold Gauge, and its Magnet Allows the Technician to Hang the Gauge Almost Anywhere. Constructed from Heavy-Duty Woven Material, Coated, Metal Magnet.

- Safety (No High Voltage Near Gauges)
- Decreased Work Time (Put Gauges Where You Want Them)
- Non-Damaging to the Unit (Coated so it Won't Scratch or Damage)
- Increased Readability



MB55 MOTOR BRACKET MOUNTING KIT - 3 LEGS

- Designed For Direct Drive Blower Motors Using the Flexible Bracket Mounting Arrangement
- Grommets & Eyelets Included

Specifications

Motor Diameter	5", Bolt Circle 9" & 10.18"
Motor Diameter	5.5", Bolt Circle 9" & 10.18"



MB554 MOTOR BRACKET MOUNTING KIT - 4 LEGS

- Flexible Bracket
- Grommets & Sleeves Included

Specifications

Motor Diameter	5", Bolt Circle 9" & 10.18"
Motor Diameter	5.5", Bolt Circle 9" & 10.18"



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Refrigeration Relays, Overloads and Hard Starts

URCO UNIVERSAL SERIES RELAY CAPACITOR OVERLOAD

For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Relay, Capacitor and Overload
- Works on RSIR, CSIR, PSC & CSR Compressors
- Available in Popular Sizes, Ranging from 1/12 hp to 1/2 hp
- “Push-On” Compressor Terminals and 1/4” Capacitor Terminals
- Designed for Modern High Efficiency Compressors
- Helps Older Compressors to Start and Run Cooler
- Easy Mount Clip for Quick Installation
- Easy to Read Instructions
- Prevents Low Voltage Starting Problems



PART NO.	HP RATING	VOLTS	CONTINUOUS RUNNING AMPS
URCO210	1/3 to 1/2	115	13.3
URCO410	1/4 to 1/3	115	6.8
URCO810	1/12 to 1/5	115	4.05

URCORC SERIES UNIVERSAL 4 ‘N 1 RELAY CAPACITOR, OVERLOAD AND RUN CAPACITOR

For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Same Features and Benefits of the Universal Series
- Adds a Closely Matched System Run Capacitor



PART NO.	HP RATING	RUN CAPACITOR SIZE μ FD	VOLTS	CONTINUOUS RUNNING AMPS
URCO210RC	1/3 to 1/2	20	115	13.3
URCO410RC	1/4 to 1/3	15	115	6.8
URCO810RC	1/12 to 1/5	12.5	115	4.05

URO SERIES UNIVERSAL RELAY OVERLOAD

For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Relay and Overload
- Works on “RSIR”, “CSIR”, “PSC” & “CSR” Compressors
- Locked Rotor Protection, Eliminates Start Winding Overheating
- Available in Popular Sizes, Ranging from 1/12 hp to 1/2 hp
- “Snap-On” Bracket for Easy Mounting
- Quick and Easy Installation
- Wiring Instructions on the Package
- Instructions on Adding a Start Capacitor And/Or Run Capacitor
- Wire Leads for Those Odd Installations, Wire Nuts Included



PART NO.	HP RATING	VOLTS
URO41	1/4 to 1/3	115
URO81	1/12 to 1/5	115

Refrigeration Relays, Overloads and Hard Starts

UPRO SERIES PUSH-ON RELAY

For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Relay and Overload
- Works on RSIR, CSIR, PSC & CSR Compressors
- Available in Popular Sizes, Ranging from 1/12 hp to 1/2 hp
- “Push-On” Relay Overload
- Quick Connect Push-On Terminals for Run And/Or Start Capacitor
- Wiring Instructions on the Package
- Instructions for Adding a Start Capacitor And/Or Run Capacitor



PART NO.	HP RATING	VOLTS
UPRO21	1/3 to 1/2	115
UPRO41	1/4 to 1/3	115
UPRO81	1/12 to 1/5	115

URSC SERIES RELAY START CAPACITOR

For Refrigeration Systems With or Without Run Capacitors. Maintain a High Efficiency System or Save an Old System.

- Replaces Current-Type Relays
- Works on RSIR, CSIR, PSC & CSR Compressors
- Provides a Boost for Hard Start and Unbalanced Systems
- No Additional Wires Required

PART NO.	HP RATING	VOLTS
URSC10	1/20 to 1/2	115
URSC20	1/20 to 1/2	220



RCO SERIES 3 'N 1 RELAY, OVERLOAD AND START CAPACITOR COMBINATION

For Refrigeration Systems Without Run Capacitors.

- Replaces Relay, Overload and Provides a Boost for Hard Start and Unbalanced Systems
- Prevents Low Voltage Starting Problems

PART NO	MOUNTING	START HP RATING	VOLTAGE (VAC)	CONTINUOUS RUNNING AMPS	TRIP IN CURRENT AFTER 6-16 SEC. (AMPS)
RCO210	Quick Connect	1/2	115	13.3	12
RCO410	Quick Connect	1/4 to 1/3	115	6.8	22
RCO810	Quick Connect	1/12 to 1/5	115	4.05	12
RCO220	Quick Connect	1/2	230	7.5	22
RCO420	Quick Connect	1/4 to 1/3	230	4.05	12
RCO620	Quick Connect	1/6 to 1/5	230	1.66	6
RCO820	Quick Connect	1/12 to 1/8	230	1.66	6





Refrigeration Relays, Overloads and Hard Starts

RO & PRO SERIES RELAY AND OVERLOAD COMBINATIONS

For Refrigeration Systems Without Run Capacitors.

- RO Series Features “Snap-On” Bracket
- PRO Series Installs on “Pin-Type” Terminal
- Locked Rotor Protection Eliminates Start Winding Overheating
- Can be Used With and Without Start Capacitor



PART NO	MOUNTING	HP RATING	VOLTAGE (VAC)	FULL LOAD AMPS	TRIP IN CURRENT AFTER 6-16 SEC. (AMPS)
R041	Quick Connect	1/4 to 1/3	115	6.8	22
R081	Quick Connect	1/12 to 1/5	115	4.05	12
PRO41	Push On	1/4 to 1/3	115	6.8	22
PRO81	Push On	1/12 to 1/5	115	4.05	12
R042	Quick Connect	1/4 to 1/5	230	4.05	12
R062	Quick Connect	1/6 to 1/5	230	1.66	6
R082	Quick Connect	1/12 to 1/8	230	1.66	6
PRO22	Push-On	1/2 to 2/3	230	7.5	22
PRO42	Push-On	1/4 to 1/3	230	4.05	12
PRO62	Push-On	1/6 to 1/5	230	1.66	6
PRO82	Push-On	1/12 to 1/8	230	1.66	6

ICG & PO SERIES RELAYS

For Refrigeration Systems Without Run Capacitors.

- ICG Series Features a “Snap-On” Bracket
- PO Series Installs on Compressors with “Pin-Type” Terminals
- Fastest Cool Down Time of Any Solid State Relays
- Can be Used With or Without Start Capacitor

PART NO	MOUNTING	HP RATING	VOLTAGE (VAC)
ICG1	Quick Connect	1/12 to 1/2	115
ICG-220	Quick Connect	1/12 to 1/2	230
P0115	Push-On	1/12 to 1/2	115
P0230	Push-On	1/12 to 1/2	230



SS410 SUPER START RELAY OVERLOAD COMBINATION

For Refrigeration Systems Without Run Capacitors.

- Equipped with an Electro-Mechanical Relay, Locked Rotor Protector and a 255 µF Start Capacitor
- Increases Torque to its Maximum Capacity

PART NO	MOUNTING	HP RATING	VOLTAGE (VAC)
SS410	Quick Connect	1/4 to 1/3	115



IC SERIES

IC100

For Refrigeration Systems With or Without Run Capacitors.

- 120 Volt PTC Relay Replaces Current Relays and Solid State Relays From 1/20 to 1/3 HP
- Can Be Used in Any Position
- Used on Over 10,000 Models



IC102

For Refrigeration Systems With or Without Run Capacitors.

- 120 Volt PTC Relay Replaces Current Relays and Solid State Relays From 1/20 to 1/3 HP
- Can Be Used in Any Position
- Used on Over 10,000 Models



REFRIGERATION

Refrigeration Relays, Overloads and Hard Starts

OL SERIES DIRECT REPLACEMENT OVERLOADS

- Direct Replacements for Numerous OEM's
- Use OL Series Overloads with IC Series, PO Series and UR115



PART NO.	RELAY	OVERLOAD	HORSEPOWER	VAC	# OF TERMINALS	COMPRESSOR CONNECTIONS	CAPATIBLE	REPLACES
IC100	*	----	1/12 to 1/3	120	2	2	YES	2165943, WR7X194
IC102	*	----	1/2 to 1/3	120	3	2	YES	5303007173, WR7X240
OL1	----	*	1/5 to 1/4	120/240	1	1	----	5303299560, 216100110
OL2	----	*	1/4 to 1/3+	120/240	1	1	----	5303270406, WR8X122
OL3	----	*	1/6 to 1/5	120/240	1	1	----	5303276514
OL4	----	*	1/4 to 1/3	120/240	1	1	----	5303206885, 2154945

* IC100, IC102 replaces PON

OLK1786 COMPRESSOR START DEVICE KIT

Relay and Overload Kit can Replace 8201786, also used on Kenmore®, Whirlpool®, KitchenAid® and Roper® Refrigerators, Plus Other Brands Manufactured by Whirlpool®.



OLK7535 OVERLOAD RELAY KIT SXS

OLK Series Relay & Overload Kit Can Be Used as a Direct Replacement on Several Whirlpool®, Roper®, Estate®, KitchenAid®, Maytag® and Magic Chef® Models.

- Can Be Used With or Without a Run Capacitor
- Energy Saving Plastic Construction
- Domestic Refrigerators and Freezers
- 120 VAC Applications
- Replaces Over 2,300 Models



OLK7913 OVERLOAD RELAY

- Direct Replacement for 2,400 Whirlpool® Models
- Universal Replacement on Over 10,000 Models, as a Universal Relay Overload Kit
- Can Be Used With or Without a Capacitor
- 120 VAC



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Refrigeration Relays, Overloads and Hard Starts

OV SERIES UNIVERSAL REPLACEMENT MOTOR PROTECTORS

- Built in Temperature Activated Disc Opens and Closes the Motor Overload Protector's Contacts
- Excessive Heat Generated by the Compressor, Motor or Crankcase Heater will Open the Contacts to Help Protect the Equipment from Serious Damage or Burnout
- UL and CSA Approved



OVKIT OVERLOAD KIT

- Contains One of Each Overload (10 Total)

PART NO.	LOCKED ROTOR AMPS										GEM® NO.	MARS® NO.		
	12.0	13.5	1/20	1/1	1/10	1/8	1/6	1/5	1/4	1/3			1/2	3/4
OV32	12.0	13.5	•	•									MP359	35004
OV34	14.0	15.5		•	•	•	•	•					MP358	35007
OV36	16.0	18.0			•	•	•	•					MP357	35009
OV38	18.5	22.0			•	•	•	•	•				MP354	35010
OV40	22.5	26.5					•	•	•				MP360	35011
OV42	27.0	31.0					•	•	•				MP355	35012
OV44	31.5	35.5								•	•		MP361	35017
OV46	36.0	40.0								•	•	•	MP352	35018
OV48	40.5	44.5								•	•	•	MP351	35019
OV50	45.0	49.0									•	•	MP362	35020

PART NO.	LOCKED ROTOR AMPS													GEM® NO.	MARS® NO.	
	12.0	13.5	1/10	1/8	1/6	1/5	1/4	1/4+	1/3	1/3+	1/2	1/2+	3/4			1
OV32	12.0	13.5	•	•	•	•	•	•	•						MP359	35004
OV34	14.0	15.5	•	•	•	•	•	•	•						MP358	35007
OV36	16.0	18.0				•	•	•	•	•					MP357	35009
OV38	18.5	22.0				•	•	•	•	•	•				MP354	35010
OV40	22.5	26.5						•	•	•	•	•	•	•	MP360	35011
OV42	27.0	31.0						•	•	•	•	•	•	•	MP355	35012
OV44	31.5	35.5										•	•	•	MP361	35017
OV46	36.0	40.0										•	•	•	MP352	35018
OV48	40.5	44.5										•	•	•	MP351	35019
OV50	45.0	49.0											•	•	MP362	35020

This application guide is offered as a guide only when no other information is available. The application will vary with compressor manufacturer's systems and condenser applications (static, fan, and water cooled, etc.) Other factors include refrigerant, motor type, and efficiency.

Capillary Tubing

BC SERIES BULLET® RESTRICTO CAPILLARY TUBING

Fits ANY Domestic and Commercial Refrigerator, Freezer or Application. Air Conditioner from 1/8 hp to 5 hp.

- Precision Bore, Plus or Minus .001”
- Specification: ASTM B360
- Terminations: RC, RH, W, Y, G, O, B



Standard Service Packs

OLD PART NO.	NEW PART NO.	LENGTH (FT.)	DESCRIPTION
	BC26X16	16	.026 ID X .071 OD
BC5	BC28X10	10	.028 ID X .071 OD
BC1	BC31X10	10	.031 ID X .081 OD
	BC36X12	12	.036 ID X .086 OD
BC2	BC40X12	12	.040 ID X .093 OD
	BC42X12	12	.042 ID X .093 OD
	BC44X12	12	.044 ID X .093 OD
	BC46X12	12	.046 ID X .093 OD
	BC49X11	11	.049 ID X .093 OD
	BC50X11	11	.050 ID X .093 OD
BC3	BC52X12	12	.052 ID X .093 OD
	BC54X11	11	.054 ID X .106 OD
	BC55X11	11	.055 ID X .112 OD
	BC59X10	10	.059 ID X .112 OD
BC4	BC64X12	12	.064 ID X .125 OD
	BC70X12	12	.070 ID X .125 OD
	BC75X9	9	.075 ID X .125 OD
	BC80X10	10	.080 ID X .145 OD
	BC85X9	9	.085 ID X .145 OD
	BC90X7	7	.090 ID X .145 OD

100 Foot Bulk Packs

OLD PART NO.	NEW PART NO.	LENGTH (FT.)	DESCRIPTION
	BC26X100	100	.026 ID X .071 OD
BC5-100	BC28X100	100	.028 ID X .071 OD
BC1-100	BC31X100	100	.031 ID X .081 OD
	BC36X100	100	.036 ID X .086 OD
BC2-100	BC40X100	100	.040 ID X .093 OD
	BC42X100	100	.042 ID X .093 OD
	BC44X100	100	.044 ID X .093 OD
	BC46X100	100	.046 ID X .093 OD
	BC49X100	100	.049 ID X .093 OD
	BC50X100	100	.050 ID X .093 OD
BC3-100	BC52X100	100	.052 ID X .093 OD
	BC54X100	100	.054 ID X .106 OD
	BC55X100	100	.055 ID X .112 OD
	BC59X100	100	.059 ID X .112 OD
BC4-100	BC64X100	100	.064 ID X .125 OD
	BC70X100	100	.070 ID X .125 OD
	BC75X100	100	.075 ID X .125 OD
	BC80X100	100	.080 ID X .145 OD
	BC85X100	100	.085 ID X .145 OD
	BC90X100	100	.090 ID X .145 OD

Part Number Key

BC46X12

Bullet Capillary Tubing

Inner Diameter (in.)

Length (ft.)

REFRIGERATION

Capillary Tubing

Conversion Chart (0.024 I.D. inches to 0.80 I.D inches)

Part No.	BC5		BC1		BC2				BC3				BC4							
	BC26	BC28	BC31	BC36	BC40	BC42	BC44	BC46	BC49	BC50	BC52	BC54	BC55	BC59	BC64	BC70	BC75	BC80	BC85	BC90
Tube I.D.	0.026	0.028	0.031	0.036	0.040	0.042	0.044	0.046	0.049	0.050	0.052	0.054	0.055	0.059	0.064	0.070	0.075	0.080	0.085	0.090
0.024	1.430	2.160	3.890																	
0.025	1.120	1.640	3.040																	
0.026	1.000	1.520	2.580																	
0.027	0.810	1.200	2.070																	
0.028	0.660	1.000	1.710	3.950																
0.029	0.560	0.840	1.440	3.300																
0.030	0.460	0.68	1.180	2.680																
0.031	0.390	0.595	1.000	2.260																
0.032	0.325	0.500	0.850	1.930	3.610															
0.033		0.435	0.680	1.642	3.520															
0.034		0.340	0.615	1.388	2.588															
0.035		0.300	0.525	1.185	2.210	2.930	3.934													
0.036		0.250	0.378	1.000	1.840	2.416	3.250	4.240												
0.037				0.856	1.569	2.072	2.761	3.530												
0.038				0.738	1.335	1.742	2.329	2.974												
0.039				0.645	1.164	1.526	2.014	2.570	3.835											
0.040				0.551	1.000	1.306	1.741	2.242	3.275	3.749										
0.041				0.479	0.866	1.149	1.509	1.927	2.816	3.240										
0.042				0.416	0.760	1.000	1.302	1.681	2.417	2.740	3.535									
0.043				0.362	0.665	0.870	1.153	1.472	2.109	2.388	3.047									
0.044				0.311	0.583	0.768	1.000	1.277	1.820	2.063	2.606	3.470								
0.045				0.270	0.507	0.669	0.878	1.121	1.612	1.827	2.293	3.025								
0.046				0.236	0.446	0.595	0.783	1.000	1.410	1.600	2.021	2.640	2.985							
0.047					0.378	0.531	0.700	0.889	1.250	1.415	1.760	2.313	2.624	4.157						
0.048					0.345	0.468	0.617	0.788	1.114	1.254	1.566	2.040	2.305	3.653						
0.049					0.298	0.415	0.551	0.709	1.000	1.123	1.390	1.811	2.026	3.115						
0.050					0.257	0.375	0.484	0.625	0.891	1.000	1.156	1.613	1.809	2.843						
0.051						0.322	0.431	0.550	0.795	0.892	1.107	1.425	1.598	2.453						
0.052						0.287	0.385	0.495	0.720	0.807	1.000	1.280	1.435	2.215	3.907					
0.053							0.317	0.405	0.625	0.709	0.881	1.135	1.229	1.935	3.261					
0.054							0.290	0.379	0.570	0.620	0.779	1.000	1.086	1.703	2.950					
0.055							0.254	0.335	0.500	0.559	0.699	0.900	1.000	1.517	2.586					
0.056									0.443	0.500	0.634	0.806	0.924	1.379	2.330					
0.057									0.393	0.445	0.564	0.720	0.809	1.236	2.084					
0.058									0.343	0.395	0.499	0.650	0.729	1.103	1.867					
0.059									0.350	0.350	0.446	0.580	0.647	1.000	1.675	2.862				
0.060									0.290	0.308	0.394	0.513	0.573	0.893	1.463	2.475				
0.061									0.270	0.347	0.450	0.514	0.802	1.310	2.210					
0.062										0.310	0.411	0.465	0.723	1.189	2.000	3.201				
0.063												0.373	0.423	0.659	1.093	1.817	2.872			
0.064												0.336	0.383	0.604	1.000	1.646	2.575			
0.065													0.353	0.560	0.910	1.522	2.389			
0.066													0.326	0.519	0.864	1.412	2.198			
0.067														0.468	0.779	1.270	1.994			
0.068														0.424	0.713	1.166	1.809			
0.069														0.388	0.660	1.086	1.687			
0.070														0.351	0.603	1.000	1.544	2.303	2.400	3.190
0.071															0.547	0.918	1.397	2.071	2.240	2.960
0.072															0.503	0.849	1.287	1.910	2.100	2.775
0.073															0.464	0.789	1.189	1.766	1.970	2.600
0.074															0.419	0.737	1.104	1.624	1.850	2.450
0.075															0.381	0.692	1.000	1.470	1.750	2.318
0.076															0.344	0.592	0.912	1.335	1.650	2.140
0.077															0.316	0.548	0.838	1.235	1.550	1.980
0.078															0.293	0.510	0.775	1.151	1.460	1.840
0.079															0.476	0.721	1.069	1.389	1.720	
0.080															0.448	0.680	1.000	1.320	1.610	

For best results use conversion factors in the shaded areas.

REFRIGERATION

Capillary Tubing

REFRIGERATION

Conversion Chart Continued (0.81 to 0.100 inches)																				
Part No.	BC5		BC1		BC2						BC3				BC4					
	BC26	BC28	BC31	BC36	BC40	BC42	BC44	BC46	BC49	BC50	BC52	BC54	BC55	BC59	BC64	BC70	BC75	BC80	BC85	BC90
Tube I.D.	0.026	0.028	0.031	0.036	0.040	0.042	0.044	0.046	0.049	0.050	0.052	0.054	0.055	0.059	0.064	0.070	0.075	0.080	0.085	0.090
0.081																	0.632	0.943	1.240	1.545
0.082																	0.596	0.885	1.170	1.484
0.083																	0.564	0.840	1.109	1.420
0.084																	0.536	0.795	1.052	1.370
0.085																	0.510	0.760	1.000	1.320
0.086																	0.482	0.715	0.945	1.234
0.087																	0.457	0.676	0.895	1.172
0.088																	0.434	0.655	0.850	1.110
0.089																	0.414	0.618	0.810	1.054
0.090																	0.395	0.585	0.775	1.000
0.091																	0.372	0.554	0.730	0.944
0.092																	0.351	0.526	0.690	0.892
0.093																	0.333	0.504	0.655	0.845
0.094																	0.316	0.480	0.620	0.804
0.095																		0.460	0.590	0.760
0.096																		0.435	0.565	0.731
0.097																		0.415	0.540	0.696
0.098																		0.395	0.510	0.659
0.099																		0.369	0.498	0.640
0.100																		0.362	0.477	0.616

For best results use conversion factors in the shaded areas.

Metric Conversion Chart (0.600 MM to 2.50 MM)																				
Part No.	BC5		BC1		BC2						BC3				BC4					
	BC26	BC28	BC31	BC36	BC40	BC42	BC44	BC46	BC49	BC50	BC52	BC54	BC55	BC59	BC64	BC70	BC75	BC80	BC85	BC90
Tube I.D.	0.026	0.028	0.031	0.036	0.040	0.042	0.044	0.046	0.049	0.050	0.052	0.054	0.055	0.059	0.064	0.070	0.075	0.080	0.085	0.090
0.600 mm	1.450	2.200	3.990																	
0.610 mm	1.425	2.155	3.840																	
0.635 mm	1.120	1.640	3.040																	
0.660 mm	1.000	1.520	2.580																	
0.700 mm	0.680	1.082	1.860																	
0.780 mm	0.410	0.623	1.046	2.630																
0.800 mm	0.364	0.545	0.951	2.110																
0.900 mm		0.276	0.487	1.085	2.100	2.653	3.540													
0.910 mm		0.265	0.455	1.029	2.000	2.600	3.337	4.261												
1.000 mm				0.593	1.076	1.408	1.753	2.239	3.597											
1.060 mm				0.435	0.815	1.036	1.410	1.801	2.497	2.840	3.651									
1.100 mm				0.332	0.620	0.817	1.101	1.405	2.005	2.273	2.893	3.831								
1.200 mm					0.359	0.496	0.675	0.862	1.215	1.372	1.707	2.239	2.538	4.019						
1.240 mm					0.304	0.421	0.560	0.715	1.018	1.145	1.420	1.840	2.062	3.199						
1.270 mm					0.257	0.375	0.484	0.618	0.891	1.000	1.156	1.613	1.809	2.843						
1.300 mm						0.300	0.419	0.535	0.765	0.875	1.086	1.398	1.567	2.404	4.299					
1.370 mm							0.300	0.383	0.580	0.625	0.785	1.005	1.094	1.716	2.955					
1.400 mm									0.495	0.546	0.689	0.889	0.990	1.499	2.551					
1.500 mm									0.330	0.343	0.439	0.570	0.638	0.990	1.662	2.836				
1.600 mm										0.282	0.375	0.424	0.660	1.094	1.820	2.875				
1.630 mm												0.374	0.593	0.985	1.623	2.568				
1.700 mm													0.288	0.472	0.785	1.279	2.005			
1.800 mm															0.554	0.928	1.415	2.105	2.251	3.000
1.900 mm															0.387	0.700	1.019	1.529	1.770	2.350
2.000 mm																0.485	0.734	1.090	1.400	1.750
2.100 mm																	0.574	0.855	1.120	1.435
2.160 mm																	0.508	0.755	0.987	1.296
2.200 mm																	0.466	0.690	0.915	1.198
2.300 mm																	0.382	0.585	0.760	0.986
2.400 mm																	0.309	0.470	0.605	0.784
2.500 mm																		0.385	0.505	0.649
2.540 mm																		0.362	0.477	0.616

All metric sizes are in millimeters, all replacement sizes are in inches.

Rev.04192013

For best results use conversion factors in the shaded areas.

Condensate Drain Pans



COMMERCIAL CONDENSATE EVAPORATOR PANS

For Condensate Applications where no Drain is Available. Choose from these Popular, Large Capacity Sized Pans. SUPCO® Commercial Refrigeration Condensate Evaporator Pans are Made from Top Quality Materials for Durable, Long Life.

- CP804-HD 20 Gauge Stainless Steel. All Others use 22 Gauge.
- Corrosion Resistant Stainless Steel Construction
- Positive Evaporation
- High Limit Safety and Float Switch Operation
- Available in 120 Volts, 208 Volts and 240 Volts
- 50/60 Hz
- Warranty - One Year from Date of Installation
- Space Saving
- Used in Supermarket Refrigeration Systems and Elevators
- These Pans are used for Water Dissipation ONLY! Do Not Operate Dry
- Clean the Pan and Check the Float Every 30 Days for Optimum Performance and Operation

Specifications

PART NO.	CAPACITY	VOLTS	WATTS	AMPS	DIMENSIONS		DISSIPATION RATE PER DAY	REPLACES
					L	W X H		
CP801	1 3/4 qt	120	400	3.3	10"	7" x 2 1/2"	3 Gallon	DM04T1S
CP802	2 1/2 qt	120	800	6.6	13"	7" x 2 1/2"	6 Gallon	DM08S1S
CP802-240	2 1/2 qt	240	800	3.3	13"	7" x 2 1/2"	6 Gallon	
CP804	4 1/2 qt	120	1000	8.34	13"	7" x 4"	10 Gallon	DM10MS1
CP804-240	4 1/2 qt	240	1000	4.17	13"	7" x 4"	6 Gallon	
CP804HD	7 1/2 qt	120	1000	8.34	13"	10" x 4"	6 Gallon	DM10W1D
CP804HD-240	7 1/2 qt	240	1000	4.17	13"	10" x 4"	6 Gallon	
CP807	7 1/2 qt	120	1000	8.34	13"	10" x 4"	10 Gallon	DM10W1S
CP807-240	7 1/2 qt	240	1000	4.8	13"	10" x 4"	10 Gallon	DM10W3
CP815	15 qt	120	1440	12	21"	13" x 4"	12 Gallon	DM15WW1D
CP815-240	15 qt	240	1500	6.28	21"	13" x 4"	12 Gallon	DM15WW3
CP816	7 qt	120	500	4.17	13"	10" x 4"	4.5 Gallon	DM05W1D
CP817	7 qt	208	1000	4.81	13"	10" x 4"	8 Gallon	DM10W2D
CP818	7 qt	208	1000	4.81	13"	10" x 4"	8 Gallon	DM10W2S
CP819	7 qt	120	1500	12.5	13"	10" x 4"	12 Gallon	DM15W1D
CP820	7 qt	208	1500	7.21	13"	10" x 4"	12 Gallon	DM15W2D
CP821	15 qt	208	1500	7.21	21"	13" x 4"	12 Gallon	DM15WW2D



Replacement Parts

PART NO.	FLOAT PART NO.	HEATER PART NO.	MICROSWITCH PART NO.	THERMOSTAT PART NO.
CP801	CPFLOAT	CPH801	CPS800	CPT800
CP802	CPFLOAT	CPH802	CPS800	CPT800
CP802-240	CPFLOAT	CPH802-240	CPS800	CPT800
CP804	CPFLOAT4	CPH8047	CPS800	CPT800
CP804-240	CPFLOAT4	CPH804-240	CPS800	CPT800
CP804HD	CPFLOAT4	CPH804HD	CPS800	CPT800
CP804HD-240	CPFLOAT4	CPH804HD-240	CPS800	CPT800
CP807	CPFLOAT4	CPH8047	CPS800	CPT800
CP807-240	CPFLOAT4	CPH807-240	CPS800	CPT800
CP815	CPFLOAT4	CPH815	CPS800	CPT800
CP815-240	CPFLOAT4	CPH815-240	CPS800	CPT800
CP816	CPFLOAT4	CPH816	CPS800	CPT800
CP817	CPFLOAT4	CPH817	CPS800	CPT800
CP818	CPFLOAT4	CPH818	CPS800	CPT800
CP819	CPFLOAT4	CPH819	CPS800	CPT800
CP820	CPFLOAT4	CPH820	CPS800	CPT800
CP821	CPFLOAT4	CPH821	CPS800	CPT800

REFRIGERATION

Condensate Drain Pans



REFRIGERATION

70 CONDENSATE DRAIN

Authorized, Cost Effective Replacement Drain for Most Commercial Refrigerators and Freezers.

- PTC Control Supplies Only Required Heat to Evaporate Water
- Thermostat and Float NOT Required
- Self Regulating
- Uniform Heating
- NSF, UL and CSA (where noted) Approved
- Die Cast Aluminum Eliminates Corrosion
- Removable Cord Set for Easy Cleaning
- Fast Evaporation Rate (6 oz./hour)
- Low Profile (3") to Fit Tight Spaces

PART NO.	CAPACITY	VOLTS	WATTS	AMPS	EVAPORATE	
					RATE	SIZE
70	50 oz	115	300	2.61	4.5 oz/hr	12 1/4" x 4 3/4" x 3"
70-220	50 oz	220	300	1.36	6 oz/hr	12 1/4" x 4 3/4" x 3"
70CSA*	50 oz	115	190	1.65	6 oz/hr	12 1/4" x 4 3/4" x 3"
70CSA220*	50 oz	220	190	.86	6 oz/hr	12 1/4" x 4 3/4" x 3"

*CSA indicates CSA approval. ** All are 50/60 HZ



30-OS, 31 & 75 CONDENSATE DRAINS

- Standard Cast Aluminum Condensate Drains Complete with Long Life Heating Element and Mounting Legs
- Designed for Continuous Use

PART NO.	CAPACITY	VOLTS	WATTS	AMPS	EVAPORATE	
					RATE	SIZE
30-OS*	38 oz	120	160	1.33	8 oz/hr	10" x 4" x 2 7/8"
30-220-OS*	38 oz	220	160	.73	8 oz/hr	10" x 4" x 2 7/8"
31	50 oz	120	160	1.33	6 oz/hr	10" x 4 1/2" x 3 3/8"
31-220	50 oz	220	160	.73	6 oz/hr	10" x 4 1/2" x 3 3/8"
75	75 oz	120	320	2.67	14 oz/hr	10" x 9" x 2 3/4"
75-220	75 oz	220	320	1.45	14 oz/hr	10" x 9" x 2 3/4"

* Indicates NSF listing ** All are 50/60 HZ



Wall Mount Brackets

PART NO.	CONDENSATE DRAIN NO.
30WM	30-OS Series, 75 Series
31WM	31 Series, 70 Series

Condensate Pumps

High Quality and Dependable Pump that is Designed to Remove Condensate Water from AC Systems, Heating Systems, Ice Machines, Drinking Fountains and Coolers.

CP1A SERIES

- 22 Feet of Standard Lift @ 10 GPH
- Independent N.C. Safety Switch & Motor Shuts Down AC System to Prevent Condensate Overflow
- Three 1/4" Quick Connect Terminals are Provided for Easy Connection
- Independent N.O. Audible Alarm Switch Rated @ 80dB
- Specially Designed Leak Free Motor & Safety Float
- 3/8" Rubber Ball Check Valve
- Vibration Absorbing Feet
- Metal Side Mount Tabs, 11-1/2" on Center Between Tabs
- 3 Inlet Holes
- Includes 6' Power Cord



Specifications

	CP1A	CP1A-230V
hp	1/10hp	1/10hp
Voltage	120 VAC	230 VAC
Watts	80W	75W
Amps	1.45A	0.72A
Hertz	60Hz	60Hz
Motor Overload Protector	Yes	Yes
Whole Pump Height (In.)	7 1/4"	7 1/4"
Whole Pump Length (In.)	11 1/4"	11 1/4"
Whole Pump Width (In.)	5"	5"
Tank Size	1/2 Gal.	1/2 Gal.
Discharge	3/8" Barb	3/8" Barb
Tank Material	ABS	ABS
Impeller Material	Glassfiber filled PP	Glassfiber filled PP
Float Material	Polypropylene	Polypropylene
Shaft Material	S.S.304	S.S.304
Max. Temp. (°F)	110	110
Alarm	80 dB	80 dB
Auto Off with Dry Contacts	Yes	Yes
Float Activated	Yes	Yes

Sequence of Operation

1. Pump Motor is Activated When More Than 2 1/4" of Water Collects in Tank
2. Pump Motor is Off when Less Than 1 1/4" of Water Collects in Tank
3. Pump Alarm on Safety Switch Opens When More Than 2 3/4" of Water Collects in Tank
4. Each Pump Cycle Drives 1/4 Gallon of Water Out of the Tank

Flow Rate Capacity

Lift Feet	1	5	10	15	20	22	24
GPH	99	87	69	48	20	10	0

JV1 JONES VALVE CONDENSATE DRAIN BLOW OUT VALVE

- Attaches to a CO2 or Nitrogen Tank
- Durable, Schedule 40 PVC Material
- Condensate Line Size: 3/4"
- Hose Connection Size: 1/4" Male Flare (with Schrader)
- U.S. Patent No. 8,375,977
- 1 Year Warranty
- 6 Pack Counter Display



Be prepared for imminent changes to ICC International Mechanical Code

307.2.5 cleanouts. Condensate drains shall be provided with a means to allow cleaning of the drain and clearing of blockages without having to cut or disassemble the piping.

Defrost Thermostats

SL SERIES

Exact Replacement, Commercial Refrigeration Thermostats

SL5708

- Surface Mount
- 2-wire Heater Limit
- SPST
- Resistive Amps: 25
- Volts AC: 120/240

PART NO.	OPEN (°F)	CLOSE (°F)	MOUNT	REPLACES
SL5708	75	40	Surface	Bohn®, Larkin®, Chandler®, Climate Control® 5708L & 4752C



SL5709

- Surface Mount
- 3-wire Fan and Defrost Terminator 55°F-35°F Range
- SPDT
- Resistive Amps: 25
- Volts AC: 120/240

PART NO.	OPEN (°F)	CLOSE (°F)	MOUNT	REPLACES
SL5709	55	35	Surface	Bohn®, Larkin®, Chandler®, Climate Control® 5709L & 4751C



SL79002

- Tube Mount (5/8")
- 3-wire Defrost Control
- SPDT
- Resistive Amps: 25
- Volts AC: 120/240

PART NO.	OPEN (°F)	CLOSE (°F)	MOUNT	REPLACES
SL79002	55	35	Tube	Russell® 103079002



SL79005

- Surface Mount
- 3-wire Defrost Control
- SPDT
- Resistive Amps: 25
- Volts AC: 120/240

PART NO.	OPEN (°F)	CLOSE (°F)	MOUNT	REPLACES
SL79005	65	30	Surface	Russell® 103079005



SL25581

- Tube Mount
- 2 Wire
- Open: 45°F (7.4°C)
- Close: 18°F (-7.8°C)
- Can Be Used on Whirlpool®, Admiral®, Amana®, Crosley®, Estate®, Jenn-Aire®, Kenmore®, Kitchen-Aide®, Magic Chef®, Maytag® and Roper®



ML SERIES

- Metal Case with Waterproof Epoxy Potting
- Heavy Duty Rating 10 Amps @ 120 Volts / 5 Amps @ 240 Volts
- Residential and Commercial Applications
- Switching is SPST
- Up To 1200 Watts

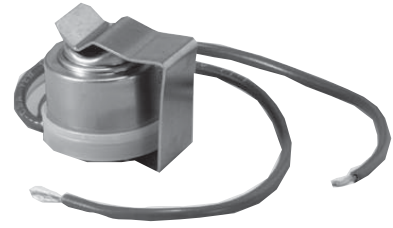
PART NO.	OPEN °F	CLOSE °F	DIFF. °F	MARS®	UNILINE®
ML37	37	47	10
ML45	45	25	20	33008	31-00117001
ML50	50	30	20	33009	31-00217003
ML55	55	35	20	33010	31-00317005
ML60	60	40	20	33011	31-00417007
ML70	70	50	20	33012	31-00517009
ML80	80	30	50	33020	31-00617011
ML90	90	35	55	33021	31-00717013



Defrost Thermostats

SLT SERIES

- Metal Case with Waterproof Epoxy Potting
- Heavy Duty Rating 10 Amps @ 120 Volts / 5 Amps @ 240 Volts
- Residential and Commercial Applications
- Switching is SPST
- Rated Up To 1200 Watts
- Tube Mounting Clip Attached to Thermostat



PART NO.	OPEN °F	CLOSE °F	DIFF. °F
SLT45	22	45	23
SLT50	10	50	40
SLT55	25	55	30
SLT60	30	60	30

MOUNTING CLIPS

PART NO.	STYLE
SL243	Surface / Flush Mounting Clip
SL245	Push In Mounting Clip
SL247	5/16" or 3/8" Around Tube Clip
SL249	Side Push on Tube Clip

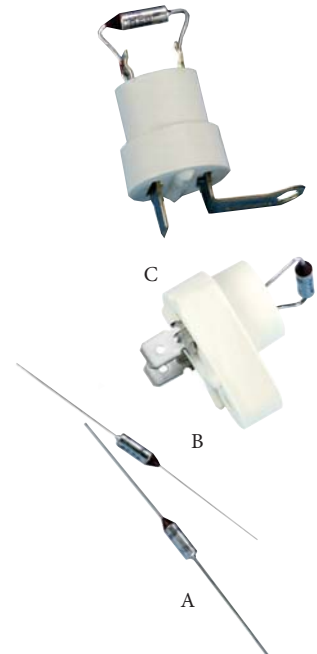


THERMAL CUT OFFS

PART NO. 15 AMP SERIES 1	PART NO. 25 AMP SERIES 2	OPEN TEMP. °C	OPEN TEMP. °F	STYLE
	STC8170	77	170	A
STC4183		84	183	A
STC4199		93	199	A
STC4228		109	228	A
	STC8242	117	242	A
STC4257	STC8257	125	257	A
STC4283	STC8283	139	283	A
STC4300		149	300	A
STC4333		167	333	A

PART NO. 15 AMP SERIES 1	PART NO. 25 Amp SERIES 2	OPEN TEMP. °C	OPEN TEMP. °F	STYLE
STC4358		184	363	A
STC4438		226	438	A
STC4468	STC8468	242	468	A
STC5257		125	257	B
	STC85283	139	283	B
STC5300		149	300	B
STC5333		167	333	B
STC5377		192	377	B
STC6257	STC86257	125	257	C
	STC86283	139	283	C
STC6300		149	300	C
STC6333		167	333	C
STC6377	STC86377	192	377	C

Series 1 Maximum Wattage 1800W @ 120V/2400W @ 240
 Series 2 Maximum Wattage 1800W @ 120V/6000W @ 240



PART NO.	TERMINALS	°C	°F	STYLE
STF4170	QC. 1/4"	77	170	36T
STF4183	QC. 1/4"	84	183	36T
STF4230	QC. 1/4"	110	230	36T

PART NO.	TERMINALS	°C	°F	STYLE
STF4249B	QC. 3/16"	121	249	36T
STF4291B	QC. 3/16"	144	291	36T
STF4305B	QC. 3/16"	152	305	36T

Maximum Wattage 1800W @ 120V/2400W @ 240

36T Electrical Ratings

VOLTS (VAC)	Resistive (Non-Inductive)	Motor Rating (Inductive)		Pilot Duty
		Full Load	Locked Rotor	
120	15A	3A	12A	125 VA
240	10A	1.5A	6A	125 VA

350°F Max Ambient Temperature



Valves & Fittings

BPV SERIES BULLET® PIERCING VALVES

The ONLY Valve with a Permanent Type,
Patented Gasket Application!

- Patented Valve Gasket Application Provides 50 Times More Sealing Area than Competitive “O” Ring Types
- A Sealing Force of Over 180 Inch lbs., Torque Tested with 500 lbs., Pressure Tested at 250°F
- Precision Piercing Needle is Engineered for Concentricity and Hardness to Insure Perfect Seating Every Time
- Nonpositional Mounting - No Adapter Valve Required
- Requires Only a 2” Clearance Area for Installation and Operation
- Hex Key Wrench Included - No Additional Tools Required
- Corrosion Resistant Plated

PART NO.	O.D. TUBING SIZE	PACKAGING
BPV31*	1/4", 5/16", 3/8"	12/Box
BPV31D*	1/4", 5/16", 3/8"	48/Box
BPV21*	1/2", 5/8"	8/Box
BPV36	3/16"	12/Box
BPV14	1/4"	12/Box
BPV56	5/16"	12/Box
BPV38	3/8"	12/Box
BPV12	1/2"	8/Box
BPV58	5/8"	8/Box
BPV34	3/4"	1/Box
BPV78	7/8"	1/Box



*NOTE: BPV31 and BPV21 are furnished with adapter sleeves for indicated multiple use applications.

A1 & A2 ADJUSTABLE LINE TAP VALVES

Signature Series of Clamp-On Line Tap Valves Provide Easy Access to System Refrigerant Without Having to Evacuate System.

- Patent Depressor Valve Action
- Mounts in Any Position
- Retracting Needle for Maximum Flow
- Designed for Permanent Use on System
- Hex Wrench and Adapter Sleeves Included

PART NO.	TUBE SIZE OD (IN.)
A1	1/4, 5/16, 3/8
A2	1/2, 5/8



CA1 ACCESS CONTROL VALVE

Controls the Flow of All 1/4” SAE Male Flare Depressor Type Valves.

- Purging Port for Air Removal and Safety
- Steel Construction
- Use with Standard Charging Hose



Valves & Fittings

STV2LL

SELF-TAPPING WATER VALVE

- Self Piercing on Copper Tubing or 0.035" Wall Hard PVC
- Fits 3/8" O.D. Through 1 3/8" O.D. Tubing or Pipe
- Can be Installed on Pipe with Existing Hole
- Stainless Steel Piercing Needle
- Low Lead
- Complies with the SDWA Section 1417 (d)
- Molded Gasket has a Two Stage Seal on Both Tubing and Valve
- Threaded Bottom Bracket for Easy Installation
- Includes all Fittings for Copper and Plastic Tubing
- Maximum Water Temperature 180°F/82°C



PART NO.	FLOW RATE	OUTLET	PIERCING NEEDLE	APPLICATION	COMMENTS
STV2LL	1 GPM	1/4" Comp.	1/8" Dia. (Hollow)	Ice Maker Kits	Reversible lower bracket, Low Lead

STV2DLL

CONVENTIONAL "DRILL" TYPE VALVE

- Must Pre-Drill 1/4" Hole in Pipe or Tubing
- Increased Water Flow from Standard Water Valve
- Fits Up to 1 3/8" O.D. Copper Tubing
- Fits 1/2" or 3/4" Galvanized Iron Water Pipe
- Flow Rate: 1 GPM
- Maximum Water Temperature 180°F/82°C
- Includes All Fittings for 1/4" O.D. Copper and Plastic Tubing
- Low Lead
- Complies with the SDWA Section 1417 (d)



FTV12

SELF-TAPPING VALVES

- For Humidifiers, Oil Lines and Steam Systems
- Maximum Operating Pressure 500 PSI

PART NO.	BRANCH TAP FITTING	APPLICATION
FTV12	3/8" SAE Flare	1/2" Steel or Brass Pipe Approx. 7/8" O.D.

Not intended for gas applications.



Valves & Fittings

LINE SERVICE VALVES

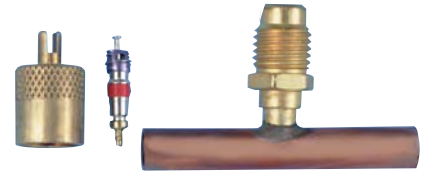
PART NO.	DESCRIPTION	PIPE THREAD
SF1010	1/8" copper tubing, wrench cap and core	—
SF2525	1/4" copper tubing, wrench cap and core	—
SF3600	1/8" ID hole, 3/16", 1/4", 5/16" steps, 1/8" MPT below hex wrench cap and core	—
SF3602	1/4" copper tubing, 3/16" & 1/8" copper bushings, wrench cap and core	1/8" m.



PART NO.	DESCRIPTION	PIPE THREAD
SF3603	3/16" copper tubing, wrench cap and core	1/8" m.
SF3604	1/4" copper tubing, wrench cap and core	1/8" m.
SF3605	5/16" copper tubing, wrench cap and core	—
SF3606	3/8" copper tubing, wrench cap and core	—
SF3608	1/8" copper tubing, wrench cap and core	1/8" m.

SF5421 TEE FITTING SERVICE VALVE

Copper Tee with the Body Brazed on. Furnished Complete with Core and Wrench Cap. The 1/4" I.D. x 5/16 O.D. Will Service 1/4", 5/16", and 3/8" Tubing.



SF5000 SERIES SADDLE VALVE COPPER TO COPPER

Completely Self Tapping. Steel Pin with Core Penetrates Line and is Locked Into Valve Body in One Operation, Simply by Tightening the Cap.

PART NO.	TUBING	PART NO.	TUBING
SF5512	1/2" O.D.	SF5534	3/4" O.D.
SF5514	1/4" O.D.	SF5538	3/8" O.D.
SF5516	5/16" O.D.	SF5558	5/8" O.D.
SF5518	1 1/8" O.D.	SF5578	7/8" O.D.



REPLACEMENT GASKET

PART NO.	DESCRIPTION
SF5501	25 per pack



SF3338 ACCESS VALVE

- Replaces A-1 F6290 (AV3-346)
- Standard 1/4" SAE Male Flare Connection
- Built in Valve Core and Brass Caps
- 3/16" OD or 1/4" & 3/8" Solder
- 100 Pack



AVU24 ACCESS VALVE

- 1/8" MPT x 1/4" SAE



REFRIGERATION

Valves & Fittings

SF8400 SERIES ECONOMY SERVICE VALVES

- Braze Only
- Includes SF1515 Core

PART NO.	I.D. HOLE	O.D.
SF8400	1/8"	3/16", 1/4", 5/16" Step
SF8408	1/8" Tube, 3/16", 1/4", 5/16" Step	
SF8403	3/16" Tube, 1/4" Step	
SF8404	1/4" Tube	
SF8405	5/16" Tube	
SF8406	3/8" Tube	

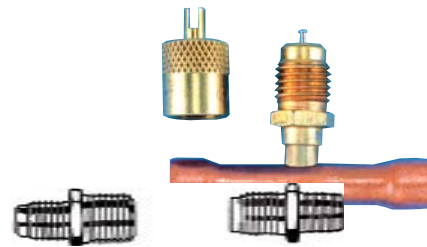


SF8000 SERIES UNIVERSAL LINE VALVES

Available in Various Sizes. Copper Tee with the Body Brazed on. Two Styles - a Flared or Straight End Copper Piece.
(See Chart Below for Exact Size)

PART NO.	LENGTH	I.D.	O.D.
SF8418	1 7/8"	1 1/8"	1 1/4"
SF8434	1 5/16"	3/4"	13/16"
SF8478	1 9/16"	7/8"	1"

PART NO.	LENGTH	I.D.	O.D.
SF8412	1 3/4"	1/2"	9/16"
SF8414	2 9/32"	1/4"	5/16"
SF8416	2"	5/16"	3/8"
SF8438	2"	3/8"	1/2"
SF8458	2"	5/8"	11/16"



SF1818 AND SF1414 BRASS BODIES

- Both Bodies Complete with Neoprene Seal, Core and Cap
- Each is a Quarter Male Flare Above the Hex



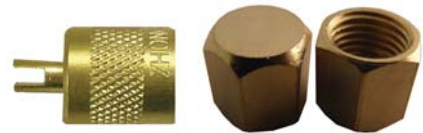
SF1818
(1/8" NPT-DRYSEAL)

SF1414
(1/4" MPT-DRYSEAL)



VALVE REPLACEMENT PARTS

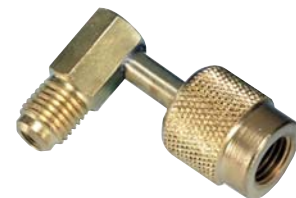
PART NO.	DESCRIPTION
SF2235	Heavy Duty Hex Brass Cap with Dual Neoprene or Metal Seal
SF2245	Heavy Duty Round Brass Cap with Neoprene Seal
SF2250	Heavy Duty Round Brass Cap with Handy Core Wrench Top and Neoprene Seal
SF4450	Valve Core with Neoprene Seal Compatible with Most Refrigerants (Replaces SF1515)
SF5161	5/16" OD Neoprene Hose Gasket for Charging Hoses



ADAPTERS/COUPLERS

Quick Valve Depressors Complete with Leakproof Neoprene Seal and Depressor Tips. Use to make Connection between Equipment with Unlike Threads. Made of CDA 360 Brass.
Available in Straight and 90° Configuration.

PART NO.	DESCRIPTION
SF2010	1/4" female flare swivel x 1/4" male flare access, 90° configuration. Depressor tip and seal, no valve core.
SF2012	1/4" female flare swivel x 1/2" Acme male, depressor tip and seal
SF2020	1/4" female flare hex x 1/2" Acme male
SF2028	1/4" male flare x 1/2" Acme female swivel, depressor tip seal



SF2035 HOSE GAS RETAINING COUPLER

- 1/4" Female Flare Retainer Sure-Seal x 1/4" Male Flare

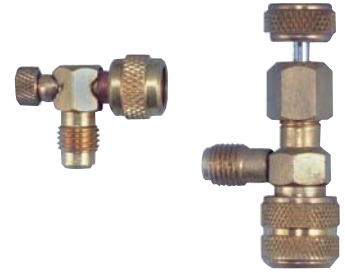


Valves & Fittings

SF2060 & SF5050 THUMBSCREW CORE DEPRESSORS

For Use on a 1/4" Male Flare to Allow the Core to be Opened to the Degree of Flow Desired. Solid Brass Construction. Compact Design Makes it Ideal in Close Quarters.

PART NO.	DESCRIPTION
SF2060	For 1/4" Male Flares
SF5050	For 1/4" Male Flares. Made Small for Use in Close Quarters



SF2070 HOSE GAS RETAINER AND CORE DEPRESSOR TOOL

This Tool is Attached to a Charging Hose, then it is Coupled to an Access Fitting. Thumb Screw the Depressor Tip Down to Depress the Core and Allow Gas to Flow Through the Hose. Thumb Screw Back to Allow the Core to Shut Off. The Depressor Tip Rod will Back Seat in a Teflon Gasket to Retain the Gas in the Hose. There will be no Loss of the Gas in the Hose When you Disconnect from the Access Fitting. Replaces Gasket SF1090.



SF2090 HOSE GAS RETAINING COUPLER

- 90° 1/4" Female Flare Retainer x 1/4" Male Flare



SF2595 & SF2597 GAUGE ADAPTER

SF2595 A 1 1/4" Piece of 1/4" Copper Tubing, Double Flared on One End with a 1/4" Female Flare Nut and a Depressor Tip. The End of the Copper Tube Opposite the Female Flare has been Swagged to Allow 1/4" Copper Tube to Enter for Brazing.

SF2597 A 1 1/4" Piece of 1/4" Copper Tubing, Double Flared on One End with a 1/4" Female Flare and a Depressor Tip. The Other End has a 1/4" Male Flare that has been Brazed on. A Core May be Inserted in the 1/4" Male Flare, but it is not Provided.



SF5014 GAUGE ADAPTER

- 1/4" Male Flare to 3/16" Fittings. Contains Depressor Pin.



SF8725 CONNECTOR

The SF8725 has a Gasket in the 1/4" Hex Nut. The Valve Body is Stationary. When Threads of Existing System Fittings are Stripped and a New Core won't go in, use this. It has a Core and no Depressor Tip.



TEE CONNECTORS

PART NO.	DESCRIPTION
SF9601	1/4" M. Flare x 1/4" Flare Nut wth Depressor Tip x 1/4" M. Flare on the Branch with One Valve Core
SF9602	1/4" M. Flare with Valve Core x 1/4" M. Flare x 1/4" F. Flare Nut with Depressor Tip on the Branch
SF9603	All Brass Connector Tee. 1/4" M. Flare with Valve Core and Cap x 1/4" M. Flare x 1/4" F. Flare Nut with Depressor Tip on the Branch



Valves & Fittings

SF9600 SERIES 1/4" FLARE FORGED ACCESS TEES

- Forged Brass Tee
- All 1/4" Flares are Threaded for Valve Cores



PART NO.	SIZE	MPT END I.D.
SF9614	1/4" m. flare x 1/4" MPT x 1/4" m. flare access on branch, one cap	5/16" for brazing a copper tube and one valve core
SF9616	1/4" m. flare x 1/8" MPT x 1/4" m. flare access on branch, one cap and	1/4" for brazing a copper tube valve core
SF9620	1/4" m. flare x 1/4" m. flare x 1/8" MPT on branch, one cap and valve core	1/4" for brazing a copper tube

SF9644 CONNECTOR

2 1/4" Male Flares, One with Core and Cap, in a "U" Shape. At the Side is a 1/4" Female Depressor Tip and Opposite that is an Additional 1/4" Male Flare.



GASKET "O" RINGS

PART NO.	ID SIZE	DESCRIPTION
SF0099	5/32"	Used for SF5050 Valve
SF0101	1/4"	-
SF0111	5/16"	Black Rubber (Used for SF3900)

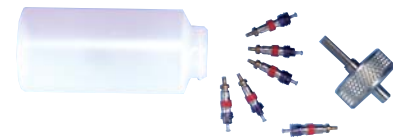
PART NO.	ID SIZE	DESCRIPTION
SF1060	3/16"	Used in Brass Caps
SF1090	5/16"	Black Rubber (Used for SF2070)
SF5501	1/4"	White Teflon (Used for SF5500 Series)



Valve Tools

SF3800 CHASER

- Two Tools, a Core Wrench and Thread Chaser, Complete with a Core Carrying Case and Six Cores
- Length With Core Wrench Lid 3 1/2"



SF3813 VALVE CORE REMOVER/CONTAINER

- Heavy-Duty, All Brass
- Includes 3 Valve Cores
- Length is 3"



CORE REMOVAL TOOLS

PART NO.	DESCRIPTION
SF3900	Designed for Removing and Replacing a "Schrader" Type Core, Without Losing the Charge. All Brass Construction.
SF3910	Same as Above with an Additional Side Port (1/4" Male Flare) with Core.

Not Compatible with R-410A



CORE REMOVAL TOOLS (WITH BALL VALVE)

PART NO.	DESCRIPTION
SF3920	Removes a Valve Core from a 1/4" Male Flare Access Fitting Without Loss of Refrigerant. Because it has a Ball Valve Inside Rather than a Stem-type Valve, the Tool Can be Closed with Just a Quarter Turn.
SF3930	Same as Above with an Additional Port
SF5555	CRT Repair Kit (O-Rings)

Not Compatible with R-410A



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Valve Tools

SF3970 INTERNAL TEMPERATURE READING TOOL

This Two-Piece Tool Provides a Better Way of Obtaining a Temperature Reading Inside the System.

- Measures -58°F to 302°F
- Allows You to Insert the Digital Thermometer through an Access Fitting, Adjust for Superheat while you're Inside.
- Complete with Core Extractor Tool and Digital Thermometer
- Instructions Included
- Replaces SF3940 and SF3960
- Not Compatible with R-410A



SF4311 "FASTAP" TUBE PIERCING PLIERS

Fast Refrigerant Recovery with Pliers that Clamp on and Pierce Tube.

- Pliers Work on Copper Tubing Sizes Ranging from 1/4" to 7/8" OD
- Simple to Use and Light Weight
- Piercing Tip is Self-Sharpening, but Easily Replaceable



SF4314
Tube Piercing
Pliers Replacement Tip



Driers

SUD8358 - MAGNA-CLEAN®

- 100% XH-9 Beaded Desiccant, Compatible with All Refrigerants and Oils
- Hermetically Sealed, Directional Flow Drier with Access Valve
- 100% Spun Copper Shell and End Tubes, Pre-Scored Ends for Easy Break Off
- 100 Micron Filter Sieve
- Reduces Clogged Capillary Tubes. Reduces Wear and Tear on Component Parts
- Use on Capillary or Expansion Valve Systems
- Maximum Working Pressure 500 PSI



Specifications

INLET	OUTLET	LENGTH	DIAMETER	TONNAGE R134A	TONNAGE R22	R134A DROPS OF WATER REMOVED	R22 DROPS OF WATER REMOVED
1/4" OD 1/4" Flare	1/4" OD or Cap	8 3/4"	1"	3/4	1 68 @ 125°F	74 @ 75°F 64 @ 125°F	68 @ 75°F

SUD8288

The SUD8288 is a Solid Core Cleanout Drier with UV Dye and a Magnetic Filter.

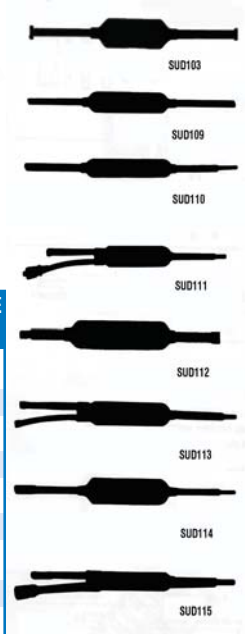
- Can Replace Electrolux® 5303918288 and All Other Copper Driers
- Adds UV Dye and Processes through a Magnetic Filter to Remove Microscopic Metal Particles from the System



SUD SERIES COPPER DRIERS

High Quality, High Capacity Original Equipment Components for use on Domestic and Commercial Refrigerators, Freezers and Air Conditioners.

- 100% XH-9 Beaded Molecular Sieve
- Hermetically Sealed
- Copper Shells and End Tubes
- High Capacity
- Easy Break Off Grooved Ends
- Maximum Working Pressure 500 PSI



PART NO.	DESCRIPTION	INLET	OUTLET	LENGTH	RECOMMENDED TONNAGE	
					R-134A	R-22
SUD103	1" Plugged Ends	1/4" O.D.	1/4" O.D.	8"	1/3	1/2
SUD109	3/4" Non-Directional	1/4" O.D.	1/4" O.D.	7 1/2"	1/3	1/2
SUD110	3/4" Fused Ends	1/4" O.D.	1/4" O.D.	8 7/8"	1/3	1/2
SUD111	1" Charging Drier	1/4" O.D. 1/4" Flare	1/4" O.D. or Cap	9 5/8"	3/4	1
SUD112	1" Step Down Drier	5/16" O.D.	5/16" O.D. or Cap	10 3/4"	1	2
SUD113	1" Double Inlet	(2)1/4" O.D.	1/4" O.D.	8 3/4"	3/4	1
SUD114	1" Fused Ends	1/4" I.D. 1/4" O.D.	1/4" O.D. or Cap	8 3/4"	3/4	1
SUD115	3/4" Charging Drier	1/4" I.D. 1/4" O.D. 1/4" Flare	1/4" O.D. or Cap	9 5/8"	1/3	1/2
SUD116	1" Non-Directional	3/16", 1/4", 5/16" I.D.	5/16" I.D. or Cap	8 3/4"	3/4	1

Driers

S200 SERIES COPPER STRAINERS

Specifically Designed for Reopened Systems. Each Strainer Contains an Oversized Screen Area for Filtering Large Quantities of burnt out Foreign Matter from System.

- 500 PSI Maximum
- 200 Mesh Monel Screen

PART NO.	INLET	OUTLET	O.A. LENGTH	O.D.	FEED
S210	1/4"	.098 CAP	2 3/4"	3/4"	1
S211	1/4"	.125 CAP	2 3/4"	3/4"	1
S212	1/4"	1/4"	2 3/4"	3/4"	1
S213	5/16"	5/16"	2 3/4"	3/4"	1
S214	3/8"	Double Feed Cap .125	4 1/2"	5/8"	2
S215	3/8"	Triple Feed Cap .125	4 1/2"	5/8"	3
S216	3/8"	3/8"	4 1/2"	5/8"	1
S218	3/8"	.125 CAP	4 1/2"	5/8"	1
S219	3/8"	.146 CAP	5"	7/8"	4
S220	3/8"	.112 CAP	4 1/2"	7/8"	6



Solder Connection Driers

PART NO.	DESCRIPTION	INLET	OUTLET	DROPS OF WATER REMOVED				RECOMMENDED TONNAGE	
				75°	125°	75°	125°	R-12	R-22
MD5	1" Drier (No Tubes)	1/4"	CAP	37.5	34	34	32	1/3	1/2
MD6	1" Drier (No Tubes)	3/8"	CAP	37.5	34	34	32	1/3	1/2
MD7	1" Drier (No Tubes)	1/4"	1/4"	37.5	34	34	32	1/3	1/2

CSLD SERIES/COMPACT SUCTION LINE DRIERS

- Dual Access Valves
- High Acid Removal
- Solid Copper Fittings (Available in Solder Only)
- Corrosion Resistant Epoxy Powder Paint Finish

Specifications

Maximum Working Pressure (MWP): 500 PSIG
Filtration: 40 Microns

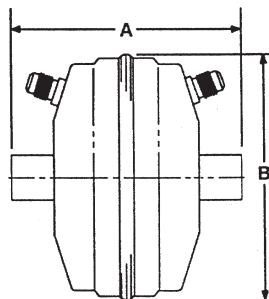
Part Number Key **CSLD14S5**

Series: **C**

Unit Size Cubic Inches: **S**

S = ODF Connection

Connection Size (in 1/8): **5**



PART NO.	CONNECTIONS SIZE & TYPE	DIMENSION IN INCHES A B	FLOW CAPACITY IN TONS REFRIGERANT (1) (FOR KW MULTIPLY TONS BY 3.5 (2))																								
			R-12					R-134a					R-22					R-407C					R-410A				
			EVAPORATOR TEMPERATURE (F)										PRESSURE DROP (PSI)														
			40	20	0	-20	40	20	0	-20	40	20	0	-20	-40	40	20	0	-20	-40	40	20	0	-20	-40		
CSLD14S4	1/2 ODF	4 7/32 4 9/16	2	1.5	1	0.5	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5		
CSLD14S6	3/4 ODF	4 3/8 4 9/16	1.3	0.9	0.5	0.3	1.3	0.9	0.5	0.3	2	1.3	0.9	0.6	0.3	2.2	1.5	1.1	0.7	0.4	1.4	0.9	0.6	0.4	0.2		
CSLD14S7	7/8 ODF	4 9/16 4 9/16	3	2.1	1.3	0.8	3.1	2.1	1.3	0.7	4.9	3.2	2.2	1.4	0.7	5.5	3.7	2.7	1.7	0.9	3.3	2.2	1.5	0.9	0.5		
CSLD14S9	1 1/8 ODF	4 27/32 4 9/16	3.2	2.2	1.5	0.8	3.3	2.2	1.4	0.7	5.2	3.4	2.3	1.5	0.8	5.8	3.9	2.8	1.9	1.1	3.6	2.3	1.6	1	0.5		
			4.4	3.1	1.9	1.1	4.5	3	1.8	1	7	4.6	3.1	2	1	7.8	5.3	3.7	2.5	1.3	4.8	3.2	2.1	1.3	0.7		

PART NO.	CONNECTIONS SIZE & TYPE	FLOW CAPACITY IN TONS REFRIGERANT (FOR KW, MULTIPLY TONS BY 3.5)																								
		R-502					R-404A/507																			
		EVAPORATOR TEMPERATURE (F)																								
		40	20	0	-20	-40	40	20	0	-20	-40															
CSLD14S4	1/2 ODF	3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5
CSLD14S6	3/4 ODF	1.3	0.8	0.5	0.3	0.2	1.3	0.8	0.5	0.3	0.2	1.3	0.8	0.5	0.3	0.2	1.3	0.8	0.5	0.3	0.2	1.3	0.8	0.5	0.3	0.2
CSLD14S7	7/8 ODF	3.7	2.3	1.5	0.9	0.5	3.6	2.3	1.5	0.9	0.5	3.6	2.3	1.5	0.9	0.5	3.6	2.3	1.5	0.9	0.5	3.6	2.3	1.5	0.9	0.5

(1) All Ratings in Accordance with ARI Standard 730-86
(2) For 2 PSI P, Multiply Values by 1.4
Example: 1.0 Tons x 3.5 = 3.5 kw

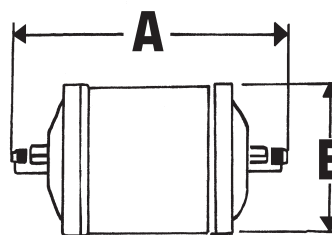
Driers

LLD SERIES LIQUID LINE DRIERS

- Solid Copper Fittings
- Shock Resistant Steel Construction
- High Acid and Moisture Removal
- Corrosion Resistant Epoxy Powder Paint Finish

Specifications

Desiccant Blend: Activated Alumina with Molecular Sieve
 Filtration: 40 Microns
 Maximum Working Pressure (MWP): Sizes 03-016 Cubic Inches = 680 PSIG
 Sizes 30-75 Cubic Inches = 500 PSIG



Part Number Key

LLD083S

Series

Unit Size Cubic Inches

Connection Size (in 1/8)

S = ODF Connection (Omit for SAE)

PART NO.	Connection SIZE & TYPE	Dimensions in Inches A B		FLOW CAPACITY TONS @ 1 PSI P (1)(4) (FOR KW, MULTIPLY TONS BY 3.5)							WATER CAPACITY / DROPS OF WATER													
				R-404A							R-12		R-134a		R-22		R-407C		R-410A		R-404/507		R-502	
				R-12	R-134a	R-22	R-410A	R-407C	/507	R-502	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
LLD032	1/4 SAE	4 5/16	1 5/8	1.6	1.9	2.1	2.1	2	1.4	1.3														
LLD032S	1/4 ODF	3 3/4	1 5/8	1.9	2.3	2.5	2.5	2.4	1.7	1.6														
LLD052	1/4 SAE	4 7/8	2 1/2	1.6	2	2.2	2.2	2.1	1.4	1.4														
LLD052S	1/4 ODF	4 11/32	2 1/2	2.4	2.9	3.1	3.1	3.1	2.1	2	130	81	68	50	58	38	47	26	44	23	73	48	73	49
LLD053	3/8 SAE	5 3/16	2 1/2	3	3.7	4	4	3.9	2.7	2.6														
LLD053S	3/8 ODF	4 17/32	2 1/2	3.7	4.5	4.9	4.9	4.8	3.3	3.2														
LLD082	1/4 SAE	5 13/16	2 1/2	1.6	2	2.2	2.2	2.1	1.4	1.4														
LLD082S	1/4 ODF	5 1/4	2 1/2	2.5	3.1	3.4	3.4	3.3	2.2	2.2														
LLD083	3/8 SAE	6 3/32	2 1/2	3.5	4.3	4.7	4.7	4.6	3.1	3	188	117	101	76	87	57	68	39	63	34	109	73	105	71
LLD083S	3/8 ODF	5 7/16	2 1/2	3.4	4.2	4.6	4.6	4.5	3	3														
LLD084	1/2 SAE	6 11/32	2 1/2	5.5	6.7	7.3	7.3	7.1	4.9	4.7														
LLD084S	1/2 ODF	5 1/2	2 1/2	5.7	7	7.6	7.6	7.4	5.1	4.9														
LLD162	1/4 SAE	6 19/32	2 1/2	1.6	2	2.2	2.2	2.1	1.4	1.4														
LLD163	3/8 SAE	6 7/8	2 1/2	3.6	4.4	4.8	4.8	4.7	3.2	3.1														
LLD163S	3/8 ODF	6 7/32	2 1/2	4	4.9	5.3	5.3	5.2	3.6	3.5														
LLD164	1/2 SAE	7 1/8	2 1/2	6.8	8.3	9	9	8.8	6	5.8	295	204	169	140	151	117	134	86	115	67	180	143	193	145
LLD164S	1/2 ODF	6 9/32	2 1/2	7.1	8.6	9.3	9.3	9.1	6.2	6.1														
LLD165	5/8 SAE	7 1/2	2 1/2	9.7	11.8	12.8	12.8	12.5	8.6	8.3														
LLD165S	5/8 ODF	6 17/32	2 1/2	10.7	13.1	14.2	14.2	13.9	9.5	9.2														
LLD303	3/8 SAE	9 9/16	3	3.9	4.7	5.1		5	3.4	3.3														
LLD303S	3/8 ODF	8 29/32	3																					
LLD304	1/2 SAE	9 13/16	3	7.1	8.6	9.3		9.1	6.2	6.1														
LLD304S	1/2 ODF	8 15/16	3	7.2	8.8	9.5		9.4	6.4	6.2														
LLD305	5/8 SAE	10 3/16	3	11.3	13.8	15		14.7	10	9.7	615	444	359	278	314	218	309	212			385	272	427	335
LLD306S	3/4 ODF	9 5/8	3	13	15.8	17.1		16.8	11.5	11.1														
LLD307S	7/8 ODF	9 13/16	3	14.3	17.4	18.9		18.5	12.6	12.3														
LLD309S	1 1/8 ODF	9 13/16	3	20.4	24.9	27		26.5	18	17.5														

(1) All Ratings in Accordance with ARI Standard 710-86.
 86°F Liquid Refrigerant Temperature
 5°F Saturated Vapor Temperature
 3.1 lbs./min./ton for R-134A
 2.9 lbs./min./ton for R-22 and R-407C
 4.0 lbs./min./ton for R-404A/507 and R-12
 4.4 lbs./min./ton for R/502
 2.7 lbs./min./ton for R-410A

(2) Water Capacities are Based on:
 Equilibrium Point Dryness (EPD) of:
 50 Parts per Million for R-134A, R404-A/507,
 R-410A and R-407C
 60 Parts Per Million for R-22
 30 Parts Per Million for R-502
 15 Parts Per Million for R-12

(3) 20 Drops of Water = 1 gram = 1 cc
 (4) For 2 PSI D P, Multiply Values by 1.4

Driers

LLD Liquid Refrigerant Holding Capacity - Ounces

UNIT SIZE	R-12		R-134a		R-22		R407C		R-410A		R-404A/507		R-502	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
03	2.4	2.2	2.2	2	2.2	2	2.1	1.9	2	1.7	1.9	1.7	2.2	2
05	5.9	6	5.5	5.5	5.4	5.4	5.2	5	4.8	4.5	4.7	4.5	5.5	5.4
08	8	7.4	7.4	6.7	7.3	6.6	7	6.2	6.5	5.5	6.4	5.5	7.5	6.6
16	14.5	12.5	13.4	11.4	13.2	11.2	12.6	10.4	11.7	9.4	11.6	9.3	13.5	11.2
30	21.8	19.9	20.1	18.1	19.8	17.8	18.9	16.6			17.4	14.7	20.2	17.7
41	29.3	26.8	26.9	24.4	26.6	23.9	25.4	22.3			23.3	19.7	27.2	23.8
75	52.8	48.3	48.6	43.9	48	43.1	45.8	40.2			42.1	35.6	49.1	43

R-410A The LLD Filter Drier is UL Listed for 680PSIG Maximum Working Pressure for All Sizes Through 16 Cubic Inches.

LLD Liquid Line Filter Driers

FILTER DRIER	REFRIGERATION, LOW TEMP. & COMMERCIAL INSTALLATIONS			AIR CONDITIONING FIELD REPLACEMENT & FIELD INSTALLATIONS		OEM SELF CONTAINED EQUIPMENT	
	R-12/134a	R-22/407C/410A	R-404A/507A	R-12/134a	R-22/407C/410A	R-12/134a	R-22/407C
	032,032S	1/4	1/4	1/4	1/2	3/4	3/4
052,052S	1/3	1/3	1/3	3/4	1	1	1 1/2
053,053S	1 1/2	2	2	3			
082,082S	1/2	1/2	1/2	3/4	1 1/2	1	2
083,083S	1	1	1	2	3	3	4
084,084S	1.5	2	1	3	5	4	7
162,162S	1	1 1/2	3/4	1	2	2	2 1/2
163,163S	2	4	2	4	6	5	7 1/2
164,164S	2	4	2	4	6	5	7 1/2
165,165S	3	5	2 1/2	5	7 1/2	7 1/2	10
303S	3	3	2	3	4 1/2	4	5
304,304S	3	5	3	5	7 1/2	7 1/2	9
305,305S	5	7 1/2	5	8	10	10	14
306S	7 1/2	7 1/2	5	7 1/2	12 1/2	15	20
307S	7 1/2	7 1/2	5	7 1/2	12 1/2	15	20
309S	7 1/2	10	7 1/2	10	12 1/2	15	20



LLD032



LLD083



LLD306S

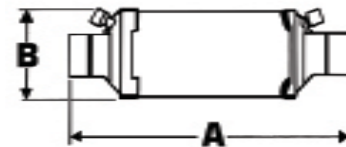
Driers

SSLD SERIES/SUCTION LINE FILTER DRIERS

- Dual Access Valves
- Solid Copper Fittings
- Corrosion Resistant Epoxy Powder Paint Finish

Specifications

Filtration: 40 Microns
 Maximum Working Pressure (MWP): 500 PSIG



Part Number Key **SSLD167S**

Series

Unit Size Cubic Inches

Connection Size (in 1/8)

S = ODF Connection (omit for SAE)

Flow Capacities in Refrigerant Tons at Selected Evaporator Temperatures

PART NO.	CONNECTION SIZE & TYPE	DIMENSION IN INCHES A B		+40°F +20°F 0°F -20°F				+40°F +20°F 0°F -20°F				+40°F +20°F 0°F -20°F					
				R-134a				R-22				R410A					
				2	1.5	1	0.5	3	2	1.5	1	0.5	3	2	1.5	1	0.5
SSLD83	3/8 SAE	6 3/32	2 1/2	0.6	0.4	0.2	0.1	0.9	0.6	0.4	0.3	0.1	1.1	0.8	0.5	0.4	0.1
SSLD83S	3/8 ODF	5 7/16	2 1/2	0.8	0.5	0.3	0.2	1.3	0.8	0.6	0.4	0.2	1.6	1	0.8	0.5	0.3
SSLD84	1/2 SAE	6 11/32	2 1/2	1.4	0.9	0.6	0.3	2.2	1.4	1	0.6	0.3	2.7	1.8	1.3	0.8	0.4
SSLD84S	1/2 ODF	5 1/2	2 1/2	1.7	1.2	0.7	0.4	2.7	1.8	1.2	0.8	0.4	3.4	2.3	1.6	1.1	0.5
SSLD85	5/8 SAE	6 3/16	2 1/2	2.2	1.5	0.9	0.5	3.4	2.2	1.5	1	0.5	4.2	2.8	2	1.3	0.7
SSLD85S	5/8 ODF	5 3/4	2 1/2	2.4	1.6	1	0.5	3.8	2.5	1.7	1.1	0.6	4.7	3.2	2.3	1.5	0.8
SSLD164	1/2 SAE	7 1/8	2 1/2	1.5	1	0.6	0.3	2.3	1.5	1	0.7	0.4	2.9	1.9	1.3	0.9	0.5
SSLD165S	5/8 ODF	6 9/16	2 1/2	2.2	1.5	0.9	0.5	3.4	2.2	1.5	1	0.5	4.2	2.8	2	1.3	0.7
SSLD166	3/4 SAE	6 31/32	2 1/2	2.6	1.8	1.1	0.6	4.1	2.7	1.8	1.2	0.6					
SSLD166S	3/4 ODF	6 31/32	2 1/2	2.6	1.8	1.1	0.6	4.1	2.7	1.8	1.2	0.6	5.1	3.4	2.4	1.6	0.8
SSLD167S	7/8 ODF	7 1/8	2 1/2	2.7	1.8	1.1	0.6	4.6	2.8	1.9	1.1	0.6					
SSLD305	5/8 SAE	10 3/16	3	3	2	1.2	0.6	4.7	3.1	2.1	1.3	0.7	5.8	3.9	2.8	1.7	0.9
SSLD305S	5/8 ODF	9 7/32	3	2.8	1.8	1.1	0.6	4.3	2.8	1.9	1.2	0.6	5.3	3.6	2.5	1.6	0.8
SSLD306S	3/4 ODF	9 5/8	3	3.4	2.3	1.4	0.7	5.4	3.5	2.4	1.5	0.8	6.7	4.5	3.2	2	1.1
SSLD307S	7/8 SAE	9 25/32	3	3.8	2.5	1.6	0.8	5.9	3.9	2.6	1.7	0.9	7.3	5	3.5	2.3	1.2
SSLD417S													9.4	6.2	4.5	2.8	1.5
SSLD419S	1 1/8 ODF	9 15/16	3 1/2	5.4	3.6	2.2	1.2	8.5	5.5	3.8	2.4	1.3	10.6	7	5.1	3.2	1.8

Flow Capacity Chart

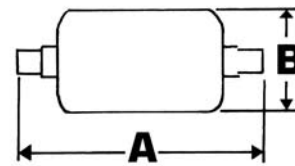
PART NO.	CONNECTION SIZE & TYPE	DIMENSION IN INCHES A B		+40°F +20°F 0°F -20°F				+40°F +20°F 0°F -20°F					
				R407C				R-502/R404A/R507					
				3	2	1.5	1	0.5	3	2	1.5	1	0.5
SSLD83	3/8 SAE	6 3/32	2 1/2	1	0.6	0.4	0.3	0.1	0.7	0.5	0.3	0.2	0.1
SSLD83S	3/8 ODF	5 7/16	2 1/2	1.4	0.9	0.6	0.4	0.2	1	0.7	0.5	0.3	0.1
SSLD84	1/2 SAE	6 11/32	2 1/2	2.3	1.5	1.1	0.6	0.3	1.8	1.1	0.8	0.5	0.3
SSLD84S	1/2 ODF	5 1/2	2 1/2	2.9	1.9	1.3	0.8	0.4	2.2	1.4	1	0.6	0.3
SSLD85	5/8 SAE	6 3/16	2 1/2	3.6	2.3	1.6	1	0.5	2.8	1.8	1.2	0.8	0.4
SSLD85S	5/8 ODF	5 3/4	2 1/2	4.1	2.7	1.8	1.2	0.6	3.1	2	1.3	0.8	0.4
SSLD164	1/2 SAE	7 1/8	2 1/2	2.5	1.6	1.1	0.7	0.4	1.9	1.2	0.8	0.5	0.3
SSLD165S	5/8 ODF	6 9/16	2 1/2	3.6	2.3	1.6	1	0.5	2.8	1.8	1.2	0.8	0.4
SSLD166	3/4 SAE	6 31/32	2 1/2						3.4	2.2	1.5	0.9	0.5
SSLD166S	3/4 ODF	6 31/32	2 1/2	4.4	2.9	1.9	1.3	0.6	3.4	2.2	1.5	0.9	0.5
SSLD167S	7/8 ODF	7 1/8	2 1/2						4.3	2.6	1.7	1	0.6
SSLD305	5/8 SAE	10 3/16	3	5	3.3	2.2	1.4	0.7	3.8	2.5	1.7	1	0.5
SSLD305S	5/8 ODF	9 7/32	3	4.6	3	2	1.3	0.6	3.6	2.3	1.5	1	0.5
SSLD307S	7/8 SAE	9 25/32	3	6.3	4.1	2.7	1.8	0.9	4.9	3.1	2.1	1.3	0.7
SSLD419S	1 1/8 ODF	9 15/16	3 1/2	9.1	5.9	4	2.5	1.3	6.9	4.5	3	1.9	1

All Ratings in Accordance with ARI Standard 710-86

Driers

HP SERIES/LIQUID LINE BI-DIRECTIONAL HEAT PUMP DRIERS

- 16 Cubic Inch Drier in a 2 1/2" Diameter Shell
- Internal Check Valves Allow Flow and Filtration in Either Direction
- High Moisture and Acid Removal
- Corrosion Resistant Epoxy Powder Paint Finish
- Copeland Approved for POE Oils



Part Number Key

HP165S

Series

Unit Size Cubic Inches (in 1/8)

Connection Size (omit for SAE)

S = ODF Connection

Specifications

Desiccant Blend: 75% Molecular Sieve and 25% Activated Alumina (Bead)
 Filtration: 40 Microns
 Maximum Working Pressure (MWP): Sizes 05-16, 600 PSIG

HP Capacity Tables

PART No.	CONNECTION SIZE & TYPE	DIMENSIONS A B		FLOW CAPACITY TONS @ 1 PSI Δ P(1)(4) (FOR kW, MULTIPLY TONS BY 3.5)			WATER CAPACITY TONS (2) DROPS OF WATER (3)							
				R-22	R-410A		R-22		R-407C		R-410A			
					75°F	75°F	125°F	75°F	125°F	75°F	125°F			
HP083	3/8 SAE	5.94	2.63	4.5	4.5	4.4								
HP083S	3/8 ODF	5.31	2.63	5.1	5.1	5								
HP084	1/2 SAE	6.19	2.63	6.4	6.4	6.3	159	144	106	79	85	75		
HP84S	1/2 ODF	5.38	2.63	6.7	6.7	6.6								
HP163	3/8 SAE	6.75	3.15	4.6	4.6	4.5								
HP163S	3/8 ODF	6.13	3.15	5.2	5.2	5.1								
HP164	1/2 SAE	7.00	3.15	7.7	7.7	7.6	323	294	237	179	178	160		
HP164S	1/2 ODF	6.13	3.15	8.1	8.1	7.9								
HP165	5/8 SAE	7.44	3.15	8.3	8.3	8.1								
HP165S	5/8 ODF	6.44	3.15	8.7	8.7	8.5								

HP Capacity Tables

UNIT SIZE	FLOW CAPACITY - TONS @ 1 PSI		LIQUID REFRIGERANT HOLDING CAPACITY - Oz.						WATER HOLDING CAPACITY DROPS					
	R-22/R-410A		R-22		R-407		R-410A		R-22		R-407C		R-410A	
	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F	75°F	125°F
163S	5.2	5.1												
164	6.6	6.5												
164S	7.4	7.3	10.1	9.1	9.6	8.5	9	7.6	161	141	125	87	91	55
165	8	7.8												
165S	8.3	8.1												

(1) All ratings in accordance with ARI Standard 710-86.
 86°F liquid refrigerant temperature.
 5°F saturated vapor temperature
 3.1 lbs./min./ton for R-134a
 2.9 lbs./min./ton for R-22 and R-407C
 4.0 lbs. min./ton for R-404A/507 and R-12
 4.4 lbs./min./ton for R-502
 2.7 lbs./min./ton for R-410A

(2) Water Capacities are based on: Equilibrium Point Dryness (EPD) of:
 50 parts per million for R-134a, R404-A/507, R-410A and R-407C
 60 parts per million for R-22
 15 parts per million for R-12
 30 parts per million for R-502
 (3) 20 drops of water = 1 gram = 1 cc
 (4) For 2 PSI D P, Multiply values by 1.4

Driers

HP Series / Liquid Line Bi-Directional Heat Pump Driers

UNIT SIZE	AIR CONDITIONING						
	REFRIGERATION, LOW TEMP. & COMMERCIAL INSTALLATIONS			FIELD REPLACEMENT & FIELD INSTALLATIONS		OEM: SELF CONTAINED EQUIPMENT	
	R-12/134A	R-22/407C/410A	R-404A/134A	R-12/134A	R-22/407C/410A	R-12/13A	R-22/407C
083, 083S	1	1	1	2	3	3	4
084, 084S	1.5	2	1	3	5	4	7
162, 162S	1	1.5	3/4	1	2	2	2 1/2
163, 163S	2	4	2	4	6	5	7 1/2
164, 164S	2	4	2	4	6	5	7 1/2
165, 165S	3	5	2 1/2	5	7 1/2	7 1/2	10

SSG SERIES MOISTURE INDICATORS

- Fully Hermetic Design
- 3% Relative Humidity Indication Compared to 10% Paper Indicators
- Single Indicator for All Common Refrigerants
- Accurate Color Calibration at Low PPM Levels and Higher Temperatures
- Tri Color Coded
 - Blue = Dry Optimal Operation Conditions
 - Purple = Low Levels of Moisture Indicated
 - Pink = High Levels of Moisture Detected
- Wide Angle Viewing High Visibility Window for Ease of Monitoring
- All Brass Corrosion Resistant Body
- Solid Copper Fittings



Specifications

3% Relative Humidity Sensitivity
 Maximum Working Pressure (MWP): 680 PSIG

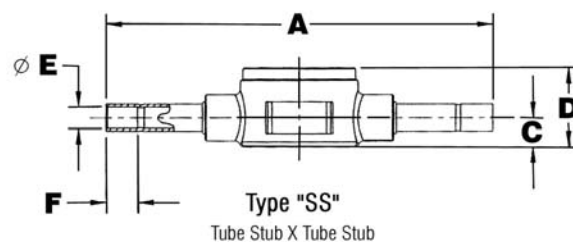
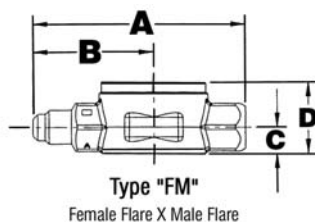
Part Number Key SSGSS3

SUPCO Sight Glass

Connection Style Solder X Solder

Connection Size (in 1/8)

PART NO.	CONNECTION SIZE & TYPE	A	B	C	D	E	F
SSGFM2	1/4 SAE	2.75 ± .03	1.19 ± .03	.34 ± .06	.937 ± .06		
SSGFM3	3/8 SAE	3.00 ± .03	1.31 ± .03	.47 ± .06	1.187 ± .06		
SSGFM4	1/2 SAE	3.22 ± .03	1.41 ± .03	.47 ± .06	1.187 ± .06		
SSGSS2	1/4 ODF	4.62 ± .10		.34 ± .06	.937 ± .06	.254 ± .002	.375
SSGSS3	3/8 ODF	4.62 ± .10		.34 ± .06	.937 ± .06	.379 ± .002	.402
SSGSS4	1/2 ODF	4.87 ± .10		.47 ± .06	1.187 ± .06	.504 ± .003	.500
SSGSS5	5/8 ODF	4.87 ± .10		.47 ± .06	1.187 ± .06	.629 ± .003	.625
SSGSS7	7/8 ODF	6.31 ± .10		.61 ± .06	1.500 ± .06	.879 ± .003	.750



Driers

ALLIN LIQUID EYE® SIGHT GLASSES

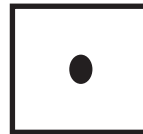
The Allin Liquid Eye® has a Unique “See-Thru” Feature that is more Readable than Other Sight Glasses. The Dot on the Tube is Magnified when the Tube is full of Refrigerant to give a Quick, Easy Indication.

- Solid Brass Body
- Shock Resistant Glass
- Available in Flare or Solder
- Color Bar Designed for HFC Refrigerants

PART NO.	FLARE (IN.)	MALE/FEMALE LENGTH (IN.)	A-1® PART NO.
SG114	1/4 x 1/4	3-1/16	F5904
SG115	3/8 x 3/8	3-1/4	F5905
SG206	1/2 x 1/2	3-11/16	F5916
SG207	5/8 x 5/8	4	F5917
PART NO.	FLARE (IN.)	MALE/MALE LENGTH (IN.)	A-1® PART NO.
SG110	1/4 x 1/4	3-1/8	F5900
SG111	3/8 x 3/8	3-3/8	F5901
SG204	1/2 x 1/2	3-15/16	F5914
SG205	5/8 x 5/8	4-1/8	F5915
PART NO.	SWEAT (IN.)	SOLDER/TYPE LENGTH (IN.)	A-1® PART NO.
SG118	1/4 x 1/4	7-1/4	F5908
SG119	3/8 x 3/8	7-3/4	F5909
SG208	1/2 x 1/2	7-3/4	F5918
SG209	5/8 x 5/8	7-3/4	F5919

Allin Liquid Eye®

MADE IN THE
USA



Empty



Full

ALLIN LIQUID EYE® MOISTURE REACTORS

The Allin Liquid Eye® Moisture Reactor is Easy to Read in Minimal Light. It Provides a Quick Indication of Refrigerant in the Tube, as well as the Pressure of the Moisture. When Moisture is Present, the Color Bars on the Band within the Tube Change Color.

- Solid Brass Body
- Shock Resistant Glass
- Available in Flare or Solder
- Color Bar Designed for HFC Refrigerants

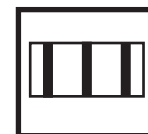
PART NO.	FLARE (IN.)	MALE/FEMALE LENGTH (IN.)	A-1® PART NO.
SG114R	1/4 x 1/4	3-1/16	F5924
SG115R	3/8 x 3/8	3-1/4	F5925
SG206R	1/2 x 1/2	3-11/16	F5936
SG207R	5/8 x 5/8	4	F5937
PART NO.	FLARE (IN.)	MALE/MALE LENGTH (IN.)	A-1® PART NO.
SG110R	1/4 x 1/4	3-1/8	F5920
SG111R	3/8 x 3/8	3-3/8	F5921
SG204R	1/2 x 1/2	3-15/16	F5934
SG205R	5/8 x 5/8	4-1/8	F5935
PART NO.	SWEAT (IN.)	SOLDER/TYPE LENGTH (IN.)	A-1® PART NO.
SG118R	1/4 x 1/4	7-1/4	F5928
SG119R	3/8 x 3/8	7-3/4	F5929
SG208R	1/2 x 1/2	7-3/4	F5938
SG209R	5/8 x 5/8	7-3/4	F5939

Allin Liquid Eye®

MADE IN THE
USA



No Moisture



Moisture

R
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Drain Heaters

All SUPCO Drain and Door Heaters are Designed for Continuous Use to Protect Drains Against Ice Build Up which Leads to Clogging. All of these Heaters Cannot be Cut, Spliced, Extended or Altered in Any Way.

SH200 SERIES FLEXIBLE BRAIDED ALUMINUM DRAIN HEATERS

- Aluminum Construction
- Variety of Lengths and Wattages Available
- Available in 220 Volts, Special Order

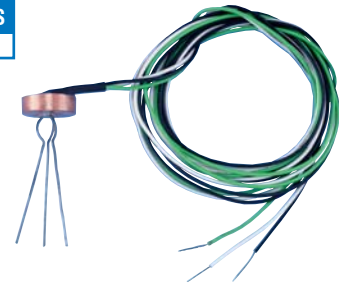
PART NO.	VOLTS	WATTS	SIZE (in)	LEADS (in)
SH201	115	15	18	23
SH202	115	45	29	23
SH203	115	55	44	23
SH204	115	75	48	23
SH206	115	80	70	23
SH207	115	110	86	23



SH250 UNIVERSAL DRAIN HEATER

- Used With Existing Heater or Where No Heater Exists
- Available in 220 Volts, Special Order
- Designed for "Series Wiring Connection" Only

PART NO.	VOLTS	WATTS	SIZE	LEADS
SH250	120	3		



SH500 SERIES DRAIN HEATERS

- Durable Metal Braid
- Available in 220 Volts, Special Order
- Heater Tip 7/16" Diameter
- Silicone Construction
- Designed for Waterproof Low Wattage Heat

PART NO.	VOLTS	WATTS	SIZE (in)	LEADS (in)
SH500	120	11	9	18
SH502	120	15	13	18
SH503	240	15	13	18
SH504	120	25	21	18
SH505	240	25	21	18



SH220 SERIES ALUMINUM FOIL HEATERS

- Pressure Sensitive Adhesive Backing For Easy Installation
- Six Assorted Shapes and Wattages
- Available in 220 Volts, Special Order

PART NO.	VOLTS	WATTS	SIZE (in)	LEADS (in)
SH221	115	6	10 x 1	18
SH222	115	10	24 x 1 1/4	18
SH224	115	65	27 1/2 x 5 1/2	18
SH225	115	15	10 1/2 x 10 1/2	18
SH226	115	40	10 1/2 x 10 1/2	18



SH280 SERIES DOOR HEATERS MULLION & DEW POINT

- Prevents Moisture on Glass Display Doors
- Eliminates Frost Build Up on Doors & Cabinet Fronts

PART NO.	VOLTS	WATTS	SIZE (ft)
SH281	120	3	36 1/2
SH282	120	3	18
SH283	220	3	36
SH284	220	3	18



Motors

UNIT BEARING WATT MOTORS

For Commercial and Domestic Refrigeration Equipment, Room and Hood Ventilators, Room Heaters, Evaporative Coolers and Various Other Equipment.

- Cast Aluminum Housing Up to 16 Watts
- Cast Iron Housing for 35 to 50 Watts
- Single Speed, 1550 RPM
- Single Rotation
- Rotation is Determined by Viewing Opposite Shaft End (OSE)
- 50/60 Hz
- Totally Enclosed
- Overload Protected
- Permanent Lubrication
- Sleeve Bearings
- Universal Mounting
- Threaded Mounting Holes
- Hardware Included
- UL® Approved

Aluminum Unit Bearing

PART NO.	WATTS	VOLTS	AMPS	ROTATION	SHAFT DIAM. (IN.)	SHAFT LENGTH (IN.)
SM5109	2	120	0.28	CWOSE	1/4 Threaded	1/2
SM5211	4	120	0.36	CWOSE	1/4 Threaded	1/2
SM5212	4	120	0.32	CCWOSE	1/4 Threaded	1/2
SM5221	4	230	0.16	CWOSE	1/4 Threaded	1/2
SM5222	4	230	0.16	CCWOSE	1/4 Threaded	1/2
SM5311	6	120	0.52	CWOSE	1/4 Threaded	1/2
SM5312	6	120	0.43	CCWOSE	1/4 Threaded	1/2
SM5411	9	120	0.60	CWOSE	1/4 Threaded	1/2
SM5412	9	120	0.64	CCWOSE	1/4 Threaded	1/2
SM5421	9	230	0.32	CWOSE	1/4 Threaded	1/2
SM5422	9	230	0.32	CCWOSE	1/4 Threaded	1/2
SM5811	16	115	0.92	CWOSE	1/4 Threaded	1/2
SM5812	16	115	0.92	CCWOSE	1/4 Threaded	1/2
SM5821	16	230	0.48	CWOSE	1/4 Threaded	1/2
SM5822	16	230	0.48	CCWOSE	1/4 Threaded	1/2

Cast Iron Unit Bearing

PART NO.	WATTS	VOLTS	AMPS	ROTATION	SHAFT DIAM. (IN.)	SHAFT LENGTH (IN.)
SM351	35	120	1.4	CWOSE	1/4 Threaded	1/2
SM352	35	120	1.4	CCWOSE	1/4 Threaded	1/2
SM353	35	230	0.7	CWOSE	1/4 Threaded	1/2
SM354	35	230	0.7	CCWOSE	1/4 Threaded	1/2
SM501	50	120	1.7	CWOSE	3/8 Smooth Flatted	1/2
SM502	50	120	1.7	CCWOSE	3/8 Smooth Flatted	1/2
SM503	50	230	0.85	CWOSE	3/8 Smooth Flatted	1/2
SM504	50	230	0.85	CCWOSE	3/8 Smooth Flatted	1/2



SUPCO Unit Bearing Motors are Manufactured with the Highest Quality Components. They are Manufactured and Tested to Meet Our High Standards and Specifications.

Motors

REFRIGERATION

SM600 SERIES EXACT REPLACEMENT & UTILITY MOTOR KITS

- Versatile Replacement for All "C" Frame and 3 1/2" Round Style Motors
- Impedance Protected
- SM670, SM672 and SM673 Include Fan Blades FB402 and FB550
- SM675 is Thermal Protected
- SM675 Includes Fan Blade FB550 Only
- Motor Kits Include Complete Hardware and Mounting Kits

PART NO.	TYPE	VOLTS AC	RPM	CURRENT (AMPS)	SHAFT DIMENSIONS (IN.)	STACK SIZE (IN.)	ROTATION (REVERSIBLE)
SM670	Sleeve	120	3000	0.55	3/16 x 1 1/4	5/8	CW/CCW
SM671	Sleeve	120	3000	0.55	3/16 x 1 1/4	5/8	CW/CCW
SM672	Sleeve	240	3000	0.32	3/16 x 1 1/4	5/8	CW/CCW
SM673	Sleeve	120	3000/1550	.55/.32	3/16 x 1 1/4	5/8	CW/CCW
SM675	Sleeve	120/240	3000	1.0/5.0	3/16 x 2 3/8	1	CW/CCW



SM6700B MOTOR KIT ASSEMBLY

- Replaces Acme Miami® 700
- OEM Replacement for Bohn®, Heatcraft®, Uppco®, Singer®, GE® 33 Series
- Kit Includes Reversible Motor, Three Fan Blades, Hardware Kit and Instructions

SM6700B
Replacement Fan Blades
3/16" Hub



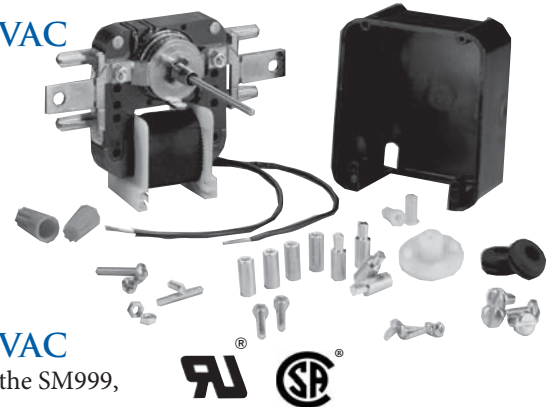
Specifications

VOLTS	HERTZ	AMPS	RPM	SHAFT SIZE (IN.)	STACK SIZE (IN.)	BEARING TYPE
120	60	.55	3000	3/16 x 1 1/4	5/8	Sleeve

FB402	4", CW, 5 Wing
FB455 (Bohn® 5101B)	5 9/16", CCW, 5 Wing
FB550	5 1/2", CCW, 4 Wing

SM999 UNIVERSAL EVAPORATOR FAN MOTOR KIT - 120 VAC

- Replaces Over 450 Different Evaporator Type Motors
- Prefastened Multi Fit, Break Off Mounting Bracket
- Break Off 2" Motor Shaft with Breakaways at 1/2" and 1 1/2"
- Includes All Mounting Accessories and Hardware
- Reversible Rotation
- Single Speed
- Shaft Diameter 1/8"



SM998 UNIVERSAL EVAPORATOR FAN MOTOR KIT - 220 VAC

- Includes the Same Features, Benefits, Applications and Specifications as the SM999, Except it Operates on 220 VAC 50/60 Hz.
- Direct Replacement for the Mars® 90998

PART NO.	DESCRIPTION
SM999	120 VAC, 3000 RPM, 1/200 hp, .31 Amp Impedance Protected
SM998	220 VAC, 3000 RPM, 1/200 hp, .31 Amp Impedance Protected

SM140-40A BLOWER FAN ASSEMBLY

- Direct Replacement Kit for Nutone® Bath Fans
- Replaces Nutone® Motor P/N K5895 and Kit P/N K5894
- Kit Includes Single Speed Motor, 3 3/4" x 2" Blower Wheel and Mounting Bracket
- Motor Includes 6" Wire Leads with Molded Plug



PART NO.	SPEED	RPM	VOLTS	AMPS	ROTATION	NUTONE®
SM140-40A	1	2400	115	0.9	CCWSE	K5894 Motor Kit K5895 Motor Only

Motor Brackets

MB55

MOTOR BRACKET MOUNTING KIT - 3 LEGS

- Designed For Direct Drive Blower Motors Using the Flexible Bracket Mounting Arrangement
- Grommets & Eyelets Included

Specifications

Motor Diameter	5", Bolt Circle 9" & 10.18"
Motor Diameter	5.5", Bolt Circle 9" & 10.18"



MB554

MOTOR BRACKET MOUNTING KIT - 4 LEGS

- Flexible Bracket
- Grommets & Sleeves Included

Specifications

Motor Diameter	5", Bolt Circle 9" & 10.18"
Motor Diameter	5.5", Bolt Circle 9" & 10.18"



Commercial Controls

ST100 SERIES

General Purpose Timer Switches

- Economical
- Electromechanical Switching
- Non-corrosive NEMA 1 Case
- Single Pole or Double Pole
- Switch Rating: 40A, Resistive



PART NO.	VOLTS	SWITCH	PARAGON®	INTERMATIC®	PRECISION®
			CROSS REFERENCE	CROSS REFERENCE	CROSS REFERENCE
ST101	120	SPST	4001-00	T101	CD101
ST102	240	SPST	4002-71	T102	CD102
ST103	120	DPST	4003-00	T103	CD103
ST104	240	DPST	4004-71	T104	CD104

Accessory

STPIN	Dial Pins	2 Pins Per Pack
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S8000 SERIES

Commercial Defrost Controls

- Heavy-duty Synchronous Motor
- Adjustable Defrost Frequency up to 6 Times Per Day
- Adjustable Cycle Duration from 4 to 110 Minutes
- Heavy-duty Steel Case

Specifications

Operating Voltages	120 or 208/240 VAC, 60 Hz
Amperage	40-Amp Non-inductive @ 120, 208 or 240 VAC
Maximum hp	2 hp @ 120, 208 or 240 VAC
Pilot Duty	690 VA @ 120, 208 or 240 VAC
Operating Temperature Range	-35°F to 175°F
Overall Case Dimensions	7.697" H x 4.4" W x 3.8" D
Shipping Weight	S8040 Series 3.5 lbs. & S8141 Series 3.75 lbs.

PART NO.	VOLTAGE	SWITCHING		TIME INITIATED TIME TERMINATED	TIME INITIATED TEMPERATURE OR PRESSURE TERMINATED	PARAGON® MODEL NO.
		NO NORMALLY OPEN	NC NORMALLY CLOSED			
S804100	120/60 Hz	1 NO / 2 NC		YES	NO	8041-00
S804120	240/60 Hz	1 NO / 2 NC		YES	NO	8041-20
S804500	120/60 Hz	1 NO / 1 NC		YES	NO	8045-00
S804520	240/60 Hz	1 NO / 1 NC		YES	NO	8045-20
S814100	120/60 Hz	1 NO / 2 NC		NO	YES	8141-00
S814120	240/60 Hz	1 NO / 2 NC		NO	YES	8141-20
S814500	120/60 Hz	1 NO / 1 NC		NO	YES	8145-00
S814520	240/60 Hz	1 NO / 1 NC		NO	YES	8145-20
S814521	240/50 Hz	1 NO / 1 NC		NO	YES	8145-21



Accessory

X3596	Dial Pins	5 Pins Per Pack
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M814520 EXACT FIT COMMERCIAL DEFROST MECHANISM

Exact Drop-in Replacement Mechanism for Paragon® 8145-20 and SUPCO® S814520



Sold in Convenient 6-Pack Counter Display!

Fan Blades

EXACT REPLACEMENT PLASTIC IMPELLERS

- Broan & Nutone Exact Replacement Impellers

PART NO.	REPLACES MFG. NO.	BLADE O.D.	HOLE I.D.
SB001	Nutone® 68920	4 5/8"	.181F
FB460	Broan® 9910379H	4 9/16"	.218



PLASTIC BLOWER WHEELS

PART NO.	SHAFT ROTATION	BOTTOM DIAMETER	DEPTH	TOP DIAMETER	OEM PART NO.
FB250	1/8" CW	2 1/2"	1"	2 11/16"	
FB590	1/4" CW	5 3/4"	2"	6 1/8"	Nutone® 59000A



PLASTIC VENT HOOD FAN BLADES

- Ducted & Non Ducted Vent Hoods

PART NO.	SHAFT	DIAMETER	NO. BLADES	ROTATION	PITCH	Volume
FB660	7/32"	6 5/8"	5	CW	25°	High
FB665	7/32"	6 5/8"	5	CW	12°	Standard

Use with SM500 series or SM700 series that have 7/32" w/ flat shaft.
Replaces Nutone 68929300 and many Broan blades.



PLASTIC FAN BLADES - GENERAL PURPOSE

- Celcon Plastic Construction
- Light Weight Design Reduces Bearing Wear & Vibrations
- 2 1/2" to 7" Diameter Sizes Available (1/2" increments)
- Integral Hub Available in 1/8", 3/16", 1/4" & 5/16" Sizes
- Color Coded Rotation White = CW Gray = CCW
- Eliminates Bent or Misaligned Blades
- Low Air Noise

PART NO.	SHAFT	DIAMETER	NO. OF BLADES	ROTATION
FB350	3/16"	3 1/2"	4	CW
FB401	1/8"	4"	5	CW
FB402	3/16"	4"	5	CW
FB403	1/8"	4"	5	CCW
FB404	3/16"	4"	5	CCW
FB501	3/16"	5"	5	CW
FB504	3/16"	5"	5	CCW
FB550	3/16"	5 1/2"	4	CCW

PART NO.	SHAFT	DIAMETER	NO. OF BLADES	ROTATION
FB601	3/16"	6"	6	CW
FB604	3/16"	6"	4	CCW
FB650	3/16"	6 1/2"	5	CW
FB651	1/4"	6 1/2"	5	CW
FB702	5/16"	7"	5	CW
FB703	1/4"	7"	5	CCW



ALUMINUM FAN BLADES - GENERAL PURPOSE

- 22 Gauge Aluminum Alloy Construction
- Light Weight Design Reduces Bearing Wear & Vibration
- 4" to 6 1/2" Diameter Sizes Available (1/2" increments)
- Slotted Set Screw Hub Sizes 3/16", 7/32" & 1/4"
- Clockwise or Counter Clockwise Rotations

PART NO.	SHAFT	DIAMETER	NO. OF BLADES	ROTATION	PITCH
FB152	3/16"	4"	10	CCW	35
FB157	1/4"	4 1/2"	10	CW	40
FB159	1/4"	4 1/2"	10	CCW	40

PART NO.	SHAFT	DIAMETER	NO. OF BLADES	ROTATION	PITCH
FB180	1/4"	6"	4	CW	20
FB182	7/32"	6"	4	CCW	20
FB190	7/32"	6 1/2"	4	CCW	20



Fan Blades

PLASTIC FAN BLADES - DIRECT REPLACEMENT AND HUB TYPE

- Available in Hub or Shaft Mount 1/8", 3/16"
- Clockwise & Counter Clockwise Rotations



PART NO.	SHAFT	DIAMETER	BLADES	ROTATION	REPLACEMENT FOR
FB353	HUB	4"	4	CCW	Whpl/Cldspt® 513543
FB450	1/8"	4 1/2"	5	CCW	GE® WR60X114
FB455	3/16"	5 9/16"	5	CCW	Bohn® 5101B

ALUMINUM CONDENSER FAN BLADES

- Aluminum Construction
- 6" to 10" Diameter
- Clockwise & Counter Clockwise Rotations
- 5 Blades

PART NO.	DIAMETER	NO. OF BLADES	ROTATION	PITCH
FB101	6"	5	CW	30°
FB103	7"	5	CCW	20°
FB104	7"	5	CW	20°
FB105	8"	5	CCW	20°
FB106	8"	5	CW	20°
FB107	8 3/4"	5	CW	20°
FB108	10"	5	CCW	29°
FB109	10"	5	CW	22°



Compressors

SPC660L, SPC836L, SPC990L COMPRESSORS

Refrigeration Compressors Include Electrical Accessories, Grommets and Sleeves.

- Compact 4" x 6" Footprint
- 60 Hz.
- 110V/120V
- Low Back Pressure
- Relay Start Capacitor Run (PTC)
- Relay Start Capacitor Run (RSCR)

PART NO.	HP	BTU	AMPS	WATTS
SPC660L	1/5	660	1.2	126
SPC836L	1/4	990	2.5	181
SPC990L	1/4	836	2.2	196



SPC600L



SPC836L



SPC990L

Vacuum & Pressure Gauges

VG640D & VG640 VACUUM SENTRY

Choose Between Single Port or NEW DUAL Port

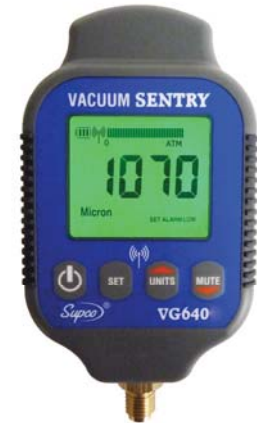
- Multi-Point Sensor Technology
- BEST Resolution (0.5 Micron)
- Easy-to-Clean LIFETIME Sensor Never Needs Replacing
- Large, Backlit Display
- High & Low, Audible and Visual Threshold Alarms
- Built-in Hanger
- 1/4" Male Flare Connection
- 2 Year Warranty

Specifications

Sensor Type	Thermistor
Connector Type	Standard 1/4 Inch Male Flare Fitting
Vacuum Range	0-19,000 Micron (0-2,600 Pascal)
Resolution	Measurement Range Resolution
	0-140 0.5 Microns
	140-400 1 Microns
	400-800 2 Microns
	800-2000 5 Microns
	2000-6000 20 Microns
	6000-9000 100 Microns
	9000-16000 200 Microns
	16000-19000 1000 Microns
Units	Microns, milliBar, Pascal, Torr, milliTorr
Accuracy	+/-10% or +/-10 Micron, whichever is larger (50 to 2000 Microns) at 75°F
Update Rate	0.5 sec.
Alarm	Audible and Visual Alarm for High and Low Vacuum
Remote Alarm (R100)	Up to 400 ft Remote Audible, Visual and Vibrating Alarm for High and Low Vacuum
Alarm Volume	87 dB for Both Unit and Remote
Op.Temp. Range	0°F to 150°F (-17°C to 65°C)
Overpressure	800 PSI max (55 Bar)
Power Source	3 AA Batteries
Battery Life	600 Hours Continuous Usage, with Battery Indicator
Auto Shutoff	8 Hours when Alarms are Active When Alarms are Disabled:
	• 10 Minutes when Vacuum Reading is above 19,000 Microns
	• 1 Hour when Vacuum Reading is below 19,000 Microns
Weight	6 oz
Dimensions	5.5" H x 2.75" W x 1.5" D



VG640D



VG640

Accessories

VGC	Vacuum Gauge Coupler
10475	120 Volt AC Adapter
10740	Vinyl Case

R100

Remote Alarm Receiver

- Audible, Visual and Vibrating Alarm
- Integrated Belt Clip



Specifications

Distance	Up to 400 ft.*
Alarm	Audible
Alarm Volume	87 dB
Operating Temperature	-20°F to 160°F
Range	(-28°C to 70°C)
Power Source	9 V Battery
Battery Life	45 Hours
	Continuous Usage, with Low Battery Audible Indicator.
Weight	3 oz
Dimensions	5.0" H x 2.5" W x 1.0" D

* Distance is measured when the remote receiver is within a direct line of sight of the VG640/VG640T/VG640D. Obstructions between the remote and the VG640/VG640T/VG640D can reduce this distance.

VGC

Vacuum Gauge Coupler



Scan for VG640 video

VG640T Kit Includes:

- VG640
- R100
- VGC, Vacuum Gauge Coupler
- Soft Case



Vacuum & Pressure Gauges



TEST INSTRUMENTS

VG64 & VG64S

Digital Vacuum Gauge

- Ultra Fine Resolution
- Reads Vacuum in 7 International Units
- Display Updates Every 1/2 Second
- Convenient Built in Hanger
- Cleaning Port Provides Quick Cleaning and Drying of Sensor
- Low Battery Indicator
- VG64S has Single Port Connection (includes fitting)

Specifications

Sensor Type	Thermistor	
Connector Type	Standard 1/4" Male Flare Fitting	
Vacuum Range	0-12,000 Microns (0-1,600 Pascals)	
Scale	Microns, PSI, InHg, milliBars, Pascals, Torr, milliTorr	
Resolution	Measurement Range	Resolution
	0-200	1 Microns
	201-500	5 Microns
	501-1,000	10 Microns
	1,001-2,000	50 Microns
	2,001-5,000	250 Microns
	5,001-8,000	500 Microns
	8,001-12,000	1,000 Microns
Operating Temperature Range	35°F to 125°F (2°C to 52°C)	
Overpressure	500 PSI Max (20 Bar)	
Accuracy	+/- 10% (100-1000 Micron)	
Power Source	9 V Battery (not included)	
Auto Shutoff	Yes	
Dimensions	5 1/2" x 3" x 1 1/4"	



VG64



VG64S Fitting VG64S

VG60

ELECTRONIC VACUUM GAUGE

10 Segment Color Coded LED Readout Provides Fast Response of Vacuum Measurements

- Pocket Size - Only 5 1/2" x 1 3/4" x 1 1/2"
- Cleanable Sensor
- Single Switch Operation
- Low Battery Indication
- Color Coded LED Display

Specifications

Sensor Type	Thermistor
Connector Type	Standard 1/4" Male Flare Fitting
Vacuum Range	50-5,000 Microns
Scale	Microns, 10 LED Segments Atmosphere to 50 Microns
Overpressure	500 PSI Max (20 Bar)
Power Source	9 V Battery (not included)
Auto Shutoff	No
Dimensions	5 1/2" x 1 3/4" x 1 1/2"
Weight	6.8 oz.
Operating Temperature Range	35°F to 125°F (2°C to 52°C)



VG61

ELECTRONIC VACUUM GAUGE

Enjoy the Same Features as the VG60 in a Durable Hard Case. Sensor Cord Extends to 5 Feet

- Cleanable Sensor
- Single Switch Operation
- Low Battery Indication
- Color Coded LED Display

Specifications

Sensor Type	Thermistor
Connector Type	Standard 1/4" Male Flare Fitting
Vacuum Range	50-5,000 Microns
Scale	Microns, 10 LED Segments Atmosphere to 50 Microns
Operating Temperature Range	35°F to 125°F (2°C to 52°C)
Overpressure	500 PSI Max (20 Bar)
Power Source	9 V Battery (not included)
Auto Shutoff	No
Dimensions	9 1/2" x 6 3/4" x 2 3/4"
Weight	1.8 lbs.



Vacuum & Pressure Gauges



TEST INSTRUMENTS

VG65
PROFESSIONAL SERIES
DIGITAL VACUUM GAUGE
 Same Great Specifications as the VG64 in a Rugged Service Case

- Extendable Service Card

Specifications

Sensor Type	Thermistor	
Connector Type	Standard 1/4" Male Flare Fitting	
Vacuum Range	0-12,000 Microns (0-1,600 Pascals)	
Scale	Microns, PSI, InHg, milliBars, Pascals, Torr, milliTorr	
Resolution	Measurement Range	Resolution
	0-200	1 Microns
	201-500	5 Microns
	501-1,000	10 Microns
	1,001-2,000	50 Microns
	2,001-5,000	250 Microns
5,001-8,000	500 Microns	
Overpressure	500 PSI Max (20 Bar)	
Accuracy	+/- 10% (100-1000 Microns)	
Power Source	9 V Battery (not included)	
Auto Shutoff	Yes	
Dimensions	5 1/2" x 3" x 1 1/4"	
Weight	1 lb. 11 oz.	



VG66
PROFESSIONAL SERIES ANALOG
VACUUM GAUGE

- 5 Inch Analog Display
- Cleanable Vacuum Sensor
- Low Battery Indicator
- Expandable Sensor Cord (Up to 6 ft.)
- Sensor Cord Extendable Using Standard Telephone Cord
- Rugged Service Case

Specifications

Sensor Type	Thermistor
Connector Type	Standard 1/4" Male Flare Fitting
Vacuum Range	10-5,000 Micron
Scale	Microns, Torr
Overpressure	500 PSI Max (20 Bar)
Power Source	9 V Battery (not included)
Auto Shutoff	N/A
Dimensions	9 1/4" x 7 1/2" x 2 3/4"
Weight	2 lbs. 6 oz.



DPG25V/DPG100/DPG1000
DIGITAL PRESSURE GAUGES

The DPG Series Features Multiple Units, Selectable Zero Reference and Automatic Power Off to Conserve Battery Power. The DPG100/DPG1000 Can be Used with Any Media Compatible with 17-4PH Stainless Steel.

- High Accuracy
- Measurement Units PSI, Bar, kg/cm², ATM
- Easy to Use
- Stainless Steel Sensor
- No Welds or "O" Rings
- 1/8 NPT Female Connection
- Long Battery Life
- 1 Hour Auto Off



DPG SERIES COMMON SPECIFICATIONS	
Stability (1 year)	±0.25% FS (typ)
Overrange Protection	2X Rated Pressure
Burst Pressure	5X or 20,000 psi whichever is less.
Pressure Cycles	> 100 Million
Operating Temperature Range	32°F to 130°F (0°C to 55°C)
Storage Temperature Range	-40°F to 150°F (-40°C to 65°C)
Compensated Temperature Range	32°F to 130°F (0°C to 55°C)
Temperature Compensation Zero	< ± 1.5% of FS
Temperature Compensation Span	< ± 1.5% of FS
Pressure Sensor Connection	1/8 NPT Female
Update Rate	3 Samples per Second (typ)
Power	9 Volt Alkaline Battery
Automatic Power Off	1 Hour
Battery Life	100 Hours Continuous Operation (typ)

	DPG25V	DPG100	DPG1000
Pressure Range	-14.7 to 25 PSI	-14 to 100 PSI	-14 to 1000 PSI
Measurement Units	InHg, PSI,	PSI, BAR, Kg/cm ² , ATM	PSI, BAR, Kg/cm ² , ATM
Resolution PSI	0.1	0.1	1.0
InHg	0.01	*	*
BAR	*	0.01	0.1
Kg/cm	*	0.01	0.1
Atm	*	0.01	0.1
Accuracy	< ± 0.5% (includes Non-linearity, Hysteresis and Non-repeatability)		

Chart Recorders



CRTH2 TEMPERATURE/HUMIDITY/ DEW POINT RECORDER

Selectable Chart Speeds from 1 1/2 hours to 31 days.

- Measures Temperature, Humidity and Dew Point
- Advanced, Reliable Micro-controller Design
- Built-in “Last Setting” Memory
- Two (2) line LCD Display
- Easy-to-use Membrane Keypad
- All Functions User Selectable from Front Panel
- °F/°C Selectable
- Remote Combination Temperature/Humidity Probe with 6 Foot Cable
- Field Calibration of Probe
- Combination of 24 Speed and Temperature Ranges
- 6” Circular Chart
- Chart Number Displayed when Time & Temperature Ranges Selected
- Single Turn or Continuous Chart Rotation
- Two (2) Independent Pens
- Alarm with Delay for Over and Under Temperature & Humidity
- Audible and Visual Alarm Indication
- Remote Alarm or Telephone Dialer Connection (Optional Auto-dialer - ADTA)
- Standard 120 VAC Operation
- Optional 12 VDC Operation for Auto or Marine
- 48 Hour Battery Back-up
- Low Battery Warning on Display
- Durable Polycarbonate Case with Full-view Cover
- Free Standing or Wall Mount
- Snap-on Extra Support Legs
- Fold Away Carrying Handle

Specifications

Temp Range/Accuracy	-40°F to 130°F +/- 2°F (-40°C to 55°C +/- 1°C)
RH Range/ Accuracy	0 to 90% (non condensing) at 32°F to 130°F +/- 2% (0°C to 55°C) ambient
Dew Point Range	32°F to 130°F (0° to 55°C)
Chart Diameter	6 inches
Chart Rotation Mode	Continuous or Single turn
Chart Rotation Speed	1.5, 3, 6, 12 & 24 hrs, 7 & 31 days
Chart Speed Accuracy	± 1%
Charts	60 assorted included
Display	LCD 16 characters x 2 lines
Temperature Alarm Range	-20°F to 120°F (-30°C to 50°C)
Relative Humidity Alarm Range	0 to 100%
Alarm Delay	NO DELAY, 10 mins., 30 mins., 1 hr. or 2 hrs.
Remote Alarm Connection	NO, 48 VAC/DC, 0.1 A resistive load
Ambient Operating Temperature	32°F to 120°F (0°C to 49°C)
Primary Power	120 VAC, 50/60 Hz (220 VAC, 50/60 Hz optional)
Alternate Power	12 V vehicle operation (need optional adapter)
Battery backup	8 AA alkaline batteries (not included)
Battery Life	48 hrs. continuous
Dimensions	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs. 15 oz.



Accessories

PART NO.	DESCRIPTION
KTH	Temperature/ Humidity Probe
CABLE10H	Extension cable for KTH (2 max)
CRPENR	Red Recorder Pen
CRPENB	Blue Recorder Pen
CRT	120 VAC Power Adapter
CRT220	220 VAC Power Adapter
CRTH2	120V 50/60 Hz
CRTH2-220	220V 50/60 Hz
ADTA	Auto-Phone Dialer

Recorder Charts

TEMPERATURE RANGE 1	HUMIDITY RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	0-100% Humidity	E20120F12	E20120F24	E20120F7	E20120F31
-20°F to 50°F	0-100% Humidity	E2050F12	E2050F24	E2050F7	E2050F31
40°F to 110°F	0-100% Humidity	E40110F12	E40110F24	E40110F7	E40110F31
-30°C to 50°C	0-100% Humidity	E3050C12	E3050C24	E3050C7	E3050C31
-30°C to 10°C	0-100% Humidity	E3010C12	E3010C24	E3010C7	E3010C31
5°C to 45°C	0-100% Humidity	E545C12	E545C24	E545C7	E545C31

Chart Recorders

SR SERIES STRIP CHART RECORDERS

The SR Series Strip Chart Recorders Provide Long Length Recordings with Maximum Detail.

- LCD Alphanumeric Display
- Adjustable Chart Speed (1/4 inch per hour to 2 inches per minute)
- Recording Length: 2 hours to 40 Days
- Over/Under Alarm with 100ma N.O. Relay and Audible Alarm
- Delay/No Delay Alarm
- Battery Backup
- 220V Operation (optional)
- RS-232C Port
- Use Inches or mm Charts
- Field Calibrated with User Adjustments
- Free Standing or Wall Mount
- Chart Length 20' (2 Included)

SR Series Common Specifications

Display	Alphanumeric LCD 16 Characters 2 Line	
Chart	Strip Chart (20' x 4 3/4")	
Chart Speeds	1/4 inch/hour	1/2 cm/hour
	1 inch/hour	2 cm/hour
	2 inches/hour	4 cm/hour
	4 inches/hour	8 cm/hour
	8 inches/hour	16 cm/hour
	1/4 inch/minute	1/2 cm/minute
	1/2 inch/minute	1 cm/minute
	1 inch/minute	2 cm/minute
	2 inches/minute	4 cm/minute
Chart Speed		
Accuracy	+/- 1%	
Alarm Delay		
Range	No Delay, 10 min., 30 min., 1 hr., 90 min., or 2 hr.	
Remote Alarm		
Connection	N.O. 48 VAC/DC, 0.1 Amp Dry Contacts	

Operating Ambient	32°F to 125°F
Temperature Range	(0° to 50°C)
Storage Temperature	0°F to 125°F (-18°C to 50°C)
Primary Power	120 VAC, 50/60 Hz Adapter (220-240 VAC, 50 Hz. Optional)
Backup Power	8 AA Alkaline Batteries (not supplied)
Alternative Power	12 Volt Vehicle Operation with Optional Adapter
Power Consumption	3.5 Watts Max.
Mounting	Vertical or Horizontal, Free Standing or Wall Mounted
Dimensions	9.25" x 7.25" x 2" (235mm x 184mm x 51mm)
Weight	2.5 lb. (1.3 kg)

SRB - TEMPERATURE RECORDER

- Temperature Ranges: -40°F to 150°F (-40°C to 60°C)
- Remote Readings From up to 100 ft. (CABLE 10T Optional)
- Programmable Speed and Temperature Ranges

Specifications

Range	-40°F to 150°F (-40°C to 60°C)
Chart Ranges	-40°F to 60°F -40°C to 60°C 50°F to 150°F -30°C to 20°C 0°F to 100°F 0°C to 50°C
Accuracy	+/-2°F +/-1°C
Probe	TP15 Temperature probe with 15' cable (cable extension is available)
Alarm Range	-40°F to 150°F (-40°C to 60°C)



Accessories

ADTA	Automatic Dialer
CABLE10T	10' Cable
CRPEN	Black Pen
CRPENB	Blue Pen
CRPENR	Red Pen
CRT	Power Adapter
CRT220	Power Adapter
CRT220UK	Power Adapter
SCR11	Strip Chart (American Scale) (20')
SCR12	Strip Chart (Metric Scale) (20')
TP15	15' Wire with 4" Stainless Steel Sensor
12070-001	Pen Arm Short

Chart Recorders

TEST INSTRUMENTS

SRTH - TEMPERATURE/HUMIDITY RECORDER

- Temperature Ranges: -40°F to 150°F (-40°C to 60°C)
- Humidity Range: 5 to 90% RH
- Programmable Speed and Temperature Ranges

Specifications

Range	-40°F to 150°F (-40°C to 60°C)
	5 to 90% RH
Chart Ranges	-40°F to 60°F
	-40°C to 60°C
	50°F to 150°F
	-30°C to 20°C
	0°F to 100°F
	0°C to 50°C
Accuracy	+/-2°F
	+/-1°C
	(5 to 90% RH)
Probe	KTH Temperature
	Humidity with 6' cable
	90% RH (Non-condensing)
Alarm Range	-40°F to 150°F
	(-40°C to 60°C)
	5 to 90% RH



Accessories

ADTA	Automatic Dialer
CABLE10H	Extension Cable for KTH
CABLE15	15' Cable for Sensor Probes
CABLE25	25' Cable for Sensor Probes
CABLE6	6' Cable for Sensor Probes
CRPEN	Black Pen
CRPENB	Blue Pen
CRPENR	Red Pen
CRT	Power Adapter
CRT220	Power Adapter
CRT220UK	Power Adapter
KTH	Temperature Humidity Probe
SCR11	Strip Chart (American Scale) (20')
SCR12	Strip Chart (Metric Scale) (20')

SRJ - J-TYPE THERMOCOUPLE TEMPERATURE RECORDER

- Temperature Ranges: -40°F to 1000°F (-40°C to 500°C)
- Remote Readings from up to 2,000 ft. (Use TCW25, TCW50, TCW75, TCW100)
- Programmable Speed and Temperature Ranges

Specifications

Range	-40°F to 1000°F (-40°C to 500°C)
Chart Ranges	-40°F to 60°F
	-40°C to 60°C
	0°F to 250°F
	-30°C to 20°C
	50°F to 150°F
	0°C to 50°C
	0°F to 100°F
	0°C to 100°C
	0°F to 500°F
	0°C to 500°C
	0°F to 1000°F
Accuracy	+/-2°F
	+/-1°C
Probe	6' High Temperature Thermocouple Probe
Alarm Range	-40°F to 1000°F
	(-40°C to 500°C)



Accessories

ADTA	Automatic Dialer
CRPEN	Black Pen
CRPENB	Blue Pen
CRPENR	Red Pen
CRT	Power Adapter
CRT220	Power Adapter
CRT220UK	Power Adapter
HTP5	6' High Temperature Thermocouple Wire
HTP5100	100' High Temperature Thermocouple Wire
HTP515	15' High Temperature Thermocouple Wire
HTP525	25' High Temperature Thermocouple Wire
HTP550	50' High Temperature Thermocouple Wire
SCR11	Strip Chart (American Scale) (20')
SCR12	Strip Chart (Metric Scale) (20')
TCW100	Type J Thermocouple Wire - 100' Wire Only
TCW25	Type J Thermocouple Wire - 25' Wire Only
TCW50	Type J Thermocouple Wire - 50' Wire Only
TCW75	Type J Thermocouple Wire - 75' Wire Only
12070-001	Pen Arm Short

Chart Recorders

SR4-20 4 TO 20mA AND DC VOLTAGE RECORDER

- Current Range: 0 to 20mA, 4 to 20mA
- Voltage Range: 0 to 5 VDC, 0 to 100 mV
- Programmable Speed and Current and Voltage Ranges

Specifications

Range	0-5.0 Volts DC 0-20ma DC 4-20ma DC
Chart Ranges	0 to 5.00 Volts (+/-0.01 Volt) 0 to 100 mV (+/-1 mV) 0 to 20mA (+/-0.1mA) 4 to 20 mA (+/-0.1mA)
Accuracy	0 to 5.00 Volts (+/-0.01 Volt) 0 to 100mV (+/-1mV) 0 to 20mA (+/-0.1mA) 4 o 20mA (+/-0.1mA)
Alarm Range	0 to 20ma (DC) 0 to 5 Volts (DC) 0 to 100mV (DC)



Accessories

ADTA	Automatic Dialer
CRPEN	Black Pen
CRPENB	Blue Pen
CRPENR	Red Pen
CRT	Power Adapter
CRT220	Power Adapter
CRT220UK	Power Adapter
SCR11	Strip Chart (American Scale) (20')
SCR12	Strip Chart (Metric Scale) (20')
12070-001	Pen Arm Short

Chart Recorders



CIRCULAR CHART RECORDERS

The CR87 Six Inch Chart Recorder Series sets the Standard for Reliable and Rugged Reporting.

- Micro-controller Design
- Large LED Display
- Front Panel Controls
- Single or Continuous Chart Rotation
- Choose from 120V or 220V Models (see chart)
- Battery Backup
- 12 Volt Operation. Allows Use in Vehicular or Marine Operations
- Comes with 2 Cartridge Pens & 60 6" dia. assorted charts
- Convenient Folding Handle
- Fold-out Support Stand
- Free Standing or Wall Mount



CR87B TEMPERATURE RECORDER

- Temperature Range: -40°F to 120°F (-40°C to 50°C)
- Remote Readings from Up to 100 ft. (optional sensor wire p/n CABLE10T)
- Programmable Speed and Temperature Ranges
- 12 Recorders in 1



MODEL NO.	TEMP. READING IN	OPERATING VOLTAGE
CR87B	Fahrenheit	110-120V, 50/60 Hz
CR87BC	Celsius	110-120V, 50/60 Hz
CR87B220C	Celsius	220-240V, 50/60 Hz

CR87B Series Recording Charts

TEMP. RANGE	6 HRS.	24 HRS.	7 DAYS	31 DAYS
-40°F to 30°F	CR87-4	CR87-1	CR87-7	CR87-19
-20°F to 50°F	CR87-5	CR87-2	CR87-8	CR87-20
50°F to 120°F	CR87-6	CR87-3	CR87-9	CR87-21
-40°C to 0°C	CR87-13	CR87-10	CR87-16	CR87-22
-30°C to 10°C	CR87-14	CR87-11	CR87-17	CR87-23
10°C to 50°C	CR87-15	CR87-12	CR87-18	CR87-24

Accessories

PART NO.	DESCRIPTION
TP15	15' wire with 4" stainless steel sensor
CABLE10T	10' Cable 100 ft. Max
11234	Pen Arm
CRPEN	Replacement Pen Black

Specifications

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
CR87B Chart	6 Hours, 24 Hours, Speed Selectable
Chart Rotation Mode	7 Days, 31 Days
Chart Speed Accuracy	Single Turn or Continuous
Chart Diameter	+/-1%
Display	6 inches
Primary Power Supply	3 Digit LED 0.5"
	120 VAC, 50/60 Hz. (220-240 VAC, 50/60 Hz. Optional CR87B-220)
Battery Backup	12 Volt Vehicle Operation With Optional Adapter (8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Temp. Scale Selectable (°F)	-40°F to 30°F, -20°F to 50°F, 50°F to 120°F
Temp. Scale Selectable (°C)	-40°C to 0°C, -30°C to 10°C, 10°C to 50°C
Temp. Accuracy	+/-1°C or +/-2°F
Temp. Sensor	15' Long Sensor Wire with 4" Stainless Steel Submersible Temp. Probe

Chart Recorders

CR87J TEMPERATURE RECORDER

- Type J Thermocouple
- Temperature Range: -40°F to 120°F (-40°C to 50°C)
- Remote Readings
- Programmable Speed and Temperature Ranges
- Snap-on Support Legs
- Remote Readings from Up to 200 ft. (see accessory table)



MODEL NO.	TEMP. READING IN	OPERATING VOLTAGE
CR87J	Fahrenheit	110-120V, 50/60 Hz
CR87JC	Celsius	110-120V, 50/60 Hz
CR87J220C	Celsius	220-240V, 50/60 Hz

Type J Thermocouple Wires

PART NO.	DESCRIPTION
TCW25	25' Wire Only
TCW50	50' Wire Only
TCW75	75' Wire Only
TCW100	100' Wire Only

CR87J Series Recording Charts

TEMP. RANGE	6 HRS.	24 HRS.	7 DAYS
-40°F to 30°F	CR87-4	CR87-1	CR87-7
-20°F to 50°F	CR87-5	CR87-2	CR87-8
50°F to 120°F	CR87-6	CR87-3	CR87-9
-40°C to 0°C	CR87-13	CR87-10	CR87-16
-30°C to 10°C	CR87-14	CR87-11	CR87-17
10°C to 50°C	CR87-15	CR87-12	CR87-18

Accessories

PART NO.	DESCRIPTION
CR15B	15' wire with 4" stainless steel temperature sensor
11234	Pen Arm
CRPEN	Replacement Pen Black

Specifications

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart Speed Selectable	6 Hours, 24 Hours, 7 Days, 31 Days
Chart Rotation Mode	Single Turn or Continuous
Chart Speed Accuracy	+/-1%
Chart Diameter	6 inches
Display	3 Digit LED 0.5"
Primary Power Supply	120 VAC, 50/60 Hz. (220-240 VAC, 50/60 Hz. 12 Volt Vehicle Operation With Optional Adapter)
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Temp. Scale, Selectable (°F)	-40°F to 30°F, -20°F to 50°F, 50°F to 120°F
Temp. Scale, Selectable (°C)	-40°C to 0°C, -30°C to 10°C, 10°C to 50°C
Temp. Accuracy	+/-1°C or +/-2°F
Temp. Sensor	15' Long Sensor Wire with 4" Stainless Steel Submersible Temp. Probe

CR87HT HIGH TEMPERATURE RECORDER

- Temperature Range: 0°F to 1000°F (0°C to 500°C)
- Remote Readings from Up to 2000 ft.
- Programmable Speed and Temperature Ranges
- Snap-on Support Legs



MODEL NO.	TEMP. READING	OPERATING VOLTAGE
CR87HT	Fahrenheit	110-120V, 50/60 Hz.
CR87HT22C	Celsius	220-240V, 50/60 Hz.
CR87HT220	Fahrenheit	220-240V, 50/60 Hz.
CR87HTC	Celsius	110-120V, 50.60 Hz.

CR87HT Series Recording Charts

TEMP. RANGE	6 HRS.	24 HRS.	7 DAYS	31 DAYS
0°F to 250°F	CR1000-4	CR1000-1	CR1000-7	CR1000-19
0°F to 500°F	CR1000-5	CR1000-2	CR1000-8	CR1000-20
500° to 1000°F	CR1000-6	CR1000-3		
0°C to 120°C	CR1000-13	CR1000-10	CR1000-16	CR1000-22
0°C to 250°C	CR1000-14	CR1000-11	CR1000-17	CR1000-23
250° to 500°C	CR1000-15	CR1000-12	CR1000-18	CR1000-24

Accessories

PART NO.	DESCRIPTION
HTP5	6' high temperature thermocouple wire
HTP515	15' high temperature thermocouple wire
HTP525	25' high temperature thermocouple wire
HTP550	50' high temperature thermocouple wire
HTP5100	100' high temperature thermocouple wire
11234	Pen Arm
CRPEN	Replacement Pen Black

Specifications

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart Speed Selectable	6 Hours, 24 Hours, 7 Days, 31 Days
Chart Rotation Mode	Single Turn or Continuous
Chart Speed Accuracy	+/-1%
Chart Diameter	6 inches
Display	3 Digit LED 0.5"
Primary Power Supply	120 VAC, 50/60 Hz. (220-240 VAC, 50/60 Hz. 12 Volt Vehicle Operation With Optional Adapter)
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Temp. Scale, Selectable (°F)	0°F to 250°F, 0°F to 500°F, 500°F to 1000°F
Temp. Scale, Selectable (°C)	0°C to 120°C, 0°C to 250°C, 250°C to 500°C
Temp. Accuracy	+/-1°C or +/-2°F
Temp. Sensor	6' Long High Temperature Type "J" Thermocouple Wire Probe. Can Not Be Used in Liquid or Semi-Solid.

Chart Recorders

CR87P/CR87PB PRESSURE RECORDER

- Pressure Range 0 to 500 psi (0 to 35 BAR)
- Stainless Steel 17-4 Pressure Sensor with Port 1/4" NPT
- 2500 PSI Burst Pressure
- Rated for Any Gas or Fluid Compatible with 17-4 Stainless Steel
- Programmable Speed and Pressure Ranges
- Snap-on Support Legs



Specifications

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart	6 Hours, 24 Hours, Speed Selectable
Chart Rotation Mode	7 Days, 31 Days
Chart Speed Accuracy	Single Turn or Continuous
Chart Diameter	+/-1%
Display	6 inches
Primary Power Supply	3 Digit LED 0.5" (220-240 VAC, 50/60 Hz. 12 Volt Vehicle Operation With Optional Adapter)
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
Pressure Range	0 to 500 psi, 0 to 150 psi
PSI Model	0 to 50 psi
Pressure Range	0 to 35 BAR, 0 to 10 BAR
BAR Model	0 to 3.5 BAR
Pressure Accuracy	+/- 1% F.S.
Temp. Sensor	+/- 1% F.S.

MODEL NO.	TEMP READING IN	OPERATING VOLTAGE
CR87P	PSI	110-120V, 50/60Hz.
CR87P220	PSI	220-240V, 50/60Hz.
CR87PB	BAR	110-120V, 50/60 Hz.
CR87PB220	BAR	220-240V, 50/60 Hz.

CR87PB Series Recording Charts

PRESSURE RANGE	24 HRS.	7 DAYS
0 - 35 BAR	24H35BAR	7D35BAR
0 - 10 BAR	24H10BAR	7D10BAR
0 - 3.5 BAR		7D3.5BAR

Accessories

PART NO.	DESCRIPTION
CR87PA	Replacement pressure sensor and adapter
11234	Pen Arm
CRPEN	Replacement Pen Black

CR87P Series Recording Charts

RANGE	6 HRS.	24 HRS.	7DAYS	31DAYS
0 - 500 PSI	6H500PSI	24H500PSI	7D500PSI	31D500PSI
0 - 150 PSI	6H150PSI	24H150PSI	7D150PSI	31D150PSI
0 - 50 PSI	6H50PSI	24H50PSI	7D50PSI	31D50PSI

CR87E EVENT RECORDER

- Comes Complete with Probes for Voltage, Sound and Light
- Displays Length of Event, Time Between Events or Total Events
- Programmable Speed and Event Information
- Snap-on Support Legs

PART NO.	OPERATING VOLTAGE
CR87E	110-120 VAC, 50/60 Hz
CR87E220	220-240 VAC, 50/60 Hz



CR87E Series Recording Charts

6 HRS.	24 HRS.
EVENT-6H	EVENT-24H
7 DAYS	31 DAYS
EVENT-7D	EVENT-31D

Event Sensors for CR87E

PART NO.	DESCRIPTION
KEV	Replacement voltage sensor with adapter
KEL	Replacement light sensor with adapter
KES	Replacement sound sensor with adapter
11234	Pen Arm
CRPEN	Replacement Pen Black

Specifications

Ambient Operating Temperature Range	32°F to 140°F (0°C to 60°C)
Ambient Operating Relative Humidity	96% Maximum
Chart	6 Hours, 24 Hours, Speed Selectable
Chart Rotation Mode	7 Days, 31 Days
Chart Speed Accuracy	Single Turn or Continuous
Chart Diameter	+/-1%
Display	6 inches
Primary Power Supply	3 Digit LED 0.5" (220-240 VAC, 50/60 Hz. 12 Volt Vehicle Operation With Optional Adapter)
Battery Backup	(8) AA Alkaline Batteries (not supplied)
Battery Life	48 Hours Continuous Use
Recording Pen	Ink Type
Case Size	9 1/4" x 7 1/4" x 2 3/4"
Weight	4 lbs., 7 oz.
KEV Range	24 VAC to 270 VAC (50/60 Hz) 24 VDC to 180 VDC
KEL Range	Illumination Threshold Range 18 LUX to 1900 LUX +/- 20
KES Range	Sound Threshold Range 40 dB to 114 dB @ 1Khz +/-20%
EVENT PROBES	
KEV	AC/DC Voltage Detecting with Two Wire Clip Leads
KEL	A Sensitive Photocell
KES	A Sensitive Audio Transducer

Chart Recorders

CUSTOM SERIES TEMPERATURE RECORDER

The Custom Series Temperature Recorders have the Same General Features as the CR87 Series, with the Ability to Customize your Temperature Measurement Range. The Custom Unit has an Internal Temperature Sensor and can be Placed Directly in the Environment that it will Monitor.

- Internal Bi-metal Sensor
- Custom Temperature and Speed Selection
- 9V Battery Operation (not included)
- AC Adapter
- Snap-on Support Legs



Note: Standard 6" diameter recording charts are available for Fahrenheit and Celsius recorders, and are packaged in quantities of 60 per box.

Custom Series Recording Charts

MODEL NO.	WITH DISPLAY	TEMP. RANGE	RECORD TIME
SD120F7		-20°F to 120°F	7 Days
SD120F24		-20°F to 120°F	24 Hrs
SD100F7		0°F to 100°F	7 Days
SD50C7		-30°C to 50°C	7 Days

SD MODELS	7 DAYS	24 HOURS
-20°F to 120°F	S20120F7	S20120F24
0°F to 100°F	S0100F7	S0100F24
45°F to 90°F	S4590F7	S4590F24
-30°C to 50°C	S3050C7	S3050C24
0°C to 45°C	S045C7	S045C24

Specifications

Chart Speed	+/-1.5%
Accuracy	
Chart Diameter	6"
Case Size	9 1/4" x 7" x 2 3/4"
Weight	5 lbs.
Battery Life	One year
Temperature Accuracy	+/-2°F
Temperature Sensor	Bi-metal

Common Recorder Accessories

Type J Thermocouple Wire with Sensor for CR87J

PART NO.	DESCRIPTION
CR15B	15' wire with 4" stainless steel sensor (included)
CR25B	25' wire with 4" stainless steel sensor
CR50B	50' wire with 4" stainless steel sensor

PART NO.	DESCRIPTION
CR75B	75' wire with 4" stainless steel sensor
CR100B	100' wire with 4" stainless steel sensor



Power Adapters

(FOR CR87B, CR87E, CR87P, CR87HT, CR86, CRTH2 & CRTT2)		
PART NO.	INPUT	OUTPUT
CRT (USA)	120 VAC	12 VDC
CRT220 (Europe)	220 VAC	12 VDC
CRT220UK (England)	220 VAC	12 VDC

(FOR CUSTOM SERIES)		
PART NO.	INPUT	OUTPUT
DPGT (USA)	120 VAC	9 VDC
DPGT220US (USA)	220 VAC	9 VDC
DPGT220UK (England)	220 VAC	9 VDC
DPGT220EU (Europe)	220 VAC	9 VDC



Extension Cable for Event Sensors (KEV, KEL, KES) and CR87PA Pressure Sensor

PART NO.	DESCRIPTION
CABLE6	6' cable
CABLE15	15' cable
CABLE25	25' cable



Nonsubmersible Type Air Sensor for CRTH2 & CRTT2

PART NO.	DESCRIPTION
THP5(CRTH2)	15' with plug-in jack
TTP5(CRTT2)	15' with plug-in jack



Replacement Pens

PART NO.	DESCRIPTION
CRPEN	Black pen
CRPENR	Red pen
CRPENB	Blue pen



For All Recorders

PART NO.	DESCRIPTION
12035	Battery Holder



Chart Recorders

CR4 UNIVERSAL RECORDER

The CR4 six (6) inch Universal Chart Recorder Offers the Ultimate in Flexibility. Choose One of 5 Sensors for Your Application, Connect it to the CR4 Universal Recorder, Make Desired Speed Selection and Start Recording. When Your Application Calls for a Different Sensor, just Change Probes for the Same Recorder.

- Automatic Probe Recognition
- Front Panel Touch Pad
- Real Time Data View
- Battery Backup
- Field Replaceable Probes
- Field Calibration of Probes
- Independent Channel Alarms

5 Interchangeable Probes

- KTH Temperature and Humidity Probe
- KTT Dual Temperature Probes
- KTP Temperature and Pressure Probes
- KPP Dual Pressure Probes
- KTE Temperature/Event Probes



CR4 Specifications

Chart Diameter	6 inches
Chart Rotation Mode	Continuous or Single turn
Memory	
Chart Rotation Speed	1.5, 3, 6, 12 & 24 hrs, 7 & 31 days
Chart Speed Accuracy	± 1%
Charts	60 assorted included
Display	LCD (2 line)
Temperature Alarm Range	-20°F to 120°F (-30°C to 50°C)
Relative Humidity Alarm Range	5 to 90% RH (Non-Condensing)
Pressure Alarm Range	0 to 500 PSI (0 to 35 Bar)
Alarm Delay	NO DELAY, 10 mins., 30 mins., 1 hr. or 2 hrs.
Remote Alarm Connection	NO, 48 VAC/DC, 0.1 A resistive load
Operating Temperature	32°F to 120°F (0°C to 49°C)
Primary Power	120 VAC, 50/60 Hz (220 VAC, 50/60 Hz optional)
Alternate Power	12 V vehicle operation (need optional adapter)
Battery backup	8 AA alkaline batteries
Battery Life	48 hrs. continuous

CR4 Accessories

PART NO.	DESCRIPTION
CRPENR	Red Recorder Pen
CRPENB	Blue Recorder Pen
CRT	120 VAC Power Adapter
CRT220	220 VAC Power Adapter
12070-001	Pen Arm Short
12071-001	Pen Arm Long

CR4 Probe Accessories

PART NO.	DESCRIPTION	KTH	KTT	KTP	KPP	KTE
CABLE10H	Extension cable for KTH (2 max)	*				
CABLE6	6 ft. cable for sensor probes	*	*	*	*	
CABLE15	15 ft. cable for sensor probes	*	*	*	*	
CABLE25	25 ft. cable for sensor probes	*	*	*	*	
TP15	Temperature sensor with 15 ft. wire	*	*			

TEST INSTRUMENTS

Chart Recorders

UNIVERSAL RECORDER PROBES

KTH - TEMPERATURE/HUMIDITY PROBE

Allows for Precision Measurement of Temperature, Humidity and Dew Point, (Non-Condensing). Probe Can Be Extended up to 25 Feet, Use p/n CABLE10H (2 max).



PROBE TYPE	PART NO.	TEMP RANGE/ ACCURACY	VOLTAGE RANGE	RH RANGE/ ACCURACY	PRESS RANGE/ ACCURACY	DEW POINT RANGE
Temp/RH	KTH	-40°F to 130°F +/- 2°F (-40° to 55°C +/- 1°C)	—	5 to 90% RH at 32° to 130°F +/- 5% (0° to 55°C) ambient	—	32° to 130°F (0° to 55°C)

KTH RANGE 1	KTH RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	0-100% HUMIDITY	E20120F12	E20120F24	E20120F7	E20120F31
-20°F to 50°F	0-100% HUMIDITY			E2050F7	E2050F31
40°F to 110°F	0-100% HUMIDITY	E40110F12	E40110F24	E40110F7	E40110F31
-30°C to 50°C	0-100% HUMIDITY	E3050C12	E3050C24	E3050C7	E3050C31
-30°C to 10°C	0-100% HUMIDITY	E3010C12	E3010C24	E3010C7	E3010C31
5°C to 45°C	0-100% HUMIDITY	E545C12	E545C24	E545C7	E545C31

KTT - DUAL TEMPERATURE PROBES

Complete with Two Precision Temperature Probes. Allows for Two Independent Temperature Measurements. Includes Adapter and Connecting Cable. Perfect for Refrigerators, Freezers, Indoor/Outdoor Recording, etc. Temperature Probe Can be Extended 20 Feet, Use p/n CABLE10T (2 max/probe).



PROBE TYPE	PART NO.	TEMP RANGE/ ACCURACY	VOLTAGE RANGE	RH RANGE/ ACCURACY	PRESS RANGE/ ACCURACY	DEW POINT RANGE
Temp/RH	KTT	-40°F to 130°F +/- 2°F (-40° to 55°C +/- 1°C)	—	—	—	—

KTT RANGE 1	KTT RANGE 2	12 HR	24 HR	7 DAY	31 DAY
-20°F to 120°F	-20°F to 50°F	CRTT2-2	CRTT2-1	CRTT2-3	CRTT2-21
-20°F to 50°F	40°F to 110°F	CRTT2-5	CRTT2-4	CRTT2-6	CRTT2-19
40°F to 110°F	-20°F to 120°F	CRTT2-8	CRTT2-7	CRTT2-9	
-30°C to 50°C	5°C to 45°C	CRTT2-11	CRTT2-10	CRTT2-12	
5°C to 45°C	-30°C to 10°C			CRTT2-15	CRTT2-24
-30°C to 10°C	-30°C to 50°C		CRTT2-16	CRTT2-18	CRTT2-23

KPP - DUAL PRESSURE PROBES

Complete with Two Pressure Probes. Measures and Records Two Pressures Simultaneously. Includes Connecting Cable and Adapter.



PROBE TYPE	PART NO.	PRESS RANGE/ ACCURACY
Temp/RH	KPP	0-500 psi (0-35 BAR) +/- 1% FS

KPP RANGE 1	KPP RANGE 2	12 HR	24 HR	7 DAY
0-50 PSI	0-150 PSI		CRPP2-7	
0-150 PSI	0-500 PSI	CRPP2-3	CRPP2-9	
0-10 BAR	0-35 BAR			CRPP2-18

Chart Recorders

KTP - TEMPERATURE/PRESSURE PROBES

Complete with Independent Precision Pressure and Temperature Probes. Measures and Records Temperature and Pressure Simultaneously. Ideal for Solving Intermittent Problems. Includes a Connecting Cable and Adapter. Perfect for Refrigerators, Freezers, Indoor/Outdoor Recording, etc. Temperature Probe Can Be Extended 20 Feet, Use p/n CABLE10T (2 max/probe).



PROBE TYPE	PART NO.	TEMP RANGE/ ACCURACY	PRESS RANGE/ ACCURACY
Temp/RH	KTP	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	0-500 psi (0-35 BAR) +/-1%FS

KTP RANGE 1	KTP RANGE 2	12 HR	24 HR	7 DAY
-20°F to 120°F	0-150 PSI		C RTP2-11	C RTP2-38
-20°F to 120°F	0-500 PSI	C RTP2-3	C RTP2-12	C RTP2-39
-20°F to 50°F	0-50 PSI		C RTP2-13	
-20°F to 50°F	0-500 PSI		C RTP2-15	
-30°C to 50°C	0-3.5 BAR	C RTP2-19		
-30°C to 50°C	0-10 BAR			C RTP2-47
-30°C to 50°C	0-35 BAR		C RTP2-30	
5°C to 45°C	0-3.5 BAR	C RTP2-25		
5°C to 45°C	0-10 BAR	C RTP2-26		C RTP2-53

KTE - TEMPERATURE/EVENT PROBES

Complete with Precision Temperature Probe, Event Probe, a Connecting Cable and Adapter. Allows the Service Engineer to Analyze Various Equipment Running Cycles.



PROBE TYPE	PART NO.	TEMP RANGE/ ACCURACY	VOLTAGE RANGE
Temp/RH	KTE	-40°F to 130°F ±2°F (-40° to 55°C ±1°C)	24 VAC-270VAC (24VDC-180VDC)

KTE RANGE 1	KTE RANGE 2	24 HR	7 DAY
-20°F to 120°F	ON/OFF		V20120F7D
-30°C to 50°C	ON/OFF	V3050C24	V3050C7

DR SERIES

The DR Disposable Temperature Recorder is an Inexpensive, One Time Use Temperature Recorder - Indispensable for HVAC/R Uses. It Gives an Accurate Strip Chart Recording of a Wide Ambient Temperature Range. It can be Easily Changed on the Job!



- Pull TAB to Start
- Detachable Three Part Water Resistant Job Information Form
- Unique Serial Number on Chart and Recorder for Positive Identification
- HACCP Documentation
- NIS Traceable Calibration
- ABS Plastic Enclosure

PART NO.	
DR10	10 Days
DR40	40 Days

Specifications

Temperature Range	-20°F to 100°F (-28°C to 38°C)
Temperature Accuracy	+/-2°F (+/-1°C) or Better
Day Spans	DR10 10 Day (°F & °C) DR40 40 Day (°F & °C)
Chart Resolution	10 Day 2.50" Per Day 1.5 volt AA Battery 1 Year from date of Purchase
Calibration	NIST Traceable
Tamper-Proof	Pre-sealed at the Factory
Security Seal	
Case Quantity	40 Instruments
Enclosure	ABS Plastic
Weight/Dimensions	10.5 oz (297.7 gm) 6.50" L x 3.50" W x 2.56"H 16.51 cm x 6.50 cm x 8.89 cm



Data Loggers

DATA VIEW DATA LOGGERS

- Text Display: Logging Summary, Sample Rate, Memory Used and Memory Left
- Graph Display: Shows Memory Trends Graphically, with Scrolling Feature
- Visual Over and Under Alarm Indicators for Temperature and Humidity
- USB Connection (Cable Included)



DVTH

Common Logger Specifications

Calibration	User Single Point Offset Calibration is Available Through Software. Calibration can be Password Protected
Operating Temperature	15°F to 150°F (-10°C to 65°C)
Storage Temperature	-5°F to 160°F (-20°C to 70°C)
Time Accuracy	+/- 100ppm @ 75°F
Temperature Accuracy	+/-1°F (0.5°C)
Temperature Resolution	0.01°F or 0.01°C
Dimensions	4" x 3.05" x 1.5" (10.2cm x 7.7cm x 3.8cm)
Weight	7 oz. (200 g)
Power Source	Three AA Batteries
Battery Life	2 Years Average Use



DVT4

Common Software Specifications

PC Interface	USB port. USB Cable is Included
Sampling Interval	User Selectable from 1 Second to 9 Hours, in 1 Second Increments
Data Security	Unique Factory Set Logger ID. Recording Session Counter. Password Protected Calibration
Operating System Compatibility	Windows® XP, Vista, 7 and 8 Compatible with 32 and 64 bit systems. Not Compatible with Windows® NT or 95
Minimum System Requirements	5MB of Free Disk Space, 800 x 600 Screen Resolution, 1 Free USB Port
Recording Start	On Button Press, Immediate After Setup, or at a User Specified Date and Time
Recording Mode	Stop on Memory Full, or Continuous Recording with Memory Rollover
Real Time Status	Visual Indication Through the LED. Software Real Time Status
User Calibration	Password Protected Calibration for Each Channel
User Information	Up to 30 Characters
Logger Channels	User Selectable. Disabling Channels Increases the Storage Capacity of the Other Channels
Units	US and Metric
Data Format	Exportable to Text or Excel Files



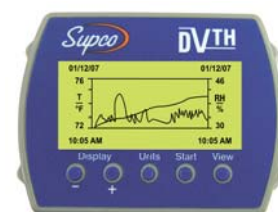
DVCV

DVTH TEMPERATURE HUMIDITY LOGGER WITH DISPLAY

Record and INSTANTLY Display Trends for Temperature, Humidity and Dew Point with the DVTH. Monitor Real Time Measurements for Instant Environmental Conditions. When You're Ready, Download Over 40,000 Data Points to Your PC for Further Analysis. Data Logging has Never Been this Visual!

Specifications

Sample Point Capacity	43,344 Points for Temperature Only. 21,672 Points for Temperature, Humidity and Dew Point
Relative Humidity Range	0% to 90% RH, Non-condensing
Relative Humidity Accuracy	+/-2% RH, from 10% to 90% RH
Relative Humidity Resolution	0.01%RH



Data Loggers

DVT4

FOUR CHANNEL TEMPERATURE DATA LOGGER WITH DISPLAY

INSTANTLY Record and View Up To 4 Temperatures Using 1 Internal and 3 External Sensors. The Large, Clear Display Shows All Channels Simultaneously, as well as the Temperature Difference Between Channels. Up to 87,000 Data Points are Available for Download to Your PC for Further Analysis.

Specifications

Sample Storage Capacity	21,760 Points for 4 Temperatures. 29,013 Points for 3 Temperatures. 43,520 Points for 2 Temperatures. 87,040 Points for Single Temperature
Internal Probe Temperature Range	15°F to 150°F (-10°C to 65°C)
External Probe Temperature Range	-40°F to 160°F (-40°C to 70°C)



Accessories

PART NO.	DESCRIPTION
14265	Replacement Sensor
21423	Replacement Probe Accessory



DVCV

DATA VIEW DATA LOGGER - CURRENT & VOLTAGE

- Displays Real Time Current, Voltage and Watts
- Displays Logging Summary, Sample Rate, Memory Used and Memory Left
- Sample Point Capacity: 43,344 Points for Voltage or Current Only 21,672 Points When Both Current and Voltage are Logged
- Three AA Batteries Included

Specifications

Operating Temperature Range	15°F to 150°F (-10°C to 65°C)
Current Range	1A to 300A AC
Current Accuracy	+/- 1A
Current Resolution	0.2A
Voltage Range	1V to 600V AC
Voltage Accuracy	+/- 0.4V
Voltage Resolution	0.2V





Data Loggers

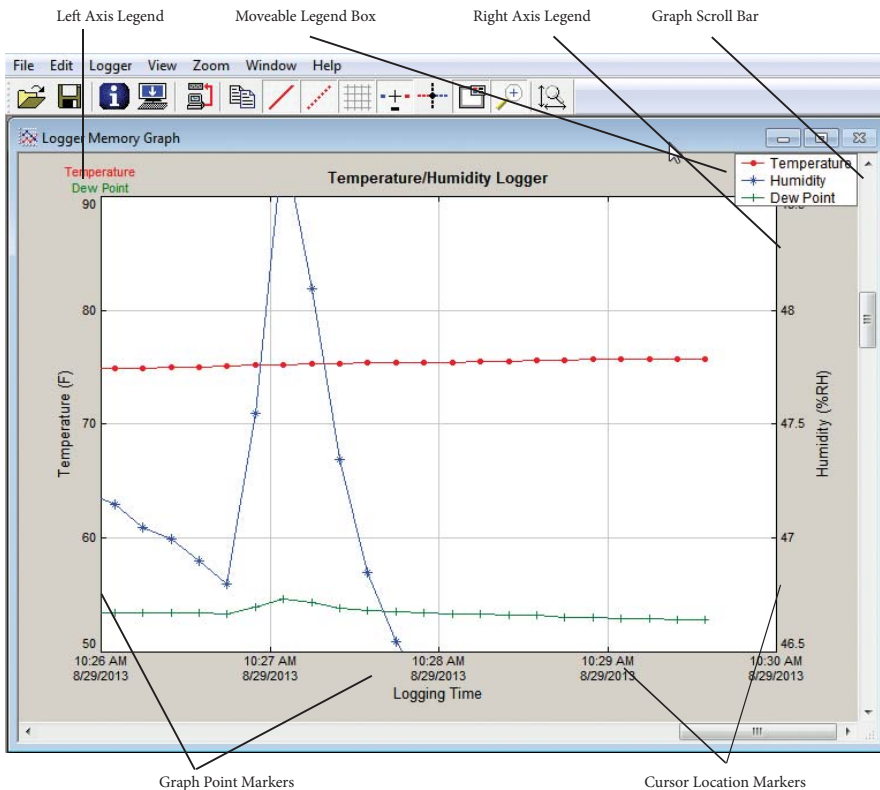
SL500 SERIES DATA LOGGERS WITH LCD REAL TIME DISPLAY

The SL500 Series of Temperature and Temperature/Humidity Data Loggers are Simple to Use, Versatile Test Instruments Which Can Be Used in a Multitude of Applications.

- LCD Real Time Display of Temperature (°F or °C), Relative Humidity (SL500TH Only), Time, Date, Alarm Status, Logging Status and Battery Life
- Windows® Software Included
- Sample Rate from 1 Second to 9 Hours
- User Selectable Stop on Memory Full or Memory Rollover for Continuous Logging
- Delayed Start or Push Button Logging Control
- Read Data on Logger Display
- Displays Alarm Icon for High/Low Alarm Status
- Non-volatile EEPROM Memory Retains Data Even if Battery Fails
- USB Interface for Fast Data Transfer (3' Cable Included)
- Compact, Light-weight, Simple to Use
- 1 Year Warranty
- Optional NIST (National Institute of Standards & Technology) Calibration Available

Working the Data Graph

Clicking Anywhere Within the Graph Window Activates the Graph Toolbar Buttons and the Graph Window Features



SL500T



SL500TH



SL500XT



SL500TC

MODEL NO.	DESCRIPTION
SL500T	Temperature Data Logger
SL500TH	Temperature & Humidity Data Logger
SL500XT	External Probe Temperature Data Logger
SL500TC	Thermocouple Temperature Data Logger

TEST INSTRUMENTS

Data Loggers

SL500 Series Software Features

- Selectable Language (English/French/Spanish)
- Software Compatibility: Windows® XP/Vista/7/8
- Minimum System Requirements: 800 x 600 Resolution, 1 Free USB Port
- Complete Data Summary to Read Statistics and Alarm Information in a Simplified Format
- Tabular view of Data including Detailed Dates, Times and Values of Recorded Data
- Graph Function Displays Data in Graphical Format
- Cursor Displays Exact Data of Any Point in the Graphical Display
- Magnify Data with Powerful Zoom and Auto Scale Functions
- Auto Scale Function Fits Data to Screen or Allows User to Manually Enter their Own Values
- Export Data in Excel or Text Format
- Print Graph or Text Data with Print Preview and Set Up Options
- Set Up and Launch Data Loggers with Immediate or Delayed Start, Preferred Sample Rate, Alarm Set Up and Custom ID up to 30 Characters
- Password Protected Calibration Function. A Calibration Window is Included in the Software to Simplify the Calibration Procedure
- Convenient Status Displays ID of Logger, Battery Life, Memory Used, Sample Rate, Duration, Alarm Condition and Logging Status
- Menu Bar Provides One Click Access to Most Software Functions

Data Listing Window

Logger Memory Information

Logger Information

Logger Type: SL500TH
Unit Description: Temperature/Humidity Logger
Logging Rate: 10 Secs

Data Listing | Data Summary | Alarm Thresholds

Samp	Temp (F)	Hum (%RH)	Dew Point (F)	Date
40	75.90	44.45	52.71	8/29/2013
41	75.90	44.45	52.71	8/29/2013
42	75.90	44.35	52.65	8/29/2013
43	75.90	44.15	52.53	8/29/2013
44	75.90	44.15	52.53	8/29/2013
45	75.95	44.25	52.63	8/29/2013
46	75.95	44.10	52.54	8/29/2013
47	75.95	44.05	52.51	8/29/2013
48	76.00	44.20	52.65	8/29/2013
49	76.00	44.10	52.59	8/29/2013
50	76.00	43.90	52.46	8/29/2013
51	76.00	43.80	52.40	8/29/2013
52	76.00	43.65	52.31	8/29/2013
53	76.00	43.55	52.25	8/29/2013
54	76.10	43.50	52.31	8/29/2013
55	76.10	43.40	52.24	8/29/2013
56	76.10	43.30	52.18	8/29/2013
57	76.10	43.15	52.09	8/29/2013
58	76.15	44.90	53.21	8/29/2013
59	76.15	44.65	53.06	8/29/2013
60	76.15	44.00	52.66	8/29/2013
61	76.25	43.50	52.44	8/29/2013
62	76.30	43.15	52.27	8/29/2013
63	76.30	42.95	52.14	8/29/2013

Adjustable Column Width

Data Loggers

SL500T/SL500XT/SL500TH Specifications

Sample Point Capacity	43,344 Temperature Points for the SL500T and SL500XT. 21,672 each Temperature and Humidity Points for the SL500TH
Display	Current Reading Time, Logging Status, Alarm Status, Recorded Sample History, Battery Level. SL500TH Alternates the Display Between Temperature and Humidity Every Two Seconds
Alarms	Visual Over and Under Alarm Indicator for Temperature and/or Humidity
Calibration	User Single Point Offset Calibration is Available Through Software. Calibration can be Password Protected
Operating Temperature	-5°F to 160°F (-20°C to 70°C)
External Probe Temperature Measurement Range (SL500XT)	-40°F to 176°F (-40°C to 80°C)
External Probe Length (SL500XT)	6' (1.8m)
Storage Temperature Range	-20°F to 175°F (-30°C to 80°C)
Time Accuracy	+/- 100ppm @ 75°F (24°C)
Temperature Accuracy	+/-0.9°F (0.5°C) for the Range 0°F to 120°F (-17°C to 50°C)
Temperature Resolution (PC Software)	0.05°F (0.03°C)
Relative Humidity Accuracy (SL500TH)	+/-2% RH for the Range of 10% RH to 90% RH
Relative Humidity Resolution (SL500TH)	0.05% RH
Dimensions	2.15" x 2.25" x 0.55" (5.5cm x 5.57cm x 1.4cm)
Power Source	3V CR2032 Lithium (Included)
Battery Life	3 Years Average Use



SL500TC Specifications

Sample Point Capacity	32,638 Temperature Points
Includes:	Type K Insulated Beaded Wire Thermocouple 40" (1m)
Other Supported Thermocouples:	J, E, B, T, S, R, B, C
Display	Current Reading and Time, Logging Status, Alarm Status, Recorded Sample History, Battery Level, Thermocouple Type. Displays Temperature up to 1999°F or 1999°C
Alarms	Visual Over and Under Temperature Alarms
Display Temperature Resolution	0.2°F (0.1°C) up to 199.9°F or °C. 1°F or 1°C Above 200°F or 200°C
Logged Temperature Resolution	0.2°F (0.1°C)
Thermocouple Impedance	50 Ohms Maximum for Specified Accuracy
Cold Junction Temperature Accuracy	+/-0.5°F (0.3°C)
Calibration	User Single Point Offset Calibration is Available Through Software. Calibration can be Password Protected
Operating Temperature	0°F to 131°F (-18°C to 55°C)
Storage Temperature	-20°F to 175°F (-30°C to 80°C)
Time Accuracy	+/-100ppm @ 75°F (24°C)
Dimensions	2.15" x 2.25" x 1.2" (5.5cm x 5.7cm x 3.0cm)
Power Source	3 AAA Batteries (Alkaline or Lithium Recommended), Included
Battery Life	2 Years Average Use

SL500TC Temperature Range

THERMOCOUPLE	ACCURACY SL500TC	TEMPERATURE RANGE
K	+/- 1.3°F (0.7°C)	-418 to 2372°F (-250 to 1300°C)
J	+/- 1.0°F (0.6°C)	-274 to 1832°F (-170 to 1000°C)
E	+/- 0.8°F (0.4°C)	-328 to 1508°F (-200 to 820°C)
N	+/- 1.5°F (0.8°C)	-328 to 2372°F (-200 to 1300°C)
T	+/- 1.3°F (0.7°C)	-328 to 752°F (-200 to 400°C)
S	+/- 5.0°F (2.8°C)	-58 to 3200°F (-50 to 1760°C)
R	+/- 5.0°F (2.8°C)	-58 to 3200°F (-50 to 1760°C)
B	+/- 6.0°F (3.3°C)	68 to 3308°F (20 to 1820°C)
C	+/- 3.0°F (1.7°C)	32 to 4208°F (0 to 2320°C)

The accuracy stated is for the SL500TC only. Inaccurate readings increase based on the thermocouple wire grade being used. The logger supported range is for stored temperature.



Data Loggers



SL SERIES MINIATURE DATA LOGGERS

Choose from Temperature, Humidity and Dew Point, or Temperature only Data Logging in a Miniature, Self-contained Device. The SL Series Data Loggers Provide Concise Measurements for Critical Environmental Conditions.

- Windows® XP, Vista and above Compatible Software (included). Not Compatible with Windows® 95/98 or NT
- PC, Delayed Start or Push Button Recording Control
- Temperature and Humidity Alarm with Visual Indication on Demand
- User Selectable Stop on Memory Full or Memory Rollover for Continuous Recording
- Real Time Monitoring
- View Graph and Text Simultaneously
- Can Calibrate Through Software
- Displays Temperature in °F or °C
- USB Interface Standard (Cable Included)

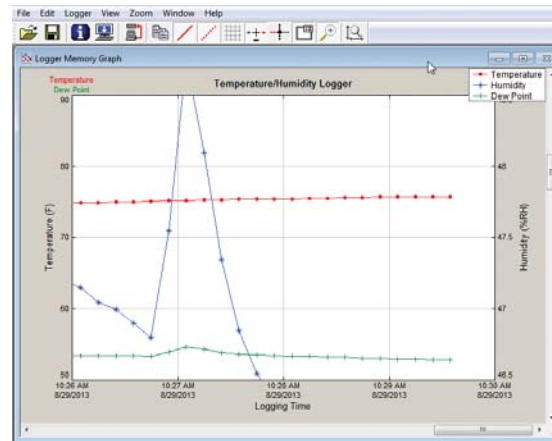


SL300T



SL Series Miniature Logger Common Specifications

Sample Rate	1 Second to 18 Hours
Alarms	High and Low Temperature and Humidity Alarms with Visual Indication on Demand
Temperature Accuracy	+/-1°F (+/-0.5°C)
Time Accuracy	+/-100ppm @ 75°F
Dimensions	3" x 1.6" x 0.6" (7.6cm x 4.0cm x 1.5cm)
Weight	1.0 oz. (28g)
Power Source	3 V (CR2032) Lithium Battery (Included)
Battery Life	6 Years Average Use



SL300TH

Measures Temperature, Humidity and Dew Point Simultaneously.

- Temperature and Humidity Alarm with Visual Indication on Demand

SL300TH Specifications

Sample Point	43,344 for Temperature only. 21,672
Capacity	for Temperature, Humidity and Dew Point
Temperature Range	-40°F to 160°F (-40°C to 70°C)
Temperature Resolution	0.01°F or 0.01°C
Relative Humidity Range	0% to 90% RH, Non-condensing
Relative Humidity Accuracy	+/-2% RH from 10% to 90% RH
Relative Humidity Resolution	0.01% RH
Calibration	Single Point Offset Calibration Available Through Software For both Temperature and Humidity. Can be Password Protected



SL300T

Measures Temperature Only.

- Temperature Alarm with Visual Indication on Demand

SL300T Specifications

Sample Point	43,344 Temperature Samples
Capacity	
Temperature Range	-40°F to 185°F (-40°C to 85°C)
Calibration	Single Point Offset Calibration Available Through Software for Temperature. Can be Password Protected





Data Loggers

LOGIT SERIES

Select the Right Logger for your Application...

- Stores Over 10,000 Measurement Points
- 1 Second to 18 Hour Sample Rate; 1 Second Increments
- Custom User Identification (30 Characters)
- Real Time Data Monitoring
- Over/Under Alarm Threshold Settings
- Visual Alarm Indication
- User Selectable Recording Start
- Tamper Proof
- 20 Month Battery Life (at 1 Minute Sample Rate)
- Data Rollover Option
- Unique Logger ID
- One PC Software Operates with all Loggers (LLSU not included)
- Graphic or Text Data
- Zoom Capability
- 1 Year Warranty

LT2 TEMPERATURE LOGGER (INTERNAL & EXTERNAL)

- One Internal and One External Temperature Measurement, Simultaneously

Specifications

Sample Point Capacity	21,500 points (single channel), 10,750 points and differential (dual channel)
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Each Probe
Temperature Range (Internal Sensor)	32° to 140°F (0°C to 60°C) with Alkaline Battery -40°F to 150°F (-40°C to 65°C) with Lithium Battery
Temperature Range (External Sensor)	-40°F to 150°F (-40°C to 65°C)
Accuracy Resolution	+/-1.0°F (0.5°C), 0.1°F (0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Operating Range Humidity	0% to 90% RH, Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)
Battery Life	18 Months using Alkaline, 36 Months using Lithium

Accessory

PART NO.	DESCRIPTION
14265-001	15' Remote Temperature Sensor



LTT DUAL TEMPERATURE LOGGER

- 2 Independent External Temperature Measurements & Temperature Differential
- 2 DLTP6 Sensors (Included)

Specifications

Sample Point Capacity	21,500 points (1 Probe), 10,750 points and differential (2 Probes)
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Each Probe
Temperature Range (External Sensor)	-50°F to 300°F (-46°C to 150°C) (2) DLTP6
Accuracy Resolution	+/-2°F (1°C) 0.1°F (0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Operating Range Humidity	0% to 90% RH, Non-condensing
Temperature Using Alkaline	32°F to 140°F (0°C to 60°C)
Temperature Using Lithium	-40°F to 150°F (-40°C to 65°C)
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)
Battery Life	20 Months using Alkaline, 40 Months using Lithium

Accessory

PART NO.	DESCRIPTION
DLTP6	4" Stainless Steel 6' Temperature Sensor



TEST INSTRUMENTS

Data Loggers



LTC THERMOCOUPLE TEMPERATURE LOGGER

- One Internal and One External (J, K, E, T, R, S Thermocouples) Temperature Measurement. Type K Included.

Specifications

Sample Point Capacity	10,750 Points for External and Internal Temperature
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Each Probe
Temperature Range (Internal Sensor)	32° to 140°F (0°C to 60°C) with Alkaline Battery -40°F to 150°F (-40°C to 65°C) with Lithium Battery
Temperature Range (External Sensor)	Depends on Thermocouple
Accuracy Resolution	Depends on Thermocouple
Time Accuracy	+/-100ppm @ 75°F
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)
Battery Life	20 Months using Alkaline, 40 Months using Lithium

Accessory

PART NO.	DESCRIPTION
TPFDA	K-Type Thermocouple with 4' FDA Approved Insulation



LTH TEMPERATURE & HUMIDITY LOGGER

- Integral Temperature, Humidity and Dew Point Measurements

Specifications

Sample Point Capacity	21,500 points for Temperature Only, 10,750 Points for Temperature, Humidity and Dew Point
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Each Probe
Temperature Range (Internal Sensor)	32° to 140°F (0°C to 60°C) with Alkaline Battery -40°F to 150°F (-40°C to 65°C) with Lithium Battery
Accuracy Resolution	+/-2°F (1°C), 0.1°F (0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Relative Humidity Range	0% to 90%, RH, Non-Condensing
Relative Humidity Accuracy	+/-2% Full Scale, From 5% to 90% RH For Temperatures Between 32°F to 140°F (0°C to 60°C)
Relative Humidity Resolution	0.1% RH
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)
Battery Life	20 Months using Alkaline, 40 Months using Lithium



LPT/LPT1000 PRESSURE & TEMPERATURE LOGGER

- External Pressure and Temperature Measurements

Specifications

Sample Point Capacity	10,750 Points for Pressure & Temperature. 21,500 Points for Pressure OR Temperature
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Pressure & Temperature
Temperature Range (External Sensor)	-40°F to 150°F (-40°C to 65°C)
Accuracy Resolution	+/-1°F (0.5°C) 0.1°F (0.05°C)
Time Accuracy	+/-100ppm @ 75°F
Pressure Range	0-500 psi (LPT), 0-1000 psi (LPT1000)
Pressure Sensor	-4°F to 185°F
Temperature Range	(-20°C to 85°C)
Compensated Temperature Range	32°F to 130°F (0°C to 55°C)
Pressure Accuracy	+/-3 psi
Pressure Resolution	0.15 psi
Pressure Connection	1/4" MPT Pressure Sensor Connection
Temperature Using Alkaline	32°F to 130°F (0°C to 54°C)
Temperature Using Lithium	-40°F to 170°F (-40°C to 77°C)
Operating Range Humidity	0 to 90% RH Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software. Pressure is Factory Calibrated
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)

Accessory

PART NO.	DESCRIPTION
14265-001	15' Remote Temperature Sensor



LCV CURRENT & VOLTAGE LOGGER

- External Current Probe and Voltage Measurements
- AC Only, Single Phase

Specifications

Sample Point Capacity	10,750 Points for Current & Voltage. 21,500 Points for Current OR Voltage
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarms for Pressure & Temperature
Time Accuracy	+/-100ppm @ 75°F
Input Current Range	0-300 Amps
Current Accuracy	+/-5%
Current Resolution	0.1 Amp AC
Voltage Range	0-500 Volts AC
Voltage Accuracy	+/- VAC
Voltage Resolution	0.1 VAC
Temperature Using Alkaline	32°F to 130°F (0°C to 54°C)
Temperature Using Lithium	-40°F to 150°F (-40°C to 65°C)
Operating Range Humidity	0 to 90% RH, Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software. Current and Voltage are Factory Calibrated
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)

Accessory

PART NO.	DESCRIPTION
12867	300A Current Probe



Data Loggers



L420 4-20 MA LOGGER

- Connection for 4-20 ma Loop Measurements

Specifications

Sample Point Capacity	21,500 Points
Sampling Rate	1 Second to 18 Hours
Alarms	Over and Under Alarm
Time Accuracy	+/-100ppm @ 75°F
Input Current Range	0-40 ma
Current Accuracy	+/-0.05 ma
Current Resolution	0.01 ma
Temperature Using Alkaline	32°F to 140°F (0°C to 60°C)
Temperature Using Lithium	-40°F to 150°F (-40°C to 65°C)
Operating Range Humidity	0 to 90% RH, Non-condensing
Storage Temperature	-40°F to 170°F (-40°C to 77°C)
Calibration	Single Point Offset Calibration Available Through Software. Current and Voltage are Factory Calibrated
Dimensions	3" x 2.5" x 1.1" (7.6cm x 6.4cm x 2.8cm)
Weight	2.5 oz (71g)
Power Source	9V Alkaline or Lithium Battery (not included)



L420 LLSU LOGIT PC SOFTWARE AND INTERFACE FOR USB CONNECTION

- PC Software on CD ROM
- LINT Interface
- Cable From Logger to Interface (12283-001)
- Cable From Interface to USB (19449)

Common Features

- Compatible with Windows® 95 through Windows® 8
- Graphic and Text Data
- 3 Memory Modes: Stop on Full, Record Continuously, or Memory Rollover
- Real Time Monitoring
- Password Protected Calibration
- Data Exportable to Text or Excel
- Minimum System Requirements: 8MB RAM, 2MB Disc Space, 800 x 600 Resolution, COM Port or USB Port



Data Loggers

LOGiT Optional Accessories

PART NO.	DESCRIPTION	LT2	LTH	LTC	LTT	LPT	LCV	L420
USBS	USB to Serial Interface	*	*		*	*	*	*
LLS	LOGiT PC Software & Interface	*	*	*	*	*	*	*
LLSU	LOGiT PC Software & Interface	*	*	*	*	*	*	*
SW25	25' Temperature Sensor Extension Wire	*				*		
SW50	50' Temperature Sensor Extension Wire	*				*		
SW75	75' Temperature Sensor Extension Wire	*				*		
SW100	100' Temperature Sensor Extension Wire	*				*		
CABLE10T	10' Sensor Extension Wire					*		
CABLE10H	10' Sensor Extension Wire (Max 3)				*			

SUPER VISION SERIES

5 IN 1 TEMPERATURE & HUMIDITY PRINTER LOGGER

The VLT Loggers are Feature Packed, Strip Recorder/Alarm Devices. Models with 1 to 4 Channels to Monitor Temperature, Humidity or Switches with Programmability for Each. The Large Digital Display, PC Interface without Additional Software, 4 Models of Printing and Remote Alarm Dialer Contacts Give these Devices Features Found on Products Costing Much More.

- Monitoring, Logging, Alarms and Printing in Real Time
- Up to 4 Input Channels for Temperature, Humidity and Switches
- Reading Intervals from 1 to 120 Minutes, 1 Min. Increments
- Over and Under Alarms Plus Delay Setting for Each Channel
- Operating and Setting by Means of 6 Function Keys
- Printed Help and Instruction Messages on Request During Unit Setup
- 1 Channel Printing in Auto Scale Graph Mode, Including Alarms
- 1 to 4 Channel Printing Full Reports in 3 Text Modes, Including Alarms
- Online Display/Minimum or Maximum on Request
- Exporting Real Time Data Through RS-232 PC Port. No Software Needed
- °F or °C, Date Format: dd/mm/yy or mm/dd/yy
- Battery Backup
- Low Battery, Chart End and Probe Error Indicators and Alarm Buzzer
- Remote Alarm Output Via Relay Contacts of 0.5A, 120V
- Remote Probes 33' (10 Meters) Cable Length, Extendable up to 100'
- Data and Settings Retained after Power Failure
- Base Unit Operating Humidity: 0 to 95% RH, Non-condensing



TESTING INSTRUMENTS

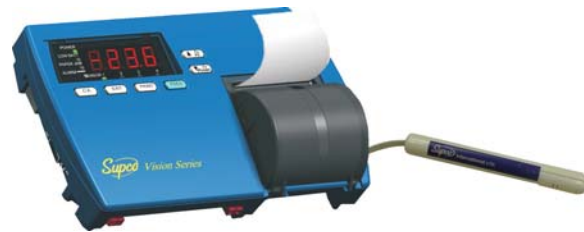
Data Loggers

PART NO.	INPUT	MEASURING OPTIONS	INCLUDED PROBES 33'	SAMPLE CAPACITY
VL412	12 VAC/DC	Any combination of	1 "VLT PROBE"	16,200 points
VL4115	120 VAC	temperature and	(for temperature)	of temperature
VL4230	220 VAC	switches up to 4 channels	1 "VLS CABLE"	and switches (4 probes)
VLTH12	12 VAC/DC	Temp., humidity and	1 "VLTH PROBE"	16,200 points
VLTH115	120 VAC	switch or 2 channels	(temp./humidity)	temperature,
VLTH230	220 VAC	of temp. and humidity	1 "VLS CABLE"	and humidity (4 channel)
			(on/off indication)	



Super Vision Series Specifications

Base Unit	32°F to 140°F (0°C to 60°C)
Operating Temperature	with Alkaline Battery
Range	0°F to 150°F (-18°C to 65°C)
Operating Humidity	with Lithium Battery
Storage	0 to 95% RH
Temperature	Non-condensing
Battery Backup	-40°F to 150°F
Clock Battery	9 Volt
Dimensions	(-40°C to 65°C)
Weight	3.6 Volt Lithium
	8.2" x 5.3" x 2.7"
	(208.6mm x 135mm x 69mm)
	2.6 lbs. (1.8 kg)



PROBE MODEL	WORKING RANGE	RESOLUTION	ACCURACY	REPEATABILITY	RESPONSE
VLT PROBE	-40°/130°C	0.1°C	±0, 3°C	±0.1°C	5-30
Temperature	-40°/266°F	0.2°F	±0.6°F	±0.2°F	Sec.
VLTH PROBE	-40°/85°C	0.1°C	±0, 5°C	±0.1°C	5-30
Temperature	-40°/185°F	0.1°F	±1, 0°F	±0.2°F	Sec.
and Humidity	10.0/89.9% RH	0.1% RH	±2% RH	±0.1% RH	6-10
	0.1-9.9/90-100%	0.1% RH	±4% RH	±0.5% RH	Sec.
VLS CABLE	Recognized dry contacts - for On/Off indication switch				1 Sec.



Accessories

VL PAPER	2" Thermal chart roll 131'
VL WPCASE	Water proof case + lock
VL SK	Remote alarm silencer
CABLE10H	Sensor extension 10'
CABLE33H	Sensor extension 33'
VPR	Power reducer 24 to 12V
ADTA	Auto phone dialer
VLCEL	Cellular adaptor to internet



Indoor Air Quality Instruments

IAQ SERIES

IAQ Series Measures Carbon Dioxide, Temperature and Humidity with Dew Point and Wet Bulb. Ideal for a Quality Diagnosis, they can be used in Identifying Sick Building Syndrome due to High Levels of CO2. Choose From a Hand Held Meter or Wall Mounted/Desktop Monitor. Both Come Equipped with a Triple LCD Display and Programmable Alarms.

- Non-Dispersive Infrared (NDIR) Sensor
- Visible/Audible (80db) CO2 Alarm
- Min./Max., Average Recall
- Alarm Output Relay
- Long Time Drift Compensation
- TWA (Time-Weighted Average) 8 Hours
- STEL (Short-Term-Exposure Limit) 15 Minutes

Specifications

CO2	IAQ55	IAQ50
Range	0-2000ppm 2001-9999 (out of scale)	
Resolution	1ppm	
Accuracy	±75ppm±5%rdg (0-2000 ppm) Not specified for out of scale	±50ppm±5%rdg (0-2000 ppm) Not specified for out of scale
Pressure Dependence	+1.6% reading per kPa deviation from normal pressure, 100kPa	
TEMPERATURE		
Range	14 to 140°F (-10.0 to 60.0°C)	
Resolution	0.1°F (0.1°C)	
Accuracy	+- 0.9°F (± 0.6°C)	
HUMIDITY		
Range	0.0 to 99% Non-Condensing	
Resolution	0.1%	
Accuracy	+-3% (10 to 90%)	+-5% (others)
GENERAL		
Warm Up	30 seconds	
Operating	32°F to 122°F (0 to 50°C) 0-95% RH Non-Condensing	
Storage	4°F to 140°F (-20 to 60°C) 0-99% RH Non-Condensing	
Power	4 AA batteries (Included)	12V adapter (Included)
Battery Life	N/A	24 hours (Alkaline)

IAQ50 WALL MOUNTED INDOOR AIR QUALITY MONITOR

- Desktop or Wall Mounting
- Alarm Output Relay
- 12V Power Adapter (Included)



IAQ55 HANDHELD INDOOR AIR QUALITY MONITOR

- Portable
- Backlight LCD Display Function
- Auto Shut-Off



CO1000 CARBON MONOXIDE METER

- Backlit LCD
- Automatic Calibration
- Max Hold and Data Hold
- Auto Power Off
- Audible Alarm
- From 35ppm to 200ppm, the Beeper Sounds Periodically
- Above 200ppm, the Beeper Sounds Continuously

Specifications

Measurement Range	0 to 1000 PPM
Measurement Resolution	1 PPM
Accuracy	5% or ±10 PPM (0-100 PPM) 10% ± 10 PPM (>100PPM)
Warm Up Period	< 2 Seconds
Operating Temperature	32°F to 122°F (0°C to 50°C)
Storage Temperature	-22°F to 140°F (-30° to 60°C)
Operating Humidity	0-99% Relative Humidity (non-condensing)
Battery	9V (included)
Auto Power Off	After 15 minutes of inactivity
Sensor Type	Stabilized electrochemical Gas-specific (CO)
Typical Sensor Life	3 years



HVAC/R Instruments

MFD10 DIGITAL CAPACITOR TESTER

- New, Rugged Case
- Rubber Grips for Easy Handling
- Range 0.001 μF to 9999 μF
- Accuracy +/- 5%
- Auto-Ranging
- One Button Operation
- Magnetic Leads
- Includes Alligator Clips
- 12" Test Leads
- Sliding Door to Easily Store Test Leads & Clips
- Includes Soft Carrying Case
- Dimensions: 2 5/8" x 1 3/8" x 4 1/4"
- Operates on 3 AAA Batteries (not included)



Accessories

PART NO.	DESCRIPTION
MDFUSE	Replacement Fuse
22792	Soft Carrying Case

M500 INSULATION TESTER/ ELECTRONIC MEGOHMMETER

- Measure Insulation Values up to 1000 Megohms @ 500VAC
- Range: 20 to 1000 Megohms
- Zone Scale to Indicate Insulation Condition
- Hand Held
- Test Leads Store in Case
- Operates on 2 C Batteries (Not Included)
- Impact Resistant
- Soft Carrying Case Included

Accessory

PART NO.	DESCRIPTION
MCASE	Soft Case

MADE IN THE
USA



M501 INSULATION TESTER/ ELECTRONIC MEGOHMMETER

- Enjoy the Same Great Features of the M500 in a Sturdy Service Case

MADE IN THE
USA



M1000D DIGITAL MEGOHMMETER

The Versatile M1000D Provides the User Selectable Test Voltage Ranges of 250V/500V/1000V to Test Insulation Resistance and Can Also be Used to Measure AC Voltage up to 750AC.

- User Selectable Resistance and Voltage Ranges
- Large Backlit LCD (3.25" x 2.00")
- Data Hold Button
- Auto Power Off After 15 Minutes
- Low Battery Indicator
- 1 Year Warranty



HVAC/R Instruments

DDM55 DUAL DIGITAL MANOMETER

- Dual Input
- Range: -55.0 to +55.0 Inches Water Column
- Resolution to 0.01"
- Provides Differential Measurements
- 11 Units of Measure
- Data Hold
- LCD Display w/ Backlight
- Auto Power Off
- 9V Battery Included
- Soft Carrying Case Included

General Specifications

Display	Dual LCD
Accuracy	+/-0.3% FSO
Repeatability	+/-0.2% (Max. +/-0.5% FSO)
Linearity/Hysteresis	+/-0.29% FSO
Maximum Pressure	10 psi
Response Time	0.5 Seconds Typical
Low Battery Indicator	Yes
Over Range Indicator	Err. 1
Under Range Indicator	Err.2
Operating Conditions	32°F to 122°F (0 to 50°C)
Storage Conditions	14°F to 140°F (-1 to 60°C)
Power Supply	1 x 9V Battery (Included) or External 9V DC



Specifications

FUNCTION	RANGE	RESOLUTION	FUNCTION	RANGE	RESOLUTION
InH2O	+/-55.40	0.01	ozin2	32.00	0.01
psi	+/-2.000	0.001	FtH2O	4.612	0.001
Mbar	+/-137.8		cmH2O	140.6	0.1
kPa	+/-137.9		Kgcm2	0.140	0.001
inHg	+/-0.407	0.001	Bar	0.137	0.001
mmHg	+/-103.4				

Accessories (Included)

Soft Pouch
Flexible Tubing
1/8" MPT x 1/8" Barb Access Fitting

DAVM+ DIGITAL AIR FLOW/VOLUME METER

- Measures Feet Per Minute (FPM) and Cubic Feet Per Minute (CFM)
- Easy CFM Set-Up Flow Chart with Grill Free Area Chart (Included)
- Measures Temperature and Humidity
- °F/°C Selectable
- Standard K-Type Thermocouple Connector
- Measures Light Levels (LUX)
- Multi-Channel Display
- Data Hold
- One-Hand Operation
- Carrying Case (SCASE) Included



Measurement Specifications

MEASUREMENT	RANGE	RESOLUTION	ACCURACY
Air Velocity	ft/min	80 to 5,910 ft/min	1 ft/min
	m/s	0.4 to 30.0 m/s	0.1 m/s
	km/h	1.4 to 108.0 km/h	0.1 km/h
	MPH	0.9 to 67.0 mile/h	0.1 MPH
	knots	0.8 to 58.3 knots	0.1 knots
Temperature (thermistors)	° F	32° to 122 °F	0.1 °F
	° C	0° to 50 °C	0.1 °C
Air Flow	CFM	1,908,400 CFM	0.001 to 100
	(cube feet/min)	CFM	
	CMM		54,000 CMM
	(cube meter/min)	CMM	0.001 to 1
Humidity	% RH	10 to 95 % RH	0.1 % RH
		10 to 95% RH	
		± 4% RH	< 70% RH : ≥ 70% RH : : ± (4%rdg+1.2%RH)
Light	Lux	0 to 2,200 Lux	1 Lux
		1,800 to 20,000 Lux	10 Lux
		0 to 20,000 Lux	
		0 to 2,000 Fc	± 5% rdg ± 8 dgt
Temperature (Type K)	-148 to 2,372 °F		±(1% rdg + 2°F)
	-100 to 1,300 °C		±(1% rdg + 1°C)
*auto range	Ft-cd	0 to 204.0 Fc	1 Ft-cd
		170 to 2,000 Fc	1 Ft-cd

Specifications

Measurement	Anemometer, Humidity, Temperature, Light, Air flow (CFM/CMM).
Operating Humidity	80% RH Max
Operating Temperature	32° to 122°F (0 to 50°C)
Over Input Display	Indication of " - - - "
Power Supply	9V battery (not included)
Power Consumption	Approx. 6.2 mA DC
Weight	5.6 oz (160g)
Dimension	6.14" x 2.36" x 1.29" 156 x 60 x 33 mm

Optional Accessory

TPFDA FDA Approved Thermocouple Probe

MEASUREMENT	AREA SET
CFM	0.01 to 322.92 Feet Square
CMM	0.001 to 30.000 Meter Square

HVAC/R Instruments

TPC8000 TEMPERATURE PRESSURE CLAMP

The Intelligent Pressure Clamp is 3 Tools in One! Great for SUPERHEAT or SUBCOOL Temperatures, it Quickly and Accurately Measures Temperature (pipe), Temperature and Relative Pressure and has a PT Chart.

- Set Up and Change Refrigerant in Seconds
- PT Chart has 64 Refrigerants
- Durable Moisture Resistant Keypad
- LED BackLight
- Automatic Shut Off
- Spring-Loaded Clamp Design. Easily Attaches to Tubing from 3/8" to 1 1/8"
- Battery Operated (200 hr. run time, batteries included)

Specifications

Temperature Range	-20°F to 212°F (-28°C to 100°C)
Accuracy	+/- 2% (typ.)
Resolution	0.1°F/°C
Operating Temperature	32° F to 120° (0°C to 48.8°C)
Auto Shut Off	15 Minutes
Dimensions	4 1/2" x 2 3/8" x 1 1/2" (114.3 mm x 60.325 mm x 38.1 mm)
Weight	5 oz. (141.7 g.)



Refrigerants

R11, R12, R13, R14, R21, R22, R23, R32, R41, R113, R114, R115, R116, R123, R124, R125, R134, R134A, R141B, R142B, R143, R143A, R152A, R161, R176, R218, R290, R401A, R401B, R401C, R402A, R402B, R403A, R403B, R404A, R405A, R406A, R407A, R407B, R407C, R407D, R408A, R409A, R409B, R410A, R410B, R411A, R411B, R412A, R413A, R414A, R414B, R415A, R415B, R416A, R417A, R418A, R419A, R420A, R421A, R421B, R422A, R422B, R422C, R422D, R423A, R424A, R425A, R426A, R427A, R428A, R429A, R430A, R431A, R432A, R433A, R434A, R435A, R436A, R436B, R437A, R438A, R500, R501, R502, R503, R504, R507, R507A, R508A, R508B, R509A, R510A, R600, R600A, R601, R601A, R717, R744
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EM5 ENVIRONMENTAL METER

Combining the Measurements of 5 Critical Environmental Parameters, the EM5 Provides the User with Complete Information for Real Time Environmental Conditions; SOUND, AIR VELOCITY (AND VOLUME), TEMPERATURE, HUMIDITY AND LIGHT.

- Measures Air Velocity (fpm) and Air Volume (cfm)
- Measures Sound in dB
- Measures Temperature and Humidity
- Measures Light (Lux)
- Standard and Metric Units
- Backlit LCD Display
- Min/Max/Avg/DIF Modes
- Data Hold
- Auto-Ranging
- Auto Power Off
- Low Battery Indicator
- One-Hand Operation
- Air Measurement Set Up and Register
- CFM Pocket Chart Included
- Carrying Case Included
- Instrument Tripod Included
- One Year Warranty

Measurement Specifications

RANGE	RESOLUTION	ACCURACY
Temperature		
14°F to 140°F (-10°C to 60°C)	0.1°F (0.1°C)	+/- 2.7°F (+/- 1.5°C)
Relative Humidity		
20% RH to 80% RH	0.1% RH	+/- 3% RH @ 75 °F
< 20% RH and > 80% RH	0.1% RH	+/- 5% RH @ 75 °F
Sound Level		
30 dB to 130 dB	0.1 dB	+/- 1.5 dB
Light Level		
0 to 2000 Lux	1 Lux	+/- 5% of Rdg plus 10
2001 LUX to 20,000 Lux	10 Lux	+/- 5% of Rdg plus 10
20,001 LUX to 50,000 Lux	100 Lux	+/- 5% of Rdg plus 10
Air Flow		
1.6 ft/s to 65.7 ft/s	0.1 ft/s	+/- 3% of Rdg plus 10
0.5 m/s to 20 m/s	0.1 m/s	+/- 3% of Rdg plus 10
0.9 knots to 38.9 knots	0.1 knots	+/- 3% of Rdg plus 10
1.8 km/h to 72 km/h	0.1 km/h	+/- 3% of Rdg plus 10
Air Volume		
0 to 999,900 CFM	0.1 to 100 CFM	+/- 3% of Rdg plus 10
0 to 999,900 CMM	0.1 to 1000 CMM	+/- 3% of Rdg plus 10



Specifications

Display	4 1/2 Digit Backlit LCD
Response Time	2/Second (app.)
Operating Temperature	14°F to 140°F (-10°C to 60°C)
Storage Temperature	14°F to 122°F (-10°C to 50°C)
Power Requirements	9V Battery (Included)
Weight	15.5 oz. (430 g.)
Dimensions	11" x 3.5" x 2" (280 mm x 89 mm x 50mm)

TEST INSTRUMENTS

EM SERIES ENVIRONMENTAL METER

Measure Critical HVAC/R Parameters to Maximize Productivity and Performance. Choose the Environmental Meter(s) for the Best Solution.

EM20 THERMO-ANEMOMETER

Diagnose and Solve Air Flow Problems

- Measures fpm, m/s, mph, km/h, kts, Beaufort Scale
- Measures °F/°C
- Velocity Range: 80 fpm to 4000 fpm
- Temperature Range: 14°F to 122°F
- Min/Max
- Data Hold
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included

Specifications

Velocity Range:	80 fpm to 4000 fpm, 0.4 m/s to 20 m/s
Temperature Range:	14°F to 122°F (-10°C to 50°C)
Velocity Resolution:	1 fpm (0.1 m/s)
Temperature Resolution:	0.1°F (0.1°C)
Battery:	1.5V AAA x 3 (included)
Dimensions:	6.2" X 2.4" X 1.2" (157mm X 60mm X 30mm)
Weight:	6.3 oz. (180g)



EM30 TACHOMETER

Analyze and Solve Motor Rotation Problems

- Measures rpm & rps
- Range: 100 rpm to 30,000 rpm
- Min/Max
- Data Hold
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included

Specifications

Range:	100 rpm to 30000 rpm / 1.7 rps to 500 rps
Resolution:	0.1 rpm for 100 rpm to 999.9 rpm 1 rpm for 1000 rpm to 30000 rpm 0.1 rps for 1.7rps to 100rps 1 rps for 100 rps to 500 rps
Accuracy:	±0.1% reading for 100.0 rpm to 9,999 rpm ±0.02% reading for 10,000 rpm to 30,000 rpm
Auto power off:	2 min. (app.)
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.7" X 2.4" X 1.2" (121mm X 60mm X 30mm)
Weight:	6.3 oz (180g)



EM80 SOUND LEVEL METER

Analyze and Solve Excessive Sound Level Problems

- Range: 30 dB to 120 dB
- Auto or Manual Range
- Analog Bar Indicator
- Field Calibratable
- Auto Power Off
- Backlit LCD
- Hard Carrying Case Included

Specifications

Frequency range:	31.5Hz to 8KHz
Measuring range:	30dB to 120dB
Frequency weighting:	A
Resolution:	0.1 dB
Accuracy:	1.5 dB (under 94 dB)
Four ranges:	60dB / 80dB / 100dB / 120 dB
Time response:	Analog bar: 0.25 sec / Digital: 0.75 sec
Operating temperature:	-32°F to 104°F (0°C to 40°C)
Operating humidity:	10% to 80% RH
Battery:	1.5V AAA x 3 (included)
Dimensions:	6.1" X 2.4" X 1.2" (156mm X 60mm X 32 mm)
Weight:	5.2 oz (180g)



Refrigerant Scales

PCS220 PROGRAMMABLE REFRIGERANT CHARGING SCALE



Using the Latest Technology, the PCS220 Makes Charging a System Fast and Reliable. Just Set the Desired Amount of Refrigerant to Charge the System and the Built-In Solenoid Delivers the Precise Weight, then Sounds the Alarm Signaling the Completed Job.

- Compatible with ALL Refrigerants
- Range: 0 to 220 lbs (0 to 100 kg)
- Solenoid Activated for Real-Time Charging
- User Programmable
- Audible Alarm
- Built-In Memory for All Settings
- Large LCD Display w/ Backlight
- Auto Power Off (15 Mins)
- Field Calibration Available
- Hard Carrying Case Included
- 1 Year Warranty



Specifications

Capacity	220 lbs (100 kg)
Accuracy	0.5% of Reading
Best Resolution	0.005 lbs/ 0.1 oz/ 2 g
Auto Shut Off	15 min
Operating Temperature	50°F to 122°F (10°C to 50°C)
Weight	6.03 lbs (2.74 kg)
Dimensions	9.1 in x 9.1in x 2.4 in (23 cm x 23 cm x 6 cm)
Power Source	5 X AA (included)
Battery Life	60 hrs

Applications

- HVAC and Refrigeration Service
- Precise Measurement of Refrigerant Containers
- Automated Charging of Refrigerant Systems

RCS220 REFRIGERANT CHARGING SCALE



For Fast and Accurate Measurements.

- Compatible with ALL Refrigerants
- Range: 0 to 220 lbs (0 to 100 kg)
- Built-In Memory
- Measures Weight in lbs, ozs and kgs
- Large LCD Display w/ Backlight
- Auto Power Off (15 Mins)
- Field Calibration Available
- Hard Carrying Case Included
- 1 Year Warranty

Specifications

Capacity	220 lbs (100 kg)
Accuracy	0.5% of Reading
Best Resolution	0.01 lbs
Auto Shut Off	15 min
Operating Temperature	50°F to 122°F (10°C to 50°C)
Weight	6.03 lbs (2.74 kg)
Dimensions	9.1 in x 9.1in x 2.4 in (23 cm x 23 cm x 6 cm)
Power Source	5 X AA (included)
Battery Life	60 hrs



DHS55 DIGITAL HANDHELD SCALE

This Compact Handheld Scale Provides Quick Measurements for your Refrigeration Applications.

- 55 lbs Max Scale
- 2% Accuracy
- One Button Operation
- Lbs/Kgs Switchable
- 9V Battery

Specialty Instrument Selection Guide

- Measurement/Function-Weight
- Range: 0 to 55 lbs.



Refrigerant Scales

HLD200

REFRIGERANT LEAK DETECTOR

By Pinpointing a System Leak Quickly, the HLD200 Takes the Time and Frustration Out of Leak Detection.

- Detects All Halogen Refrigerants and Blends
- Auto Zero When Powered On
- High Efficiency Pump for Fast Response
- Audible Tick
- Seven Segment LED Indicators
- 12" Gooseneck
- Replaceable Sensor Tip
- Protective Sheath Included
- Hard Carrying Case Included
- Extra Sensor Tip (p/n HLDTIP) Included
- 1 Year Warranty

Sensor Type	Negative Corona
Sensitivity	0.1 oz/ yr
Sensitivity Levels	5
Audio Indicator	Variable Tick
Visual Indicator	Flashing LED
Warm Up Time	6 sec
Response Time	< 1 sec
Duty Cycle	Continuous
Probe Length	12"
Operating Temp	32° to 125°F
Power Source	2 X AA (included)
Battery Life	30 hrs



Multi-Meter & Current Probe

CVPRO46

CHARGEPRO PORTABLE SYSTEM ANALYZER

Integrated Device Composed of a Base Unit and a Handheld Unit.

- Recover Refrigerant
- Make Vacuum
- Check for Possible Leaks
- Charge with Accuracy
- Hardware and Accessories Included
- Hard Carrying Case Included



RPT61

PRESSURE TEMPERATURE CHART MASTER

For Instant Information, the PT Chart Master Eliminates the Need for Traditional Pressure/Temperature Charts. Accurate and Easy to Use, the RPT61 Provides Pressure and Temperature Correlation for 66 Different Refrigerants.

- Choose Pressure in PSI, BAR or Mpa
- Choose Temperature in °F or °C
- 66 Refrigerant Tables
- Large LCD
- Auto Off (After 5 Minutes)
- Pocket Size
- Battery Included Power: 3V (CR2032)
- Soft Carrying Case Included
- 1 Year Warranty



Specifications

PRESSURE UNITS	RANGE
PSI	5.1 to 462.5
BAR	0.35 to 31.88
MPa	0.035 to 3.188
TEMPERATURE UNITS	
Fahrenheit	-40°F to 155°F
Celsius	-40°C to 68°C

Multi-Meter & Current Probe

DM10T ECONOMY DIGITAL MULTIMETER WITH TEMPERATURE

- 1000 Volts DC
- Continuity
- 2MΩ Resistance
- 10 Amps DC
- 750 Volts AC
- Temperature



Specifications

Volts AC	750
Volts AC Best Resolution	1 V
Volts DC	1000
Volts DC Best Resolution	0.1 mV
Amps AC	10
Amps AC Best Resolution	0.1mA
Base Accuracy (DC Volts)	± 0.5%
Resistance max. (Ohms)	2 M
Continuity	Yes
Temperature	-4 °F to 2,498° F (-20° C to 1370 °C)

Temperature Accuracy	±3°F (1.5°C)
Display (Counts)	2,000
Operating	32° F to 74° F
Temperature	(0°C to 23°C)
Relative Humidity	0% to 75% RH
Fuse Protection	mA: 0.2A/ 250V
Power	9 V Battery (included)
Size	5.5" L x 3"W x 1.5"D (140mm x 76mm x 36mm)
Weight	8 oz (227 g)
Warranty	1 Year

Optional Accessories

- TLA Test Leads**
- 1000V AC or DC Max
 - 10 Amps Max
 - Includes Screw-On Alligator Clips

- TPFDA**
- FDA Approved
Temperature Probe
- SCCP**
- Deluxe Soft Case

CPH100 HVAC CURRENT PROBE

- 400 Amps AC
- DC μAmps
- Continuity
- Temperature
- Frequency
- Includes Test Leads
- AC/DC Volts
- Resistance
- Capacitance
- Auto Shut Off
- 1 Year Warranty



Specifications

Volts AC	600
Volts AC Best Resolution	0.1mV
Volts DC	600
Volts DC Best Resolution	0.1mV
Amps AC	400A
Amps AC Best Resolution	0.1A
Frequency (Hz)	150.0KHz
Frequency Best Resolution	0.001Hz
Base Accuracy (DC Volts)	± (1.5% +3 dgts)
(AC Amps)	± (2.0% + 3 dgts)
Resistance max. (Ohms)	40M
Continuity	Yes
Capacitance	100.0μF
Best Resolution	0.01nF

Temperature	-50°F to 2372°F -5°C to 1300°C
Temperature Accuracy	±3%
Display (Counts)	4,000
Data Hold	Yes
Sleep Mode	Auto Shut Off
Operating	14°F to 122°F
Temperature	(-10°C to 50°C)
Storage	-22°F to 140°F
Temperature	(-30°C to 60°C)
Relative Humidity	0% to 90% RH
Power	2 1.5V AAA Batteries (included)
Size	7.9" L X 2.0W" X 1.4"D (200mm X 50mm X 35mm)
Weight	7.1oz (200g)
Warranty	1 Year

Optional Accessories

- TLA Test Leads**
- 1000V AC or DC Max
 - 10 Amps Max
 - Includes Screw-On Alligator Clips

- TPFDA**
- FDA Approved
Temperature Probe
- SCCP**
- Deluxe Soft Case

VDL1000 VOLTAGE DETECTOR W/ LIGHT

Detects Voltage in Cables, Cords, Circuit Breakers, Lighting Fixtures, Switches, Outlets and Wires.

- Detects 90 to 1000 VAC
- Beeps and Flashes RED when Voltage is Detected
- Integrated LED Light
- 2 AAA Batteries Included



Temperature & Humidity Testers

DSP1000 DIGITAL PSYCHROMETER

The DSP1000 Provides Fast, Accurate Measurements for Analysis of Critical Environmental Conditions.

- Fast Response Time
- High Accuracy
- Temperature
- Humidity
- Dewpoint Temperature
- Wet Bulb Temperature
- Max Hold
- Data Hold Function
- Micro Processor-based Design
- Dual Display Temperature & Humidity
- Auto Power Off (Disable Sleep Mode)
- Backlight
- 1 Year Warranty



Specifications

Humidity Range	0-100% RH (Non-Condensing)
Temperature	-22°F to 212°F (-30°C to 100°C)
Dewpoint Temperature	-22°F to 212°F (-30°C to 100°C)
Wet Bulb Temperature	32°F to 176°F (0°C to 80°C)
Humidity	±2% RH (20% RH to 80% RH)
Accuracy	±2.5% RH (all other ranges)
Temperature	±0.9°F/±0.5°C (at 77°F/25°C)
Accuracy	±1.5°F/±0.8°C (all other ranges)
Resolution	0.01% RH, 0.01°F/0.01°C
Response Time	10 seconds

Battery Type	9V Battery NEDA 1604, IEC 6F22 (included)
Operation Temperature	32°F to 104°F (0°C to 40°C) (<80%RH)
Storage Temperature	14°F to 140°F (-10°C to 60°C) (<70%RH)
Size (H X W X D)	8.86" X 1.77" X 1.34" (225mm X 45mm X 34mm)
Weight	7.05oz (200g)

THP2 THERMO-HYGROMETER PEN

- Measures Temperature & Humidity, Simultaneously
- Dual Display
- Temperature in °F or °C
- Pocket Clip
- Battery Included



Specifications

	TEMPERATURE	HUMIDITY (% RH)
Range	-4°F to 122°F (-20°C to 50°C)	10% to 90%
Resolution	0.1°F	1%
Accuracy	+/-2°F (+/-4°C)	+/-5% (for 40% to 80%)

PT100 DIGITAL POCKET SURFACE THERMOMETER

- Ultra Sensitive Air and Surface Reading Probe
- Provides Fast Response - Within Seconds
- Temperature "HOLD" Switch - Keeps Readings Fixed
- Power: 9V Alkaline
- Size: 1.5" x 6.75" x 0.8"
- Weight: 7.2 oz.
- 1 Year Warranty



Specifications

TEMPERATURE	
Range	PT100/PT100C -40°F to 199.9°F (-40°C to 93.28°C)
	PT100H/PT100HC -40°F to 250°F (-40°C to 120°C)
Resolution	0.1°F (-40°F to 199.9°F) 1.0°F (-40°F to 250°F)
Accuracy	0.2 Surface, 1.0 Air

PART NO.	DESCRIPTION
PT100	Fahrenheit Model
PT100C	Celsius Model

PART NO.	DESCRIPTION
PT100H	High Temp. Fahrenheit
PT100HC	High Temp. Celsius



Temperature & Humidity Testers

EM10 TEMPERATURE & HUMIDITY METER

Diagnose and Solve HVAC System Problems

- Measures Temperature, Humidity & Dew Point
- Temperature Range: 14°F to 122°F
- Humidity Range: 0% to 99.9% RH
- Min/Max/Avg
- Data Hold
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included

Specifications

Temperature range :	14°F to 122°F (-10°C to 50°C)
Humidity range:	0% to 99.9% RH
Temperature Resolution:	0.1°F (0.1°C)
Humidity Resolution:	0.1% RH
Temperature Accuracy:	± 1.8°F (± 1.0°C)
Humidity Accuracy:	3% RH (5 to 95% RH)
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.8" X 2.4" X 1.2" (121mm X 60mm X 30mm)
Weight:	6.2 oz (180g)



EM60 DUAL DIFFERENTIAL THERMOMETER

Make Fast Inlet/Outlet Temperature Comparisons

- Dual Thermocouple (J, K) Inputs
- Temperature Range (K): -328°F to 2,372°F
- Measures T1, T2 & T1-T2
- High & Low Alarms
- Data Storage
- Min/Max/Avg for T1 & T2
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included
- Includes two (2) K-Type Thermocouples

Specifications

Range:	K-Thermocouple: -328°F to 2372°F (-200°C to 1300°C) J- Thermocouple: -328°F to 2192°F (-200°C to 1200°C)
Resolution:	0.1°F ; (0.1°C)
Best Accuracy:	
K-Thermocouple:	± 0.2% of Reading ± 2°F (± 0.1% of Reading ± 1.4°F)
J- Thermocouple:	± 0.2% of Reading ± 2°F (± 0.1% of Reading ± 1.4°F)
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.8" X 2.4" X 1.2" (121mm X 60mm X 30 mm)
Weight:	6.2 oz (180g)



EM90 DUAL THERMOMETER (INFRARED & THERMOCOUPLE)

Choose the Most Convenient Method for the Application

- IR Range: -58°F to 518°F
- Thermocouple Range (K): -328°F to 2,372°F
- Min/Max/Avg
- Data Hold
- Backlit LCD
- Auto Power Off
- Hard Carrying Case Included
- Includes One (1) K-Type Thermocouple

Specifications

Temperature Range:	
- Infrared:	-58°F to 572°F (-50°C to 300°C)
- K-Thermocouple:	-328°F to 2372°F (-200°C to 1300°C)
Resolution:	0.1°F (0.1°C)
Best Accuracy:	
Infrared:	± 1.5% of reading ± 4°F F (± 1.5% of Reading ± 2°C)
K-Thermocouple:	± 0.1% of Reading ± 1.4°F (± 0.2% of Reading ± 1°C)
Emissivity:	0.95
Optical Ratio:	2:1
Laser power:	less than 1 mw
Battery:	1.5V AAA x 3 (included)
Dimensions:	4.8" X 2.4" X 1.2" (121mm X 60mm X 30mm)
Weight:	6.2 oz (180g)



TEST INSTRUMENTS

Temperature & Humidity Testers

ST09

DIGITAL POCKET THERMOMETER

- Range: -40°F to 392°F (-40°C to 200°C)
- Accuracy: +/-2°F (+/-1°C) Full Scale
- Min/Max
- °F/°C Switch
- Updates Every Second
- Data Hold
- Battery Included
- Waterproof
- Auto Off
- Stainless Steel Stem
- Stem Length: 2-1/2"



ST10

DIGITAL POCKET THERMOMETER

- Range: -50°F to 392°F (-45°C to 200°C)
- Accuracy: +/-2°F (+/-1°C) Full Scale
- °F/°C Switch
- Updates Every Second
- Battery Included (Supco # STBAT) Spare Included
- Auto Off
- Stainless Steel Stem
- Stem Length: 4-23/32"



ST01

DIAL POCKET THERMOMETER

- Range: -40°F to 160°F (-40°C to 71°C)
- Dial Size: 1"
- °F Scale Only
- Recalibration Adjust
- Stem Length: 5"



ST02

DIAL POCKET THERMOMETER

- Range: 0°F to 220°F (-18°C to 104°C)
- Dial Size: 1"
- °F Scale Only
- Recalibration Adjust
- Stem Length: 5"



ST08

DIAL POCKET THERMOMETER

- Range: -40°F to 160°F (-40°C to 71°C)
- Dial Size: 1-3/4"
- °F and °C Scales
- Recalibration Adjust
- Stem Length: 5"



ST03

APPLIANCE POCKET THERMOMETER

- Range: -20°F to 80°F (-30°C to 27°C)
- Mounting: Hangs or Stands
- °F and °C Scales
- Unbreakable Lens
- For Refrigerators and Freezers



ST04

APPLIANCE POCKET THERMOMETER

- Range: 100°F to 600°F (-38°C to 315°C)
- Mounting: Hands or Stands
- °F and °C Scales
- Unbreakable Lens
- For Ovens



ST06

APPLIANCE POCKET THERMOMETER

- Range: -40°F to 80°F (-40°C to 27°C)
- Mounting: Hangs Horizontally
- °F and °C Scales
- Unbreakable Lens
- For Refrigerators and Freezers



Temperature & Humidity Testers

TEST INSTRUMENTS

REMOTE DIAL VAPOR TENSION THERMOMETERS

- Stainless Steel Housing
- Analog Dual Scale Dial °F or °C
- 48" Capillary
- Back Connection Mounting Points
- Temperature Range -40°F to 60°F (-40° to 16°C)



S6020HL



S6025HL

PART NO.	DIAL SIZE	FLANGE
S6020BB	2"	Back
S6020FB	2"	Front
S6025FB	2.5"	Front
S6020HL	2"	Front
S6025HL	2.5"	Front



S6025FB



S6020BB



S6020FB

SSDF20 SOLAR POWERED LCD THERMOMETER

- Stainless Steel Housing
- °F or °C Selectable
- Easy to Read LCD Display
- Temperature Update Every 10 Seconds

Specifications

Mounting	Surface front flange / Back connection
Range	-60°F to 160°F (-51°C to 71°C)
Accuracy	+/- 2°F
Dial Size	2"
LCD Display Size	3/8"
Sensor Length	60"
Update Time	10 seconds
On/Off Switch	Yes



THC120 INDOOR DIGITAL THERMO-HYGROMETER WITH CLOCK

- Table Top or Wall Mount
- Measure Temperature & Humidity Simultaneously
- Real Time Clock
- Large Triple Display
- Batteries Included (AAA)

- Min/Max Temperature and Humidity Memory Function
- 1 Year Warranty

Specifications

	TEMPERATURE	HUMIDITY (%RH)
Range	32°F to 120°F 0°C to 50°C	10% to 90%
Resolution	0.1°F	1%
Accuracy	+/-1.8°F or 1.0°C	+/-5%



ST1236-31 SURE TEMP THERMOMETER

The Sure Temp Thermometer is the Least Expensive Device Manufactured Today to Show Exact Temperature in a Case, Reach-In, or Walk-In Cooler.

- Simulates Internal Temperature of a Refrigerated or Frozen Product
- Meets Food Service Criteria
- Includes Bracket and Screw for Easy Mounting
- Operating Temperature -40°F to 180°F



TPFDA K-TYPE THERMOCOUPLE PROBE

- Subminiature Connector with 4' Bead Tip Probe
- FDA Approved Insulation
- Temperature Range -40°F to 550°F, -40°C to 288°C



TPFDA

Infrared Thermometers

LIT11TC INFRARED THERMOMETER

- 11:1 Optical Ratio
- Laser Pointer
- High & Low Temperature Range
- Backlight
- Carrying Case Included
- K-Type Thermocouple (probe included)

Specifications

Optical Ratio	11:1
Temperature Range	-76°F to 932°F (-60°C to 500°C)
Best Resolution	.1°F (.1°C)
Accuracy	+/-2°F (+/-1°C)
Emissivity	0.95 Adjustable
Automatic Shut Off	Yes
Power Supply	2 AAA Batteries (Included)
Weight	6.3 oz. (179g)
Dimensions	6.9" x 1.5" x 2.8" (175mm x 39mm x 71mm)



LIT6P INFRARED THERMOMETER WITH PROBE SENSOR

- 2 Measurement Modes: Infrared & Probe Sensor
- 6:1 Optical Ratio
- Single Dot Laser Targeting
- °F/°C Selectable
- Data Hold
- Low Battery Indication
- Carrying Case Included

Probe Sensor Specifications

Temperature Range	-58°F to 518°F (-20°C to 270°C)
Resolution	0.2°F for -58°F to 392°F (0.1°C for -50°C to 200°C) 2°F for 392°F to 518°F (1°C for 200°C to 270°C)
Accuracy	1.5% of Reading for -58°F to -4°F (-50°C to -20°C) 1% of Reading for -4°F to 392°F (-20°C to 200°C) 2% of Reading for 392°F to 518°F (200°C to 270°C)
Over Range Indication	"OL" or "-OL"
Auto Power Off	After 30 Seconds
Battery	1.5V x 3 (AAA)
Dimensions	7.1" x 1.9" x 1.7" (182mm x 49mm x 43mm)
Weight	4.2oz. (120g)



Infrared Specifications

Temperature Range	-4°F to 518°F (-20°C to 270°C)
Resolution	0.1°F (0.1°C)
Accuracy	+/-9°F for -4°F to 32°F (+/-5°C for -20°C to 0°C) +/- 1.5% of Readings for 32°F to 518°F (0°C to 270°C)
Emissivity	0.97

PIT6L MINI INFRARED THERMOMETER WITH AMBIENT TEMP.

- 6:1 Optical Ratio
- Single Dot Laser Targeting
- Ambient Temperature (Tamb) Measurement
- °F/°C Selectable
- Data Hold
- Back Light
- Low Battery Indication

Specifications

Temperature Range	-4°F to 518°F (-20°C to 270°C)
Accuracy	+/-9°F for -4°F to 32°F (+/-5°C for -20°C to 0°C) +/-1.5% of Reading +/-6°F for 32°F to 518°F (+/-1.5% of Reading +/-3.0°C for 0°C to 270°C)
Tamb Range	32°F to 122°F (0°C to 50°C)
Resolution	1°F (1°C)
Emissivity	0.95
Over Range Indication	"OL" or "-OL"
Auto Power Off	After 20 Seconds
Battery	1.5V x 3 (AAA)
Dimensions	3.9" x 2.3" x 0.9" (98mm x 58mm x 22mm)
Weight	2.5oz. (72g)



PIT1 INFRARED THERMOMETER

- 1:1 Optical Ratio
- Pocket Size
- Min/Max Measurements

Specifications

Optical Ratio	1:1	Emissivity	0.95 Adjustable
Temperature Range	-27°F to 428°F (-33°C to 220°C)	Automatic Shut Off	Yes
Best Resolution	.1°F (.1°C)	Power Supply	CR2032 (Included)
Accuracy	+/-2% of Reading or +/-4°F (2°C)	Weight	1.3 oz. (32g)
		Dimensions	.7" x 1.5" x 2.7" (18mm x 37mm x 68mm)



Temperature Alarms & Controls



TEST INSTRUMENTS

TA SERIES

COMPLETE LINE OF TEMPERATURE ALARMS

Protect All Your Temperature Sensitive Areas.

- Adjustable Alarm Temperature Ranges
- Audible dB and Visual Alarm
- Switch for "No Delay" or "1 Hour Delay"
- Built-In Terminals for Remote Alarm or Telephone Dialer Connection (Except TA7)

TA44

SINGLE SET POINT TEMPERATURE ALARM WITH DIGITAL DISPLAY AND REMOTE WIRELESS ALARM

Multiple Transmitters and Receivers Can Be Used to Monitor Temperature at Several Locations.

- Over and Under Temperature Modes
- Large LCD Digital Display
- FCC Compliant Class B Digital Device, Pursuant to Part 15 of the FCC Rules
- 90 dB Audible Alarm

TA44 INCLUDES	
TA44T	Transmitter
R10	Receiver



TA44 Accessories

R10	Remote Receiver
20540	Temperature Sensor
SW25	25' Extension Wire
SW50	50' Extension Wire
SW75	75' Extension Wire
SW100	100' Extension Wire
ADTA	Phone Dialer

TA44 Specifications

Alarm Adjustment Range	-40°F to 160°F (-40°C to 71°C)
Temperature Accuracy	+/- 2°F (+/- 1°C)
Operating Temperature Range	-10°F to 130°F (-23°C to 54°C)
Dimensions	4.9" X 3.1" X 1.5" (12.4cm x 7.9cm x 3.8cm)
Temperature Units	°F or °C, user selectable
Power	12V adapter 120 VAC with 6' cable
Remote Connections	Screw type, 120 VAC, 5 AMPS
Remote Wireless Alarm	Up to 500' (150m) line of sight remote wireless operation

R10 Specifications

Operating Temperature Range	-20°F to 160°F (-28°C to 70°C)
Audible Alarm	110 dB
Dimensions	5" X 2.5" X 1.25" (12.7cm x 6.35cm x 3.175cm)
Power	12V adapter 120 VAC with 6' cable
Remote Wireless Alarm	Up to 500' (150m) line of sight remote wireless operation

TA33

TEMPERATURE ALARM WITH DISPLAY & BATTERY BACKUP

The Battery Backup Allows Continuous Monitoring Even During Power Outages.

- Adjustable Range From -40°F to 160°F (-40°C to 71°C)
- Backlit Display
- 90 dB Audible Alarm

Specifications

Alarm Adjustment Range	-40°F to 160°F (-40° to 71°C)
Temperature Accuracy	+/- 2°F (+/- 1°C)
Alarm Channels	1
Probe	Precision Thermistor with 6 ft. cable (# 21301)
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.
Unit Operating Temperature Range	-10°F to 130°F (-23°C to 54°C)
Remote Alarm Connections	Screw type, 120VAC, 10 Amps.
Power	12 V Adapter 120 VAC with 6 ft. cable included (220V available). 24 Hrs 9V Battery backup.
Case	Hi-impact thermoplastic
Mounting	Flat Surface, external holes provided
Dimensions	4.8" x 3.2" x 1.4" (12.2cm x 8.1cm x 3.6cm)
Warranty	1 year



TA33 Accessories

21301	Probe
21387	10' Probe Extension
21392	50' Probe Extension
ADTA	Phone Dialer

TA22 SINGLE SET POINT TEMPERATURE ALARM WITH DIGITAL DISPLAY

Easy to Read Display Shows Current Temperature, Alarm Status, Over/Under Mode Indicator, Alarm Set Point and Temperature (°F or °C)

- Adjustable Range From -40°F to 160°F (-40°C to 71°C)
- Back Lit Display
- 90 dB Audible Alarm

PART NO.	DESCRIPTION
TA22	120 VAC
TA22-220EU	220 VAC Europe

Specifications

Alarm Channels	1
Alarm Adjustment Range	-40°F to 160°F (-40°C to 71°C)
Probe	Encapsulated Sensor with 6 ft. cord (# 20540)
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.
Temperature Accuracy	+/-2°F (+/-1°C)
Remote Alarm Connections	Screw Type, 120 VAC 5 Amp max (dry contacts)
Power	115 VAC (220V optional)
Case	Hi-impact thermoplastic
Mounting	Surface, external holes provided
Dimensions	3" x 5" x 1 1/2" (76.2mm x 127mm x 38.1mm)
Weight	13 oz.
Warranty	1 year



TA2 SINGLE SET POINT TEMPERATURE ALARM

A Reliable, Inexpensive Alarm for Refrigerators and Freezers. Just Flip a Switch to Activate on a Rise or Fall in Temperature.

- Adjustable Range From -10°F to 80°F (-25°C to 30°C)
- 90 dB Audible Alarm

PART NO.	DESCRIPTION
TA2	120 VAC Fahrenheit Model
TA2C	120 VAC Celsius Model
TA2-220	220 VAC Fahrenheit Model
TA2-220C	220 VAC Celsius Model

Specifications

Alarm Channels	1
Alarm Adjustment Range	-10°F to 80°F (-25°C to 30°C)
Probe	Encapsulated Sensor with 6 ft. cord (# 20540)
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.
Remote Alarm Connections	Screw Type, 120 VAC 5 Amp max (dry contacts)
Power	115 VAC (220V optional)
Case	Hi-impact thermoplastic
Mounting	Surface, external holes provided
Dimensions	3" x 4 7/8" x 1 5/8" (76.2mm x 101.6mm x 25.4mm)
Weight	13 oz.
Warranty	1 year



TA6 DUAL SET POINT TEMPERATURE ALARM

Alarms on a Rise and Fall in Temperature.

- Adjustable Range From -10°F to 80°F (-25°C to 30°C)
- 90 dB Audible Alarm

PART NO.	DESCRIPTION
TA6	120 VAC Fahrenheit Model
TA6C	120 VAC Celsius Model
TA6-220	220 VAC Fahrenheit Model
TA6-220C	220 VAC Celsius Model

Specifications

Alarm Channels	1
Alarm Adjustment Range	-10°F to 80°F (-25°C to 30°C)
Probe	Encapsulated Sensor with 15 ft. cord (# 20540)
Sensor Type	Thermistor
Maximum Probe Extension	200 ft.
Remote Alarm Connections	Screw Type, 120 VAC 5 Amp max (dry contacts)
Power	115 VAC (220V optional)
Case	Hi-impact thermoplastic
Mounting	Surface, adhesive pads/key hole slot
Dimensions	3" x 4 7/8" x 1 5/8" (76.2mm x 101.6mm x 25.4mm)
Weight	13 oz.
Warranty	1 year



TA7 BATTERY OPERATED TEMPERATURE ALARM

- For Sensitive Temperature Applications in Remote Areas
- Alarms on Rise in Temperature Only
- Adjustable Range From -10°F to 80°F (-25°C to 30°C)
- Battery Operated (9V)

PART NO.	DESCRIPTION
TA7	Fahrenheit Model
TA7C	Celsius Model

Specifications

Alarm Channels	1
Alarm Adjustment	-10°F to 80°F
Range	(-25°C to 30°C)
Probe	Encapsulated Sensor with 6 ft. cord (# TAPROBE)
Sensor Type	Thermistor
Maximum Probe	100 ft.
Extension	
Remote Alarm	None
Connections	
Power	9 VAC alkaline battery (not included)
Case	Hi-impact thermoplastic
Mounting	Surface, external holes provided
Dimensions	5 3/4" x 1 1/2" x 1" (127mm x 38.1mm x 25.4mm)
Weight	5 oz.
Warranty	1 year



TAP4 FOUR (4) PROBE TEMPERATURE ALARM

Set Alarms for 4 Separate Temperature Applications. Provides a Quick Alert for a Multitude of Temperature Problems.

- Adjustable Range From -40°F to 100°F (-40°C to 38°C)
- 90 dB Audible Alarm

PART NO.	DESCRIPTION
TAP4	-40°F to 60°F, 0°F to 100°F, 120V
TAP4-220	-40°F to 60°F, 0°F to 100°F, 220V
TAP4C	-18°C to 38°C, -40°C to 16°C, 120V
TAP4C-220	-18°C to 38°C, -40°C to 16°C, 220V

Specifications

Alarm Channels	4
Alarm Adjustment	-40°F to 60°F, 0°F to 100°F
Range	(-18°C to 38°C, -40°C to 16°C)
Probe	Encapsulated Sensor with 15 ft. cord (4 included)
Sensor Type	Thermistor
Maximum Probe	300 ft.
Extension	
Remote Alarm	Terminal stop screw, connection
Connections	120 VAC, 5 Amp max (dry contacts)
Power	120 VAC or 220 VAC power adapter supplied
Battery Backup	9V alkaline (not included)
Case	NEMA 3 type
Dimensions	6" x 7 1/2" x 3" (152.4mm x 190.5mm x 127mm)
Weight	1.9 lbs. (0.86 kg)
Warranty	1 year



ADTA AUTO DIALER FOR TEMPERATURE ALARMS

Operates with All SUPCO® Temperature Alarms, except TA7.

- Call Up to 4 Telephone Numbers
- 16 Second Message
- Non-Volatile Memory for Numbers and Voice Messages
- Internal 9V Back up Battery (not included)
- LCD Display
- 120V Power Adapter (included)





Temperature Alarms & Controls

THA2 TEMPERATURE HUMIDITY ALARM WITH LOGGING CAPABILITY

- Measures and Logs Temperature, Humidity, Dew Point
- Audible and Visual Alarms
- Digital Display
- Log Up to 170 Days of Data
- Relay Contacts for Remote Alarm or Auto Dialer (ADTA)
- PC Software Included
- Serial Port Connection (for USB Connection Use Optional USBS Adapter)
- Remote Sensor Up to 300 ft.



Specifications

Sensor Probe	
Operating Temperature Range	-40°F to 140°F (-40°C to 60°C)
Operating Humidity Range	0 to 90% RH, non condensing
Temperature Accuracy	+/- 2°F (+/- 1°C)
Temperature Resolution	0.1°F or °C
Humidity Accuracy	+/-2% RH
Humidity Resolution	0.1% RH
Calibration	User calibration for Temperature and Humidity
Dimensions	3.8 inches length with a diameter of 1.1 inches
Weight	0.9 oz.
Cable Length	300 ft. maximum
Base Unit	
Operating Temperature Range	32°F to 130°F (0°C to 54°C)
Storage Temperature	0°F to 130°F (-18°C to 54°C)
Operating Humidity	0% RH to 90% RH, non condensing*
Power Source	12V to 24 VAC/VDC, 0.78W alarm active
Battery Backup	9V alkaline battery for 35 hours operation during power outage
Clock Battery	CR2032, 10 years typical
Relay	N.O and N.C dry contact 5A 250V, resistive load
Dimensions	5.5" x 4.5" x 1.6"
Weight (without battery backup)	8.6 oz.
Alarm Specifications	
Temperature Alarm	High and Low Temperature and Humidity alarms. Condensation alarm
Alarm Delay	User selectable, up to 2 hours
Alarm Indication	Audio, Visual and a relay for remote alarm and phone dialer
Logging Specifications	
Sample Rate	1 second to 30 minutes
Data History Storage	2 hours to 170 days, depending on the sample rate
Memory Capacity	8150 samples for Temperature, Humidity and Dew Point

* The sensor probe is not designed for continuous exposure to high humidity or caustic and or corrosive chemicals such as, but not limited to, concrete or chlorine.

Accessories

Temperature Alarm Specifications

PART NO.	DESCRIPTION	TA22	TA2	TA6	TA7	TAP4
SW25	25' Extension Wire	*	*	*	*	*
SW50	50' Extension Wire	*	*	*	*	*
SW75	75' Extension Wire	*	*	*	*	*
SW100	100' Extension Wire	*	*	*	*	*
11093	Replacement Sensor Old Style (red tip)	*	*			

PART NO.	DESCRIPTION	TA22	TA2	TA6	TA7	TAP4
TA7PROBE	Probe w/ 4' extension wire				*	
14265	Replacement Sensor					*
USBS	USB to Serial Interface			*		
ADTA	Auto Dialer	*	*	*		*
14263	120 V Power Adapter (Supplied)	*	*	*		*
20540	Replacement Sensor 6' new style metal tip (after serial #)	*	*	*		
		405-099				
		412-029				



TEST INSTRUMENTS

Tools

Scan for ATP1 video



ATP1 ATTIC PRO[®] UTILITY LIFT

- Adjustable from 14" to 24"
- 20 ft. Cable Length
- Integrated Locking Hook
- Lifts Up To 250 lbs.
- Sturdy Steel Construction
- Equipment Strap Included
- Carrying Case Included



FIM20 FLEXIBLE INSPECTION MIRROR

- 20" Mirror
- Flexible to 75° Angle
- Polycarbonate Material
- Integrated Flashlight
- Ergonomic Handle
- Carrying Pouch Included
- 6 Per Display Case



TELESCOPING MIRRORS

- Double Ball Joint Head Adjustment
- Extendable/Retractable Design
- Carrying Pouch Included
- Glass Mirrors

PART NO.	DESCRIPTION	EXTENDED LENGT
IM1	1.25" Round Glass Mirror, Pocket Clip	27"
IM2	1" x 2" Oval Glass Mirror, Pocket Clip	28"
IM3	2.25" Round Glass Mirror, Vinyl Grip Handle	14.5"
IM4	2.25" Round Magnifying Glass Mirror, Vinyl Grip Handle	14.5"
IM5	2.25" x 3.25" Rectangular Glass Mirror, Vinyl Grip Handle	15.5"
IMK3	Combination Tool, Pocket Clip Includes: Match Clip, Magnet, 2" Round Mirror & PVC Pouch	27"



UFC1 FIN COMB

- Cleans and Straightens Fins for Better Operating Efficiency



FPT10, FPT13 & FPT15 FIN JACK

- Straightens and Separates Bent Fins Quickly and Easily. One Tool Can Be Used For Up To 3 Sizes Of Fins

PART NO.	DESCRIPTION	COLOR
FPT10	9 & 10 Fins per inch	Black
FPT13	11, 12 & 13 Fins per inch	Orange
FPT15	14, 15 & 16 Fins per inch	Red



FCR6/FCRH6 HANDY RING FIN COMB SET

- Six of the Most Popular Fin Combs Covering Twelve Different Size Fins on a Convenient Ring. Includes FC0810, FC0915, FC1113, FC1214, FC1617 and FC1820
- FCH6 Includes All Above, But "FCH" Instead of "FC"



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Tools

FIN COMBS

- Straighten and Clean Evaporator and Condenser Fins

Standard

FINS PER		
PART NO.	INCH	COLOR
FC0810	8 and 10	Orange
FC0915	9 and 15	Yellow
FC1113	11 and 13	Blue
FC1214	12 and 14	Green
FC1617	16 and 17	Lime
FC1820	18 and 20	Red
FC2224	22 and 24	Purple

High Efficiency

PART NO.	FINS PER INCH	COLOR
FCH0810	8 and 10	Orange
FCH0915	9 and 15	Yellow
FCH1113	11 and 13	Blue
FCH1214	12 and 14	Green
FCH1617	16 and 17	Lime
FCH1820	18 and 20	Red
FCH2224	22 and 24	Purple



FL6N1 6 IN 1 FLASHLIGHT

- 6 Distinct Functions
- 18 Powerful Ultra Bright White LEDs
- Red Laser Pointer
- 6 Pack Counter Display
- 18 Bright White LEDs Emergency Flasher
- 6 Powerful UV LEDs Reveal the Invisible
- Directional Compass

18 Bright White LEDs 216,000 MCD



18 Bright White LEDs in Flash Mode



6 UV LEDs Reveal the Invisible



6 Green LEDs Help Maintain Night Vision



Laser Travels Over 450 Yards



Directional Compass



PL6 STICK LIGHT

- 6 Super Bright LEDs
- Long Life
- Pocket Clip
- Sold in 12-pack Counter Display



FLT3M TELESCOPING LED FLASHLIGHT

- Multi-Function LED Flashlight
- 3 Super Bright LEDs with Handy On/Off Button
- Powerful Magnet on Grip Handle & Light Tip
- Flexible Shaft for Hard to Reach Places
- Extendable to 21" (53cm)
- 1.5" (3.81cm) Round Inspection Mirror Attachment
- Pocket Clip for Secure Storage
- Batteries: 4-LR44 Included & Installed in Light Tip



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Tools

UVL200 UV LEAK DETECTION LIGHT & GLASSES

- 9 LED Bulbs for High Intensity
- Impact Resistant Glasses



FP18 FILTER PULLER

Makes Getting to Hard-To-Reach Filters Easy!

- 18" Extension
- Magnetic Tip
- Ergonomic Handle



ESPRO1 STATIC PRO WRIST STRAP

Dissipates Static During Electronic Repair and Maintenance

- Current Limiting Resistor
- Adjustable



GFK1 GREASE KIT

- One Time Installation
- Provides Easy Access to Hard-To-Reach Lubrication Points
- Makes Preventative Maintenance (PM's) Routine
- Eliminates Need for Cover Removal and Equipment Disassembly
- Complete with 10' High Pressure Tubing and Required Fittings
- Tubing Rated -60°F to 200°F



TB123A SPANNER WRENCH

- Wrench for Removing and Installing Washer Tub Retainer Nut
- Approximately 14" L x 2 1/2" W x 3/8" H



SCWG3 WATER GUARD

- Fits Around Inlet Hose
- Starts Operation Immediately After Installation
- Prevents and Removes Limestone
- Saves Energy and Water
- 3 Magnets Per Side



SCWG4 SUPER WATER GUARD

- Fits Around Inlet Hose
- Starts Operation Immediately After Installation
- Prevents and Removes Limestone
- Saves Energy and Water
- 4 Magnets Per Side



445 KD® INTERNAL SNAP RING PLIER



446 KD® EXTERNAL SNAP RING PLIER



447 KD® REPLACEMENT TIPS FOR 445 & 446



145 KD® HOSE PINCH OFF PLIER



3793 2.5" OD HOSE PINCH-OFF PLIERS

- Extra Long Cushioned Hand Grips for Comfort and Control
- Patented Clamping Mechanism Locks Automatically. No Screws or Levers to Set or Adjust
- Black Oxide Coated to Resist Rust and Corrosion



3975 KD® CORBIN HOSE CLAMP PLIER



FBP100 FAN BLADE PULLER

- Sturdy, Heavy Duty Steel
- 5/8" Steel Center Shaft
- 4 Pull Fingers
- Alignment Tool Included
- Has Flats for Wrench
- Fine Thread Version Provides Additional Torque & Pulling Power



Tools

CTP1 CAPILLARY TUBE CUTTER

- 5" Stripper and Cutter. Fast, Efficient and All Purpose



FP1 FAUCET PRO

- For Easy Installation
- Slots Fit Most Hose Fittings
- Integrated Torque Amplifier



TC2 HEAVY DUTY TUBE CUTTER

- For Clean Cuts in Hard or Soft Copper, Aluminum, Brass, Thin Wall Steel and Stainless Steel
- Complete with Foldaway Reamer Blade and Spare Cutting Wheel
- Rollers have Flared Cut Off Groove
- Cuts Tubes from 1/8" Thru 1 1/8" O.D.
- Replacement Cutting Wheel P/N: TC2W



SF4311 "FASTAP" TUBE PIERCING PLIERS

- Fast Refrigerant Recovery: Just Clamp and Recover
- Tubing Sizes 1/4" to 7/8" O.D.
- Replaceable Self-Sharpening Tip
- Simple To Use
- Light Weight



SF4314 TUBE PIERCING PLIERS REPLACEMENT TIP



SF3970 INTERNAL TEMPERATURE READING TOOL

Take Internal Temperatures of Refrigerant Lines Digitally

- Accurately Adjust Superheat
- Simple Instructions
- Inserts Through Access Fitting (supplied)
- Includes Core Removal Tool and Digital Thermometer



DHS55 DIGITAL HANDHELD SCALE

This Compact Handheld Scale Provides Quick Measurements for your Refrigeration Applications

- 55 lbs Max Scale
- 2% Accuracy
- One Button Operation
- Auto Shut Off
- Lbs/Kgs Switchable
- Max Weight Memory
- 9V Battery Included



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Tools

HVT2 SAFE-T-TESTER SCREWDRIVER

- 110-220 VAC
- Light in Handle Indicates Power



FWB1 FIN WISK BRUSH

- Long Lasting, Sturdy Bristle Design



RCB1 REFRIGERATION COIL BRUSH

- 27 1/2" Long
- 12" Brush Length
- 1 1/2" and 3/4" Bristle Length



AIR CONDITIONING & REFRIGERATION WRENCHES

PART NO.	DESCRIPTION
RW516	1/4" - 3/16" Sq. x 3/8" - 5/16" Hex
RW916	1/4" - 3/16" Sq. x 1/2" - 9/16" Hex
RWA10	Hex adapter for refrigeration wrenches



RW516

UW1 UNIVERSAL WRENCH

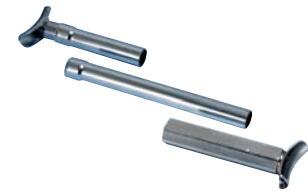
- Sizes from 1/4", 5/16", 11/32" and 3/8"



BJ10 BELT-JACK INSTANT BELT TIGHTENER

Designed to Set Belt Tension and to Help Align Pulleys on All Belt Driven Units Including Blower Motors, Compressors, Transmissions and Automotive Components

- Opens from 4 1/2" to 15" with Extender
- Heavy Duty 3/8-16 Thread



TC103 TEST CORD

- 6' Length, Heavy Duty, 16 Gauge Wire
- Male Plug to Medium Duty Spring Clips
- 2 Wire, Black/Red



Tools

SR6N1 6 IN 1 RATCHET SCREWDRIVER

- Ratchet Action
- 3-Settings: Forward, Manual, Reverse
- Bit Sizes: Slotted 3/16" and 1/4", Phillips #1 and #2, Nut Driver 1/4" and 5/16"
- 12 Pack Counter Display



LBIT LARGE PHILLIPS/SLOTTED REPLACEMENT BIT

- SR6N1 Replacement Bit



SBIT SMALL PHILLIPS/SLOTTED REPLACEMENT BIT

- SR6N1 Replacement Bit



DA86420 4 IN 1 MULTI-SOCKET

- Replaces the Four Most Common Nut Drivers
- SAE Socket Sizes 1/4", 3/8", 5/16", 7/16"
- Telescoping Action Provides Two Socket Sizes at Each End
- High-Torque Grip Textured, Non-Slip Surface
- 12/Display Box



SAB454 SECURITY MULTI-DRIVER

- Features Extra-Long 3" Nosepiece Reaches Even Recessed Fasteners
- Includes 14 Security Tips Plus 2 Standard Tips on Eight 3" Long, Double-Ended Bits
- Countertop Display of 12

Bits Included

Hex Security	1/8", 9/64", 5/32", 3/16"
Spanner	4, 6, 8, 10
Roberts Security	1, 2
Torx Security	10, 15, 20, 25
Phillips	2
Slot	7/32"



SAB233 CLASSIC MULTI-DRIVER

- Standard Size Driver. Replaces 16 of the Most Frequently Used Bits

Bits Included

Hex Security	3/32", 1/8", 5/32", 3/16"
Roberts Security	2, 3
Torx Security	15, 20, 25, 30
Phillips	0, 1, 2, 3
Slot	1/4", 3/16"



SAB710 RATIO MULTI-DRIVER

- Multi-Driver Replaces 16 Screwdrivers
- 4 to 1 Ratio Nosepiece Turns Four Times with Each Turn of the Handle
- 1 to 1 Ratio Nosepiece Turns with the Handle
- Reversible Ratchet Changes Direction Quickly with One Hand, Even During Use
- 8 Extra-Long (3") Double-Ended Bits. Bits Stored in the Handle and a 1/4" Nut Driver in the Nose

Bits Included

Hex Security	3/32", 1/8", 5/32", 3/16"
Roberts Security	2, 3
Torx Security	15, 20, 25, 30
Phillips	0, 1, 2, 3
Slot	1/4", 3/16"



DA76070 2 IN 1 CUTTER/STRIPPER

- Cuts Wire with One End, Grabs and Strips Wire with the Other
- Stripper Self-Adjusts to Wire; No Stripping Holes
- Cutting Head is Full-Flush Cutting and Low Profile with Stainless Steel, Induction-Hardened Jaws



ELB320 HEAVY DUTY PLIERS - 11" EXTENDED

- Specialty Pliers, 11" Reach
- Professional Quality
- Two-Color Textured Handles



DA76190 DUAL SNAP RING PLIERS

- Lighten Your Toolbox
- All-In-One Tool Removes Both Internal and External Snap Rings
- Spring-Loaded Oversized Handle, Cushioned for Comfortable Use



RC2108 & RC2110 PRECISION ADJUSTABLE WRENCHES

- Oversized Jaw Opens 18% Wider than Standard Wrenches
- Dual Calibrated Jaw
- Oversized Grip has Superior Balance to Reduce Hand Fatigue
- Constructed of Heavy-Gauge, Industrial-Quality Steel Insuring Durability



RC2108

ELB721 MINI CABLE TIE GUN

- The Right Cable Tie Gun for Small Jobs
- Compact Size Accommodates Plastic Cable Ties up to 0.25" in Width
- Twist Cable Gun to Cut and Trim Off Excess Cable Tie Length



ELB701-L CABLE SPLICING KNIFE

- Coping-Type Blade is Machined From Fine Cutlery Steel
- Non-Slip, Textured Rubberized Handle
- Heavy-Duty Leather Carrying Sheath Included



Terminals & Connectors

INSULATED MALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM
T2003	Pack of 20 pc.	16-14	.187	PK
T2003C	Pack of 100 pc.	16-14	.187	PK
T1003	Pack of 20 pc.	16-14	.250	PK
T1003C	Pack of 100 pc.	16-14	.250	PK
T1004	Pack of 15 pc.	12-10	.250	PK
T1004C	Pack of 100 pc.	12-10	.250	PK



T1003



T1004

NON-INSULATED MALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM
T1103	Pack of 20 pc.	16-14	.250	PK
T1103C	Pack of 100 pc.	16-14	.250	PK



T1103

INSULATED FEMALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM
T2004	Pack of 20 pc.	22-18	.250	PK
T2004C	Pack of 100 pc.	22-18	.250	PK
T2002	Pack of 20 pc.	16-14	.187	PK
T2002C	Pack of 100 pc.	16-14	.187	PK
T1002	Pack of 20 pc.	16-14	.250	PK
T1002C	Pack of 100 pc.	16-14	.250	PK
T1001	Pack of 15 pc.	12-10	.250	PK
T1001C	Pack of 100 pc.	12-10	.250	PK



T2004



T2002



T1002



T1001

NON-INSULATED FEMALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM
T2001	Pack of 20 pc.	22-18	.110	PK
T2001C	Pack of 100 pc.	22-18	.110	PK
T1105	Pack of 20 pc.	16-14	.187	PK
T1105C	Pack of 100 pc.	16-14	.187	PK
T1102	Pack of 20 pc.	16-14	.250	PK
T1102C	Pack of 100 pc.	16-14	.250	PK
T1107	Pack of 20 pc.	22-18	.110	PK
T1107C	Pack of 100 pc.	22-18	.110	PK



T2001



T1105



T1107

FULLY INSULATED FEMALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM
T1007	Pack of 10 pc.	22-18	.250	PK
T1007C	Pack of 100 pc.	22-18	.250	PK
T1005	Pack of 10 pc.	16-14	.250	PK
T1005C	Pack of 100 pc.	16-14	.250	PK
T1009	Pack of 10 pc.	12-10	.250	PK
T1009C	Pack of 100 pc.	12-10	.250	PK



T1007



T1005



T1009

FULLY INSULATED MALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM
T1006	Pack of 10 pc.	16-14	.250	PK
T1006C	Pack of 100 pc.	16-14	.250	PK
T1010	Pack of 10 pc.	12-10	.250	PK
T1010C	Pack of 100 pc.	12-10	.250	PK



T1006



T1010

Terminals & Connectors

TAP CONNECTORS

PART NO.	DESCRIPTION	WIRE RANGE	UOM	ORDER MULTIPLE
T1062	Pack of 10 pc.	16-14	PK	1
T1062C	Pack of 100 pc.	16-14	PK	1
T1061	Pack of 10 pc.	22-18	PK	1
T1061C	Pack of 100 pc.	22-18	PK	1
T1064	Pack of 5 pc.	12-10	PK	1
T1064C	Pack of 100 pc.	12-10	PK	1
T1065	Pack of 10 pc.	18-14	PK	1
T1065C	Pack of 100 pc.	18-14	PK	1



T1064



T1061

INSULATED CLOSED END CONNECTORS

PART NO.	DESCRIPTION	WIRE RANGE	UOM	ORDER MULTIPLE
T1056	Pack of 20 pc.	22-14	PK	1
T1056C	Pack of 100 pc.	22-14	PK	1
T1057	Pack of 15 pc.	16-14	PK	1
T1057C	Pack of 100 pc.	16-14	PK	1
T1058	Pack of 15 pc.	18-10	PK	1
T1058C	Pack of 100 pc.	18-10	PK	1
T1059	Pack of 15 pc.	NA	PK	1
T1059C	Pack of 100 pc.	8	PK	1



T1056



T1057



T1058

INSULATED TAB ADAPTERS - PIGGY BACK SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	UOM	ORDER MULTIPLE
T1027	Pack of 10 pc.	16-14	PK	1
T1027C	Pack of 100 pc.	16-14	PK	1
T1028	Pack of 10 pc.	22-18	PK	1
T1028C	Pack of 100 pc.	22-18	PK	1
T1029	Pack of 10 pc.	12-10	PK	1
T1029C	Pack of 100 pc.	12-10	PK	1



T1027



T1028



T1029

NON-INSULATED FLAG FEMALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1106	Pack of 20 pc.	16-14	.187	PK	1
T1106C	Pack of 100 pc.	16-14	.187	PK	1
T1104	Pack of 20 pc.	16-14	.250	PK	1
T1104C	Pack of 100 pc.	16-14	.250	PK	1



T1104

FLAG FEMALE COMPRESSOR TERMINALS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1129	Pack of 10 pc.	12-8	.250	PK	1
T1129C	Pack of 100 pc.	12-8	.250	PK	1
T1130	Pack of 10 pc.	16-14	.250	PK	1
T1130C	Pack of 100 pc.	16-14	.250	PK	1



T1129



T1130

EC10 COMPRESSOR LEAD KIT

Kit Includes Three Leads:

- Three - 23", 10 AWG Wires
- Flag Female Compressor Terminal (.250 tab)
- Waterproof Butt Connector (12-10 Wire Range)
- Sandpaper

PART NO.	DESCRIPTION	UOM	ORDER MULTIPLE
EC10	Kit with 12" Wire	EA	1



Terminals & Connectors

TERMINALS & CONNECTORS

INSULATED BUTT CONNECTORS

PART NO.	DESCRIPTION	WIRE RANGE	UOM	ORDER MULTIPLE
T1051	Pack of 20 pc.	22-18	PK	1
T1051C	Pack of 100 pc.	22-18	PK	1
T1052	Pack of 20 pc.	16-14	PK	1
T1052C	Pack of 100 pc.	16-14	PK	1
T1053	Pack of 15 pc.	12-10	PK	1
T1053C	Pack of 100 pc.	12-10	PK	1



NON-INSULATED BUTT CONNECTORS

PART NO.	DESCRIPTION	WIRE RANGE	UOM	ORDER MULTIPLE
T2112	Pack of 20 pc.	12-10	PK	1
T2112C	Pack of 100 pc.	12-10	PK	1
T1119	Pack of 20 pc.	22-18	PK	1
T1119C	Pack of 100 pc.	22-18	PK	1
T2111	Pack of 20 pc.	16-14	PK	1
T2111C	Pack of 100 pc.	16-14	PK	1
T2067	Pack of 20 pc.	#8	PK	1
T2067C	Pack of 100 pc.	#8	PK	1
T2068	Pack of 20 pc.	#6	PK	1
T2068C	Pack of 100 pc.	#6	PK	1



INSULATED SPADES

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1047	Pack of 20 pc.	22-18	#8	PK	1
T1047C	Pack of 100 pc.	22-18	#8	PK	1
T1048	Pack of 20 pc.	16-14	#10	PK	1
T1048C	Pack of 100 pc.	16-14	#10	PK	1
T1049	Pack of 15 pc.	12-10	#10	PK	1
T1049C	Pack of 100 pc.	12-10	#10	PK	1
T1050	Pack of 15 pc.	12-10	#8	PK	1
T1050C	Pack of 100 pc.	12-10	#8	PK	1



NON-INSULATED SPADES

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1145	Pack of 10 pc.	22-18	#10	PK	1
T1145C	Pack of 100 pc.	22-18	#10	PK	1
T1146	Pack of 10 pc.	16-14	#10	PK	1
T1146C	Pack of 100 pc.	16-14	#10	PK	1
T1147	Pack of 10 pc.	12-10	#10	PK	1
T1147C	Pack of 100 pc.	12-10	#10	PK	1



INSULATED FLANGE SPADES

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1042	Pack of 20 pc.	22-18	#8	PK	1
T1042C	Pack of 100 pc.	22-18	#8	PK	1
T1043	Pack of 20 pc.	16-14	#8	PK	1
T1043C	Pack of 100 pc.	16-14	#8	PK	1
T1044	Pack of 20 pc.	16-14	#10	PK	1
T1044C	Pack of 100 pc.	16-14	#10	PK	1
T1046	Pack of 15 pc.	12-10	#10	PK	1
T1046C	Pack of 100 pc.	12-10	#10	PK	1



Terminals & Connectors

NON-INSULATED FLANGE SPADES

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1141	Pack of 20 pc.	22-18	#8	PK	1
T1141C	Pack of 100 pc.	22-18	#8	PK	1
T1142	Pack of 20 pc.	22-18	#10	PK	1
T1142C	Pack of 100 pc.	22-18	#10	PK	1
T1143	Pack of 20 pc.	16-14	#8	PK	1
T1143C	Pack of 100 pc.	16-14	#8	PK	1
T1144	Pack of 20 pc.	16-14	#10	PK	1
T1144C	Pack of 100 pc.	16-14	#10	PK	1



T1141



T1142



T1143



T1144

INSULATED RINGS

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1030	Pack of 10 pc.	22-18	#6	PK	1
T1030C	Pack of 100 pc.	22-18	#6	PK	1
T1031	Pack of 20 pc.	22-18	#8	PK	1
T1031C	Pack of 100 pc.	22-18	#8	PK	1
T2033	Pack of 20 pc.	16-14	#6	PK	1
T2033C	Pack of 100 pc.	16-14	#6	PK	1
T1032	Pack of 20 pc.	22-18	#10	PK	1
T1032C	Pack of 100 pc.	22-18	#10	PK	1
T1033	Pack of 20 pc.	16-14	#8	PK	1
T1033C	Pack of 100 pc.	16-14	#8	PK	1
T1034	Pack of 20 pc.	16-14	#10	PK	1
T1034C	Pack of 100 pc.	16-14	#10	PK	1
T1035	Pack of 15 pc.	16-14	1/4"	PK	1
T1035C	Pack of 100 pc.	16-14	1/4"	PK	1
T1039	Pack of 15 pc.	16-14	3/8"	PK	1
T1039C	Pack of 100 pc.	16-14	3/8"	PK	1
T1036	Pack of 15 pc.	12-10	#8	PK	1
T1036C	Pack of 100 pc.	12-10	#8	PK	1
T1037	Pack of 15 pc.	12-10	#10	PK	1
T1037C	Pack of 100 pc.	12-10	#10	PK	1
T1038	Pack of 15 pc.	12-10	1/4"	PK	1
T1038C	Pack of 100 pc.	12-10	1/4"	PK	1
T1040	Pack of 15 pc.	12-10	3/8"	PK	1
T1040C	Pack of 100 pc.	12-10	3/8"	PK	1
T2065	Pack of 15 pc.	8	1/4"	PK	1
T2065C	Pack of 100 pc.	8	1/4"	PK	1
T2066	Pack of 15 pc.	6	1/4"	PK	1
T2066C	Pack of 100 pc.	6	1/4"	PK	1



T1030



T1031



T2033



T1032



T1033



T1034



T1035



T1039



T1036



T1037



T1038



T1040



T2066

NON-INSULATED RINGS

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1131	Pack of 10 pc.	22-18	#8	PK	1
T1131C	Pack of 100 pc.	22-18	#8	PK	1
T1133	Pack of 20 pc.	16-14	#8	PK	1
T1133C	Pack of 100 pc.	16-14	#8	PK	1
T1134	Pack of 20 pc.	16-14	#10	PK	1
T1134C	Pack of 100 pc.	16-14	#10	PK	1
T1135	Pack of 20 pc.	16-14	1/4"	PK	1
T1135C	Pack of 100 pc.	16-14	1/4"	PK	1
T1136	Pack of 20 pc.	12-10	#8	PK	1
T1136C	Pack of 100 pc.	12-10	#8	PK	1
T1137	Pack of 20 pc.	12-10	#10	PK	1
T1137C	Pack of 100 pc.	12-10	#10	PK	1
T1138	Pack of 15 pc.	12-10	1/4"	PK	1
T1138C	Pack of 100 pc.	12-10	1/4"	PK	1



T1135



T1136

Terminals & Connectors

TERMINALS & CONNECTORS

HIGH TEMPERATURE FEMALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1111	Pack of 20 pc.	16-14	.250	PK	1
T1111C	Pack of 100 pc.	16-14	.250	PK	1
T1112	Pack of 15 pc.	12-10	.250	PK	1
T1112C	Pack of 100 pc.	12-10	.250	PK	1



T1111



T1112

HIGH TEMPERATURE FLAG FEMALE SLIP-ONS

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1113	Pack of 20 pc.	16-14	.250	PK	1
T1113C	Pack of 100 pc.	16-14	.250	PK	1
T1114	Pack of 20 pc.	12-10	.250	PK	1
T1114C	Pack of 100 pc.	12-10	.250	PK	1



T1113



T1114

HIGH TEMPERATURE RINGS

PART NO.	DESCRIPTION	WIRE RANGE	STUD	UOM	ORDER MULTIPLE
T1115	Pack of 20 pc.	16-14	#10	PK	1
T1115C	Pack of 100 pc.	16-14	#10	PK	1
T1116	Pack of 20 pc.	16-14	1/4"	PK	1
T1116C	Pack of 100 pc.	16-14	1/4"	PK	1
T1117	Pack of 20 pc.	12-10	#10	PK	1
T1117C	Pack of 100 pc.	12-10	#10	PK	1
T1118	Pack of 15 pc.	12-10	1/4"	PK	1
T1118C	Pack of 100 pc.	12-10	1/4"	PK	1



T1115



T1116



T1117



T1118

NON-INSULATED RECEPTACLES

PART NO.	DESCRIPTION	WIRE RANGE	UOM	ORDER MULTIPLE
T1110	Pack of 20 pc.	16-14	PK	1
T1110C	Pack of 100 pc.	16-14	PK	1



T1110

TAB ADAPTERS - SINGLE FEMALE - DOUBLE MALE

PART NO.	DESCRIPTION	TAB SIZE	UOM	ORDER MULTIPLE
T1122	Pack of 10 pc.	.250	PK	1
T1122C	Pack of 100 pc.	.250	PK	1
T1125	Pack of 10 pc.	.250	PK	1
T1125C	Pack of 100 pc.	.250	PK	1



T1122



T1125

TAB ADAPTERS - MALE TABS

PART NO.	DESCRIPTION	TAB SIZE	STUD	UOM	ORDER MULTIPLE
T1123	Pack of 10 pc.	.250	#10	PK	1
T1123C	Pack of 100 pc.	.250	#10	PK	1



T1123

TAB ADAPTERS - QUICK DISCONNECT WITH SCREW

PART NO.	DESCRIPTION	TAB SIZE	SCREW	UOM	ORDER MULTIPLE
T1124	Pack of 10 pc.	.250	#6	PK	1
T1124C	Pack of 100 pc.	.250	#6	PK	1



T1124

Terminals & Connectors

CHAIR TERMINALS

PART NO.	DESCRIPTION	TAB SIZE	UOM	ORDER MULTIPLE
T1121	Pack of 10 pc.	.250, 2 Male x 1 Female QC	PK	1
T1121C	Pack of 100 pc.	.250, 2 Male x 1 Female QC	PK	1



T1121

QUICK DISCONNECTS - INSULATED ROUND

PART NO.	DESCRIPTION	TAB SIZE	UOM	ORDER MULTIPLE
T1021	Pack of 10 pc.	.250, Double Male Tab	PK	1
T1021C	Pack of 100 pc.	.250, Double Male Tab	PK	1



T1021

QUICK DISCONNECTS - INSULATED SQUARE

PART NO.	DESCRIPTION	TAB SIZE	UOM	ORDER MULTIPLE
T1022	Pack of 10 pc.	.250, Double Male Tab	PK	1
T1022C	Pack of 100 pc.	.250, Double Male Tab	PK	1



T1022

QUICK DISCONNECTS - INSULATED

PART NO.	DESCRIPTION	TAB SIZE	UOM	ORDER MULTIPLE
T1023	Pack of 10 pc.	.250, Triple Male Tab	PK	1
T1023C	Pack of 100 pc.	.250, Triple Male Tab	PK	1



T1023

QUICK DISCONNECTS - NON-INSULATED

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1108	Pack of 20 pc. Bullet Male	16-14	.157	PK	1
T1108C	Pack of 100 pc. Bullet Male	16-14	.157	PK	1



T1108

QUICK DISCONNECTS - NON-INSULATED

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1109	Pack of 20 pc. Female Tab w/ Crimp	16-14	.250	PK	1
T1109C	Pack of 100 pc. Female Tab w/ Crimp	16-14	.250	PK	1



T1109

QUICK DISCONNECTS - NON-INSULATED

PART NO.	DESCRIPTION	WIRE RANGE	TAB SIZE	UOM	ORDER MULTIPLE
T1120	Pack of 10 pc. Female Tab w/ Crimp	16-14	.312	PK	1
T1120C	Pack of 100 pc. Female Tab w/ Crimp	16-14	.312	PK	1



T1120

Terminals & Connectors

TERMINALS & CONNECTORS

WIRE CONNECTORS - PLASTIC

PART NO.	DESCRIPTION	UOM	ORDER MULTIPLE
T1150	Pack of 20 pc., Small Blue w/ Spring Insert	PK	1
T1150C	Pack of 100 pc., Small Blue w/ Spring Insert	PK	1
T1151	Pack of 15 pc., Medium Orange w/ Spring Insert	PK	1
T1151C	Pack of 100 pc., Medium Orange w/ Spring Insert	PK	1
T1152	Pack of 15 pc., Large Yellow w/ Spring Insert	PK	1
T1152C	Pack of 100 pc., Large Yellow w/ Spring Insert	PK	1
T1153	Pack of 10 pc., Extra Large Red w/ Spring Insert	PK	1
T1153C	Pack of 100 pc., Extra Large Red w/ Spring Insert	PK	1



T1150



T1151



T1152



T1153

WIRE CONNECTORS - PORCELAIN HIGH TEMPERATURE (UP TO 1800°F)

PART NO.	DESCRIPTION	GAUGE (AWG)	STUD	UOM	ORDER MULTIPLE
T1164	Pack of 15 pc.	18-14	#1	PK	1
T1164C	Pack of 100 pc.	18-14	#1	PK	1
T1165	Pack of 15 pc.	12-10	#3	PK	1
T1165C	Pack of 100 pc.	12-10	#3	PK	1
T2070	Pack of 10 pc.	10-8	#7	PK	1
T2070C	Pack of 100 pc.	10-8	#7	PK	1



T1164



T1165



T2070

WIRE CONNECTORS - SCOTCHLOK® SPRING

PART NO.	DESCRIPTION	UOM	ORDER MULTIPLE
T1166	Pack of 15 pc., Small Yellow Spring	PK	1
T1166C	Pack of 100 pc., Small Yellow Spring	PK	1
T1167	Pack of 10 pc., Medium Red Spring	PK	1
T1167C	Pack of 100 pc., Medium Red Spring	PK	1
T1168	Pack of 5 pc., Large Grey Spring	PK	1
T1168L	Pack of 50 pc., Large Grey Spring	PK	1
T1169	Pack of 5 pc., Extra Large Blue Spring	PK	1
T1169L	Pack of 50 pc., Extra Large Blue Spring	PK	1



T1166



T1167



T1168



T1169

BANANA PLUG - INCLUDES BLACK & RED INSULATORS

PART NO.	DESCRIPTION
T1179	1 Pair



HEAVY DUTY ALLIGATOR CLIPS

PART NO.	DESCRIPTION	UOM	ORDER MULTIPLE
T1186	Small, Includes Black and Red Insulators	PK	1
T1187	Medium, Includes Black and Red Insulators	PK	1
T1188	Large, Includes Black and Red Insulators	PK	1



T1186

Terminals & Connectors

ALLIGATOR CLIPS - STANDARD

PART NO.	DESCRIPTION	UOM	ORDER MULTIPLE
T1191	Small	PK	1
T1192	Medium	PK	1
T1193	Medium, For Use with Test Leads	PK	1
T1196	Small, Includes Black and Red Insulators	PK	1
T1197	Medium, Includes Black and Red Insulators	PK	1



Cable Clamps, Grommets, Heat Shrink Tubing, Cable & Duct Ties

Available in Two Convenient Packages:

- The Service Pack - Handy and Low Priced, Ideal for Small Jobs
- The C Pack (Bag) - Includes 100 Pieces

NYLON CABLE CLAMPS

PART NO.	DESCRIPTION	SIZE
SWC02	Pack of 40 pc.	.125"
SWC03	Pack of 40 pc.	.187"
SWC04	Pack of 35 pc.	.250"
SWC05	Pack of 35 pc.	.3125"
SWC06	Pack of 30 pc.	.375"
SWC08	Pack of 25 pc.	.500"
SWC110	Pack of 20 pc.	5/8"
SWC112	Pack of 15 pc.	3/4"
SWC116	Pack of 14 pc.	1"
SWCA1	Pack of 26 pc.	1/8" to 1"



SWC03



SWC08



SWC110

VINYL GROMMETS

PART NO.	DESCRIPTION	SIZE
SGV04	Pack of 18 pc.	.250"
SGV05	Pack of 15 pc.	.3125"
SGV06	Pack of 13 pc.	.375"
SGV07	Pack of 12 pc.	.437"
SGV08	Pack of 12 pc.	.500"
SGV10	Pack of 7 pc.	.625"
SGV14	Pack of 4 pc.	7/8"
SGV16	Pack of 4 pc.	1"
SGVA1	Pack of 15 pc.	Assorted Small
SGVA2	Pack of 5 pc.	Assorted Large



SGV05



SGV07



SGV08



SGV14

HEAT SHRINK TUBING - POLYOLEFIN 50% SHRINK

PART NO.	DESCRIPTION	SIZE
SHS03	Pack of 8 pc.	3/16" ID x 4"
SHS04	Pack of 7 pc.	1/4" ID x 4"
SHS06	Pack of 6 Pc.	3/8" ID x 4"
SHS08	Pack of 5 pc.	1/2" ID x 4"
SHS012	Pack of 4 pc.	3/4" ID x 4"
SHS16	Pack of 3 pc.	1" ID x 4"
SHSA1	Pack of 7 pc.	3/16", 1/4", 3/8" x 4"
SHSA2	Pack of 4 pc.	1/2", 3/4", 1" x 4"



SHS03



SHS16



SHSA1

Cable Clamps, Grommets, Heat Shrink Tubing, Cable & Duct Ties

NYLON CABLE TIES - WHITE

PART NO.	DESCRIPTION	SIZE
SWT04	Pack of 40 pc.	3- 3/4" Max, Bundle Size 3/4"
SWT04C	Pack of 100 pc.	3- 3/4" Max, Bundle Size 3/4"
SWT05	Pack of 35 pc.	5- 1/2" Max, Bundle Size 1- 1/4"
SWT05C	Pack of 100 pc.	5- 1/2" Max, Bundle Size 1- 1/4"
SWT07	Pack of 30 pc.	7" Max, Bundle Size 2- 1/8"
SWT07C	Pack of 100 pc.	7" Max, Bundle Size 2- 1/8"
SWT11	Pack of 15 pc.	11" Max, Bundle Size 3"
SWT11C	Pack of 100 pc.	11" Max, Bundle Size 3"
SWT15	Pack of 12 pc.	14" Max, Bundle Size 3- 5/8"
SWT15C	Pack of 100 pc.	14" Max, Bundle Size 3- 5/8"
SWTA1	Pack of 30 pc.	4", 7" and 11" Assorted



NYLON CABLE TIES - SCREW MOUNT

PART NO.	DESCRIPTION	SIZE
SWTM05	Pack of 13 pc.	5- 1/2" Max, Bundle Size 1- 1/4"
SWTM05C	Pack of 100 pc.	5- 1/2" Max, Bundle Size 1- 1/4"
SWTM07	Pack of 11 pc.	6- 3/4" Max, Bundle Size 2- 1/8"
SWTM07C	Pack of 100 pc.	6- 3/4" Max, Bundle Size 2- 1/8"
SWTM11	Pack of 6 pc.	11" Max, Bundle Size 3"
SWTM11C	Pack of 100 pc.	11" Max, Bundle Size 3"
SWTM14	Pack of 5 pc.	14" Max, Bundle Size 4"
SWTM14C	Pack of 100 pc.	14" Max, Bundle Size 4"



DUCT TIES

PART NO.	DESCRIPTION
S7P24	Pack of 50 pc. Duct Tie 24", Fits 6" Duct, 175 lb. Tensile
S7P36	Pack of 50 pc. Duct Tie 36", Fits 10" Duct, 175 lb. Tensile
S7P48	Pack of 50 pc. Duct Tie 48", Fits 14" Duct, 175 b. Tensile



Chemicals

MO98

ZOOM SPOUT® OILER

A Paraffin Based, Non-Gumming, High Quality Lubricating Oil

- All-Purpose Lubricating Oil
- Flexible Spout Extends and Retracts, Adjusts to Any “In-Between” Length
- Withstands High Temperatures Without Breaking Down
- Viscosity 92-99 @ 140°F
- 4 oz. Bottle
- 12 Per Case



MO44

RUST BUSTER® SOLVENT

Dissolves Rust

- Telescoping Pullout Spout
- Loosens Rust in Seconds
- No Lingering Odor
- Counter Display Case
- 4 oz. Bottle
- 12 Per Case



S8

SUPCO88 OIL ADDITIVE

Introduced in 1954 and Valued Worldwide, this Super Lubricant is a “Must Use” in Repair and Preventative Maintenance Programs

- **Compatible with ALL Refrigerant Oils**
- Dissolves Sludge Buildup on Bearing and Valve Surfaces
- Prevents Binding of High Speed Compressors
- Prevents Excess Wear in Motors and Compressors
- 8 oz. Bottle
- 24 Per Case

Application Notes

To Prevent Excess Wear on Expansion Valves and Capillaries Mix 1 Part SUPCO88 to 9 Parts Refrigeration Oil.

- Prevents Excess Wear on Expansion Valve Needles and Seats
- Penetrates the Pores of ALL Moving Metal Parts of the Expansion Valve for Constant Lubrication

Extend the Life of ALL Motors (i.e. for blowers and air conditioners)

- A Few Drops Will Help Free a “Frozen” or Sticking Motor Shaft
- Mix 9 to One for Regular Bearing Maintenance
- Decreases “Bearing to Shaft” Friction and Sludge Accumulation when Mixed 9 to 1

More Efficiency for High Speed Compressors

- Increases the Lubricating Capability of Mineral Oils in High Speed Compressors
- Used in New Units to Reduce Current Draw by Reducing Friction and Preventing Overloading
- SUPCO88 Can be Left in the System Permanently



S132

SIL GLYDE

Long Lasting, High Film Strength Lubricant for All Surfaces Including Rubber, Metal, Wood and Glass.

- Weatherproof
- -20°F to 600°F Range
- 12-1.5 oz. Tubes/Case



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HS52200 GREEN PANTABS

Economical Condensate Drain Pan Treatment

- Helps Eliminate Odors
- Prevent Overflows & Water Damage
- Non-Corrosive
- Easy to Install
- Cleans Scale & Sludge
- Non-Toxic
- Acceptable for Computer Room Use
- Suitable for Use in Humidifiers
- Ideal for Fan Coils and Window Units
- Great for Refrigerated Food Cases
- Use 2 to 4 Tablets Per Month for Every 1 Ton of Air Conditioning/Refrigeration



SO100/ST200 SLIMEOUT® CONDENSATE PAN CONDITIONING TABLETS

- Prevent Plugging of the Air Conditioning Condensate Drip Pans and Drain Lines
- Does Not Release Any Chlorine or Other Noxious Fumes
- Eliminates Odors
- Easily Solves Problems

	PART NO. SO100	PART NO. ST200
Description	Slime Out	Slime Tab
Tablets Per Jar	100	200
Tablet Size	35 grams	20 grams
Initial Application	2 tabs/3 tons	3 tabs/3 tons
Maintenance	2 per month	3 per month



HS60002 R3 AC LEAK REPAIR QUICK SERVICE KIT

- All-In-One
 - Quick Sealing Small Leak Repair
 - Lubricator
 - UV Dye to Reveal Larger Leaks Needing Repair
- Extends System Life and Quiets Noisy Compressor
- Seals Existing Leaks in Condensers, Evaporators, Hoses, Gaskets and O-Rings
- Renews O-Ring and Seal Elasticity
- Lubricates Moving Metal Parts
- Prevents Future Leaks
- Refills Available (HS60022)
- Includes 2 Preloaded Injectors

REPAIR • RESTORE • REVEAL

R3 Quantity Chart for System Injection

One injector unit contains 2 oz. (59ml) of R3

Residential AC

TONS	INJECTOR UNIT(S) (2 OZ.)
1-6	1
7-12	2
13-19	3
20-26	4

*For Automotive Use: Remove 1 oz. of oil from system and replace with 1 oz. of R3. 1/2 injector unit.



HS60022

Will R3-AC LEAK REPAIR fix my leak?

In general, R3 is designed to seal an AC system that has slow leaks and loses refrigerant over time. Maximum leak size approximately 0.50 mm. The system must be able to hold a vacuum on the low side for 15 minutes, at a minimum. If the vacuum leaks out or changes, the hole is too large to be sealed and mechanical repairs may be needed.

R3-AC Leak Repair® Extends system life and quiets a noisy compressor. It improves system lubrication up to 1200% and reduces energy consumption. It also improves the efficiency of older AC systems.

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HS17002 THAWZONE® QUICK SERVICE KIT

Frees a Frozen System

- The Original Liquid Dehydrant for Control of Moisture in Refrigeration Systems
- Compatible with All Refrigerants and Lubricants
- Aids with Oil Return in Low Temperature Systems
- Enhanced Moisture Control in Even the Most Advanced Systems
- Helps Prevent the Formation of Acid
- Refills Available (HS17022)



HS17022

HS18002 ACID NEUTRALIZER QUICK SERVICE KIT

Keeps the Acid Away

- No Solids or Solid Residuals
- Easy to Use, No Complicated Charts
- Compatible with ALL Refrigerants and Lubricants
- Neutralizes Acid in Recovery Equipment
- Safe, Will Not Harm System Components
- Refills Available (HS18022)



HS18022

HS21002 TRACE 2® QUICK SERVICE KIT

Internal Refrigerant Leak Detector

- Works Under ALL Conditions
- Not Affected by Noise or Wind
- Visible in Bright Light
- Visible Under Ultraviolet Light
- For Refrigeration, Air Conditioning and Hydraulic Systems
- Refills Available (HS21022)



HS21022

HS32098 HVAC SUPER PRO

Perfect Solution for Bonding Copper, Aluminum and Brass in Any Combination

- Bonds Dissimilar Metals
- Compatible with ALL Refrigerants
- Formulated to Exceed all Requirements for R-410A Refrigerant and POE Oils
- Vibration Tested for HVAC and Refrigeration Applications
- Maximum Pressure > 850 psi
- Bonds in 3-5 Minutes
- 1 Bottle = 200 Bonds (5/8" Tube)
- Non-toxic
- Sold in Display Case (12/case)



Scan for the HS32098 video

Scan for the HS32032 video

HS32032 INSTANT HVAC/R PATCH

A Space-Age Bonding System that Seals Holes, Cracks and Leaks

- Repairs are Made in a Minute
- Safe to Use with ALL Refrigerants
- Rated at 350 psi, 200°F
- Should Only be Used on the Low Pressure Side of Systems
- Non-toxic
- Available 12/Case



HS31032 HEAT SHIELD GEL

- Protects Heat-Sensitive Components
- Prevents Heat Damage with No Drip, No Clean up
- Non-corrosive, Non-toxic and Non-staining
- Evaporates Within 24-48 Hours
- For Use on All Surfaces, Including Wood, Insulation, Valves, Piping and Drywall
- Available 12/Case



LEAK LOCK AND LEAK LOCK GOLD WITH TEFLON

Resin Based Soft Setting Brushable Paste Pipe Joint Compound Resistant to All Refrigerants, Oils, Water and Most Chemicals, Liquids and Gases.

- Use with Pressures to 10,000 psi to Full Vacuums
- Temperature Range -200°F to 400°F (-93°C to 204°C)
- It Never Hardens and it Never Becomes Brittle
- Ideal for Joining all Metals, Plastics and Other Materials
- Will Stick to All Clean Surfaces
- Guarantees a Perfect Seal Under All Conditions
- Prevent Vibration From Loosening Nuts, Bolts, Plugs and Fittings
- Non-toxic



Leak Lock

PART NO.	SIZE	PKG
HS10001	1-1/3 oz. Tube	12/Case
HS10004	4 oz. Brush Top Plastic Jar	12/Case
HS10016	16 oz. Brush Top Plastic Jar	12/Case
HS10128	1 Gallon Can	1

Leak Lock Gold with Teflon

PART NO.	SIZE	PKG
HS11001	1-1/3 oz. Tube	12/Case
HS11004	4 oz. Brush Top Plastic Jar	12/Case
HS11016	16 oz. Brush Top Plastic Jar	12/Case
HS11128	1 Gallon Can	1

HS12001 RED EPOXY

When You Need a Sealant You Can Count On. High Performance, Heat Cured, Two Part Epoxy Kit

- Exhibits a Color Change When Cured (Turns Gold)
- May be Cured with a Hot Air Gun or Open Flame in Minutes
- -100°F to 300°F (-73°C to 149°C)
- Working Pressure in Excess of 3000 psi
- Tensile Strength: 6000 psi
- Works on Vertical Surfaces
- Pressure Tested to 3000 psi
- Simple, Quick Mixing Application
- Oil, Gas, Fuel & Solvent Resistant
- No Rush, No Wait, You Control Curing Time
- Kit Includes 2-1/2 oz. Tubes
- 12/Case



HS30004 & HS30016 SOLDERLENE

High Quality, Paste Type, Non-Acid Soldering Flux

- Industrial Strength Wetting Agents to Promote Solder Flow
- For Use with Low and Mid-Temp Soft Solders, Both Lead and Lead-Free
- Effective on All Metals Except Aluminum and Magnesium
- Brush Top Plastic Jars

PART NO.	SIZE	PKG
HS30004	4 oz.	12/Case
HS30016	16 oz.	12/Case



THAWZONE®

- Enhanced Moisture Control in Even the Most Advanced Systems
- Aids with Oil Return in Low Temperature Systems
- Compatible with ALL Refrigerants and Refrigeration Lubricants
- Helps Prevent the Formation of Acid
- No Methanol
- Environmentally Sound

PART NO.	SIZE	PKG
HS17001	1 oz.	24/Case
HS17004	4 oz.	12/Case
HS17016	16 oz.	6/Case



HS13001 THREADLOCKER

Prevents Loosening Nuts, Bolts, Brushings, Plugs and Fittings From Shock and Vibration

- Use on All Metals and Rigid Plastics
- Disassembles with Standard Hand Tools
- Excellent for Use with Dissimilar Metals and Materials
- Single Component - Easy To Use
- Helps Prevent Rust and Other Corrosion
- Use on a Wide Range of Fastener Types and Sizes
- Non-toxic
- Lower Cost than Mechanical Fastener



HSUVB001 SPIRO LITE UV BULB

- 120 Volt Fluorescent UV Light Source For Your Light Trouble



HSINJ001 HIGHSIDE® SYSTEM INJECTOR

Use For Introducing Any Liquid Into the Low Side of a Chemical Hermetic System

- Entirely Reusable
- Constructed of Rugged Aluminum for Long Life
- Designed For Use with Any Standard Manifold Gauge and Requires No Extra Valves or Fittings
- Drip Proof, No Spill Design Takes the Mess Out of the Atmosphere
- Prevents the Introduction of Air Into an Operating System
- Can be Used on Sealed Operating Systems to Avoid Shutdowns
- Use with Trace, Trace 2, Thawzone and Acid Neutralizer
- Compatible with All Refrigerants



GAS LEAK DETECTOR LOW TEMP

Leaks Appear as Large Strong Bubbles Which Cling to the Surface and are Fluorescent Under a Black Light

- Non-freezing
- Fluorescent
- Rated to -30°F (-34°C)
- Non-toxic
- Non-hazardous
- Bubble-type Gas Leak Detector
- Use on Hot and Cold Piping, Natural Gas, Most Gases, Air, All Refrigerants



PART NO.	LOW TEMP	SIZE	TYPE	PKG
HS22008	8 oz		Plastic Bottle w/Dauber	24/Case
HS22032	32 oz		Trigger Sprayer Bottle	12/Case
HS22128	1 Gal.		Plastic Bottle	6/Case
MID TEMP				
HS23008	8 oz		Plastic bottle w/Dauber	24/Case
HS23032	32 oz		Trigger Sprayer Bottle	12/Case
HS23128	1 Gal.		Plastic Bottle	6/Case

GAS LEAK DETECTOR MID TEMP

Same as Above Except:

- Rated to 27°F (-3°C)

TRACE2

A Red Penetrant Dye in a Polyolester Base that is Completely Compatible with All Refrigerants and Lubricants, Old and New.

Use to Locate the Hardest to Find Leaks Under the Toughest Conditions in Low Light or Dark Areas

- Leaks Show as Bright Red Stains
- For Refrigeration and Hydraulic Systems
- Fluorescent with Any Ultraviolet Light Source
- Non-volatile and Will Not Sludge or Deposit Gum
- Clearly Visible, Even Through Ice and Frost
- Locates Leaks Exactly, No False Positives
- Use 1/8 Ounce Per Pound of Refrigerant

WITH SUPERBRITE UV TRACER

PART NO.	TRACE2	SIZE	PKG
HS21004	4 oz Plastic Bottle		12/Case
HS21016	16 oz Plastic Bottle		6/Case
HS21128	1 Gallon Can		4/Case
TRACE			
HS20004	4 oz Plastic Bottle		12/Case
HS20016	16 oz Plastic Bottle		6/Case
HS20128	1 Gallon Can		4/Case



TRACE

A Red Penetrant Dye in a Mineral Oil Base that is Completely Harmless to Refrigeration, Air Conditioning and Hydraulic Equipment

HYDRO TRACE

Locate Hard-To-Find Leaks in Any Closed System Containing Water And/Or Antifreeze Compounds Such as Propylene Glycol and Ethylene Glycol. When Added to a System Leaks are Easily Visible as Bright Red Stains Under Normal Lighting Conditions and as a Bright Orange Glow when Exposed to an Ultraviolet Light Source

- Use 1 Ounce Per 2 Gallons of Water

Applications

- Refrigeration
- Hydronics
- Automotive
- Process Cooling
- Chemically Inert
- Will Not Harm Equipment or Seals

PART NO.	SIZE	PKG
HS26004	4 oz Plastic Bottle	12/Case
HS26016	16 oz Plastic Bottle	6/Case
HS26128	1 Gallon Can	4/Case



TRAX

Bubble-type Liquid Leak Detector Formulated to Produce Long Lasting Bubbles Under 'Job-Site' Conditions

- Clear
- No Cleanup
- Environmentally Friendly
- Evaporates Leaving No Residue
- Temp Range: 27°F to 200°F (-3°C to 93°C)
- Non-toxic
- Does Not Pit Surfaces
- Detects Leaks as Small as 1 Micron
- Oxygen Compatible
- Meets the Performance Requirements of Military Specifications: MIL 25567 Type 1 A, B & C

PART NO.	SIZE	TYPE	PKG
HS24001	1 1/3 oz	Squeeze Bottle	24/Case
HS24010	10 oz	Squeeze Bottle w/ Extendable Spout	12/Case
HS24128	1 Gal.	Bottle	6/Case



HS51032 DYE WASH

Removes Any Type of Leak Detecting Dye from Equipment and Pipe Surfaces to Prevent False Readings During Future and Follow-up Leak Detection

- Non-toxic
- Environmentally Friendly
- Non-corrosive
- Easy To Use
- 32 oz. Spray Bottle
- 12/Case



HS16501 OIL CHECKER

Easily Identify All Refrigeration, Air Conditioning and Heat Pump Lubricants in Just Seconds

- Easy To Use Two Step Process that Identifies All Types of Oils
- Test Results Within Seconds
- Each Kit Includes Two Complete Tests
- Should Be Used to Check the Type of Oil in a System Before Adding Any Additional Oil
- Compatible with Mineral, Alkybenzene and Polyolester Type Oils
- Saves Time and Money by Eliminating the Need for a Refractometer or Expensive Laboratory Tests
- Avoids the Costly Mistake of Mixing POE and Mineral Refrigeration Oils
- 12/Case






HS16001 THE ACID TEST

For Detecting the Presence and Formation of Acid in Air Conditioning and Refrigeration Systems

- Easy to Use
- No Complicated Charts
- Results in Seconds
- Very Inexpensive
- Non-toxic
- Non-hazardous
- Accurate Results
- Eliminates Guess Work
- Safe Formula
- Biodegradable
- Non-flammable
- For Use With All Refrigerants
- 4 Complete Tests in Each Kit
- 12/Case



Color Change Indicators

-  BLUE OR VIOLET.....No Acid Present
-  GREEN.....Moderately Acidic
-  YELLOWAcidic

HS18004 ACID NEUTRALIZER

The BEST Acid Treatment Available, Neutralizes Residual Acid Caused by Compressor Burnout

- Works Fast
- Circulates Quickly
- Compatible with ALL Lubricants
- Safe, Will Not Harm System Components
- No Complicated Charts
- 4 oz. Bottle
- No Solids or Solid Residuals
- Compatible with ALL Refrigerants
- Neutralizes Acid in Recovery Equipment
- Easy To Use
- Can Prevent Compressor Burnout
- 12/Case



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SUPER FLUSH AC/R INTERNAL SYSTEM CLEANER

Neutralizes and Removes Acid Caused by
Compressor Burnout

- Biodegradable
- Easy To Use
- Cleans in a Single Treatment
- Compatible with All Refrigerants and Refrigeration Oils
- Does Not Contain Halogenated Solvents
- Cleaning Agent for All A/C and Refrigeration Parts
- Environmentally Safe
- Non-flammable
- Saves Time and Money



Use

- Before a System Retrofit
- After a Compressor Burnout
- Recovery, Recycling and Reclamation Equipment
- On Automotive (Remove Immediately)

One Treatment Cleans and Removes

- Sludge
- Gum
- Debris
- Moisture
- Carbon Deposits
- Tar
- Grease
- Organic Acids
- Soot
- Mineral Acids

PART NO.	SIZE	PKG
HS55032	32 oz Plastic Bottle	12/Case
HS55128	1 Gal. Plastic Bottle	6/Case

HS58128 PINK STUFF

Heavy Duty, Foaming, Acid Based Concentrated Liquid
Coil Cleaner Foaming Action Pushes Dirt Out of Coils to
be Rinsed Away

- Non-flammable
- Easy To Use
- Non Oily
- Biodegradable
- 1 Gal. Plastic Bottle
- 4/Case

Cleans and Brightens:

- Condenser Coils
- Evaporator Coils
- Equipment Surfaces

Effective On:

- Heavy Oxidation
- Mold
- Lint
- Oily Dirt
- Algae
- Mildew
- Grease
- Oils



HS59128 GREEN STUFF

Concentrated Alkaline Based Liquid Coil Cleaner

- Non-flammable
- Fast Acting
- Non Oily
- Biodegradable
- Brightens
- 1 Gal. Plastic Bottle
- 4/Case

For Heavy Duty Cleaning and Degreasing of:

- Condenser Coils
- Permanent Filters
- Evaporator Coils
- Equipment Surfaces
- Fins
- Electronic Coils

Effective On:

- Grease
- Lint
- Tar
- Mold
- Dirt
- Mildew
- Oil
- Dust
- Algae
- Nicotine



Chemicals

HS56011 EV COIL MAX

Powerful Coil Cleaner in Powder Form to Avoid Dangerous Liquid Spills

- Environmentally Friendly
- Virtually Odorless
- Easy to Use and Clean Up
- Lowers Freight Costs
- Extra Long Shelf Life
- Its Powder Form is a Safer Alternative to Liquid Coil Cleaners
- No Acidic Residue
- Fast Acting
- Prevents Corrosion
- Less Storage Space
- 16 oz. Plastic Jar
- 12/Case



HS57014 HL COIL BRITE COIL CLEANER

Acid Based, Powder Coil Cleaner with Controlled Foaming Action

- Clean the Toughest Coils
- Mild Odor
- Indefinite Shelf Life
- Non-flammable
- Lowers Freight Costs
- Less Storage Space
- Easy To Use
- No Dangerous Liquid Spills
- Makes Old Coils Look New
- Easy Rinse for Quick Cleaning
- 14 oz. Plastic Bottle
- 12/Case



HS58520 COIL BLASTER SOLVENT

Solvent Based High Pressure Aerosol Coil Cleaner

- Pleasantly Scented
- Non-flammable
- Degreases
- Fast Drying
- Nonconductive
- Safe to Use on Equipment While Running
- Blasting Aerosol Nozzle
- No Residue
- 18 oz. Aerosol Can
- 12/Case



Use On:

- Evaporator Coils
- Electrical Equipment
- Condenser Coils
- Automotive Parts
- All HVAC/R Equipment
- Electrical Components

Effective On:

- Dirt
- Grime
- Grease
- Oil

HS59520 HD JET FOAMER COIL CLEANER

Heavy Duty Foaming Coil Cleaner in an Aerosol Can

- Convenient
- Pleasant Scent
- Environmentally Safe
- No Ozone Depleters
- 360° Spray Nozzle
- No Chlorinated Solvents
- Easy to Store
- Water Based
- Corrosion Inhibitors
- 19 oz. Aerosol Can
- 12/Case

Quickly and Easily Liquifies:

- Dirt
- Oil
- Deposits
- Grease
- Residues

Use On:

- Evaporator Coils
- Condenser Coils



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Chemicals

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HS50004 ICEMAX NICKEL SAFE ICE MACHINE CLEANER

Prevents Liquid Spills

- Inhibits Formation of Scale
- Prevents Corrosion
- Environmentally Friendly
- Will Not Separate or Chemically Change Over Time
- Indefinite Shelf Life (When Kept Sealed)
- Saves Freight Costs
- Maximum Scale Removing Power
- No Acidic Residue
- Makes 1 Gallon of Concentrated Cleaner
- 4.4 oz.
- 12/Case



FILTER FAN & VENT CLEANER

Heavy Duty Cleaner Specifically Formulated for the Heating, Ventilation, Air Conditioning and Refrigeration Industry

- Biodegradable
- Non-corrosive
- Easy To Use
- Environmentally Friendly
- Non-toxic
- Safe & Effective

PART NO.	SIZE	PKG
HS52032	32oz Plastic Spray Bottle	12/Case
HS52128	1 Gal. Plastic Refill	6/Case



Removes:

- Dust
- Grease
- Tar Deposits
- Dirt
- Oil

Use On:

- Electronic Cells
- Permanent Air Filters
- All Vents & Vent Surfaces
- Equipment Surfaces
- Most Air Cleaning Equipment
- Permanent Pre-Filters
- Fan Blades, Plastic & Metal

CDC ANTI-CLOG

Condensate Drainpan Conditioner

- EPA Registered
- Improved Chemical Formulation
- Water Activated Timed-Release
- 3 to 6 Months, 24 Hours/Day Service
- Works in Equipment of All Sizes (Available in 2 Sizes)
- Filter Material Meters Biocide for Consistent Chemical Release
- Sealed, Tamper Proof Housing Prevents Skin Contact with Biocide
- Designed Not to Clog Drain Hole
- Can be Placed Vertically or Horizontally
- pH Neutralizers Help Protect Drainpan Against Corrosion
- 40% More High Efficiency Biocide (by weight)



PART NO.	SIZE	PKG
HS52105	Units up to 5 Tons	24/Case
HS52115	Units up to 15 Tons	12/Case

HS15128 ICE BLOCK HEAT TRANSFER & ANTI-FREEZE

Propylene Glycol Based Anti-Freeze and Heat Transfer Fluid
Capable of Providing Pipe Burst Protection to Temperatures as Low as -100°F (-73°C). All Ingredients are Generally Regarded as Safe by the FDA, Making ICE BLOCK the Recommended Anti-Freeze Protection Where There is Possible Contact with Potable Water Sources

- Non-toxic
- Chemically Stable - Will Not Separate
- Maximum Heat Transfer
- Protects Pipes and Other System Components From Freeze Damage
- Safe & Easy To Use
- Lubricates As It Works
- Safe For Use Where Contact with Potable Water is Possible
- Maximum Corrosion Protection
- Will Not Leave Deposits
- 1 Gallon
- 6/Case



Applications Include:

- Refrigeration Systems
- Chilled Water Systems
- Coil Defrosting
- Ice Making Machines
- Water Based Heat Extraction System
- Snow Melting Systems
- Winterization of Any Water Based Systems
- Hydronic Heating Systems
- Solar Heating & Hot Water Systems
- Cooling Systems & Chillers
- Immersion Freezing
- Air Hydronic, Heat Pumps & Furnaces
- Process Cooling
- Ground Water Coupled Heat Pumps
- Cooling Towers
- Industrial Heat Transfer Systems
- Fire Hydrant & Sprinkler System

KA12 KLEEN-AIR ODOR ABSORBER

- Simply Open the Spout to Absorb and Remove All Kinds of Odors
- One 8 Ounce Bottle Works for 1 Year in a 9' x 12' Room
- 12/Case



HS53001 CRYSTAL GEL T-SORB

Tea Tree Oil Odor Neutralizing Crystal Gel

- Highly Effective Deodorant
- Malodor Absorber Totally Eliminates Odors on Contact
- Combines the Essential Oil of the Australian Tea Tree with Environmentally Safe Super Absorbant Polymer Crystals
- Absorbs Tough Odors in the Air, then Adds a Fresh Tea Tree Fragrance for Up to 90 Days
- Easy To Use
- 1 lb. Jar
- 12/Case



Eliminates Odor From:

- Pets
- Cleaning Compounds
- Mold & Mildew
- Cigarettes
- Paint
- Flood & Fire Damage

Australian Tea Tree Oil is used in hospitals as an antiseptic. According to studies published in American Scientific Journals, Tea Tree Oil has proven effective against MRSA, the hospital killer bug, Candida (a yeast), and Legionella (a bacteria). Tea Tree Oil is considered to be the most powerful natural antiseptic known to man, while being 100% natural, biodegradable and environmentally friendly.

Formulated with surfactants contained in the US E.P.A.'s DfE (Design for the Environment) CleanGredients database. The vapors of the Australian Tea Tree Oil are not harmful to humans or pets and the essential oil is classified as non-hazardous. All claims regarding antimicrobial and disinfectant properties are presented for information use only. Tea Tree Oil cannot be marketed as pesticide, fungicide or bactericide in the US as it has not been approved by the government for that use.

FRESHAIR AIR QUALITY KIT

- Improves Air Quality
- Improves A/C Efficiency
- Prevents Bacteria
- Prevents Unpleasant Odors From Forming



R410A18 REFRIGERANT R410A - 1.8 LBS.

- For Charging Small to Medium A/C Systems
- Perfect for Mini-Splits
- 1/4" SAE Connection
- Use R410AG Adapter & Gauge
- 12/Case



R410AG R410A ADAPTER & GAUGE

- Push Button Operation
- Reusable
- 5/16" Connection to System



R134A20 REFRIGERANT R134A - 20.3 OZ.

- For Charging Appliances
- Perfect for Small to Medium Refrigeration Systems
- Use R134AG Adapter & Gauge
- 12/Case



R134AG R134A ADAPTER & GAUGE

- Push Button Operation
- Re-Usable
- 1/4" Connection to System



UV12K UNIVERSAL UV DYE KIT

- Kit Includes UVCONN Adapter
- Adapter has Push Button Operation and Standard 1/4" Connection



UV12 UNIVERSAL DYE

- Convenient Aerosol
- Compatible with All Refrigerants
- Up to 12 Applications
- 12/Case



Dishwasher

DW157

CORNER DOOR GASKET

Corner Door Baffle Fits Lower Lefthand Corner of Dishwasher. It is Recommended this Item be Replaced Along with the Right Side Baffle (DW156).

- Black Rubber
- Fits Lower Lefthand Corner of Tub
- Can Replace GE® WD8X228



DW156

CORNER DOOR GASKET

Corner Door Baffle Fits Lower Righthand Corner of Dishwasher. It is Recommended this Item be Replaced Along with the Left Side Baffle (DW157).

- Black Rubber
- Fits Lower Righthand Corner of Tub
- Can Replace GE® WD8X227



DW3681

DISHWASHER ELEMENT

Designed to Meet or Exceed OEM Specifications.

- Used on Admiral®, Amana®, Crosley®, Jenn-Air®, Magic Chef®, Maytag® and Samsung®



DW804

DISHWASHER & DISPOSAL HOSE ADAPTER

Dishwasher to Garbage Disposal Drain Connector Kit.

- Will Fit 2 Sizes on Each End
- Used to Connect Mini-Split Drain Lines to PVC
- Connector Includes 4 Clamps



SSDW7

UNIVERSAL DRAIN HOSE

- Universal Drain Hose for 5/8", 3/4" and 1 1/8" Cutoffs



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Dishwasher

DW132 SPRAY ARM NOZZLE/CAP

- Used to Hold Spray Arm in Place
- Used on Whirlpool® and Sears® Models
- Can Replace Whirlpool® 3367910, 3367198, 3367446



DW307 DOOR SPRING

- Kit Includes Spring, Wire Retainer and Red Plastic Tip
- 2 Kits Required
- Used on Whirlpool®, Sears®, Frigidaire® and D&M®
- Can Replace Whirlpool® 674744



DW144 SUMP COVER

- Used on Most GE® Models
- Can Replace GE® WD12X5028



DW309 DOOR CABLE

Connects to Door Spring to Help Close the Door and to Prevent the Door from Falling Open. It is Recommended Both Sides be Replaced Together.

- Can Replace GE® WD7X14, WD7X13, Amana® R0905640, Jenn-Air® 793133, Maytag® 3000108



VI3460 DISHWASHER ELBOW FITTING

- Improves Seal Quality and Accessibility
- Fitting is Easy to Align and Attach
- Less Torque Required
- Can Replace Whirlpool® W10273460



LP0005A DISHWASHER PUMP ASSEMBLY

- Can Replace Samsung® DD31-00005A

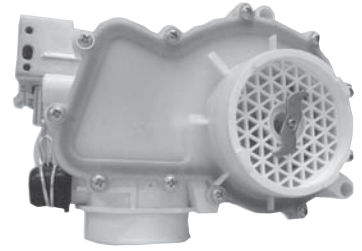


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Dishwasher

DW10013 DISHWASHER PUMP ASSEMBLY

- Ready to Install, Solenoid and Capacitor Pre-Mounted
- Hardware Kit Included
- Can Replace GE® WD26X10013, WD26X10011, WD26X10007, WD26X77



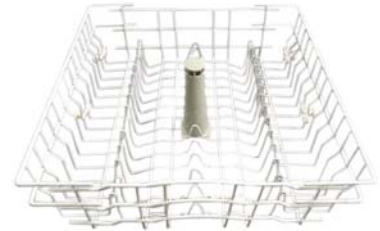
DW995 DISHWASHER PUMP REPLACEMENT

- Can Replace Whirlpool® W10348269



DW10001 DISHWASHER LOWER RACK REPLACEMENT

- 20 1/4" x 22" x 5 1/2"
- Replaces Many GE®, Hotpoint®, Kenmore®, Montgomery Ward® and RCA® Models
- Can Replace GE® WD28X10001



DW10230 DISHWASHER UPPER RACK REPLACEMENT

- 25" x 25 1/2"
- Replaces Many GE®, Hotpoint®, Kenmore®, Montgomery Ward® and RCA® Models
- Can Replace GE® WD28X10230



DW10074 LOWER RACK ROLLER

- Rack Roller or Wheel, Used on GE® Models and Brands
- Designed to Meet or Exceed OEM Specifications
- Can Also Replace Hotpoint®, Kenmore®, RCA® and others
- Can Replace GE® WD12X10074, WD12X10082, WD12X10094, WD12X10100



DW10136 LOWER RACK ROLLER

- Rack Roller or Wheel, Used on GE® Models and Brands
- Designed to Meet or Exceed OEM Specifications
- Can Also Replace Hotpoint®, Kenmore®, RCA® and Others
- Can Replace GE® WD12X10136



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Dishwasher

DW10267

STUD & ROLLER ASSEMBLY

- Rack Roller and Axle Assembly for Most GE® Brands
- Designed to Meet or Exceed OEM Specifications
- Can Replace GE® WD12X10267, WD12X272, WD12X427, WD12X441



DW271

RACK ROLLER ASSEMBLY

- Rack Roller Used on Many GE® Brands
- Includes Clip-On Axle
- Designed to Meet or Exceed OEM Specifications
- Can Replace GE® WD12X271, WD12X440, WD12X0271, WD12X426



DW10277

STUD ROLLER LOWER RACK

- Clip-On Style Dishrack Roller Axle Used on GE® Brands
- Snaps on to the Rack to Support the Wheel
- Designed to Meet or Exceed OEM Specifications
- Can Replace GE® WD12X10277, WD12X10261, WD12X10126, WD12X10075



DW10018

PISTON & NUT ASSEMBLY

- Used for Check Valve on Several GE® Manufactured Dishwashers
- Designed to Meet or Exceed OEM Specifications
- Can Replace GE® WD24X10018, WD24X220, WD24X199



DW10304

RACK SLIDE END CAP

- Attaches to Rails for Upper Rack to Prevent the Dishrack from Sliding All the Way Out
- Designed to Meet or Exceed OEM Specifications
- Can Replace WD12X10304, WD12X0344, WD12X344, WD30X0093



DW5314

ROLLER LOWER RACK

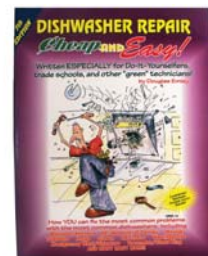
- Can Replace Bosch® 165314



EBDW

DISHWASHER REPAIR MANUAL

- Economical and User Friendly Repair Manual



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Dryer Parts

BELTS

- Replacement Dryer Belts

PART NO.	LENGTH (IN.)	WIDTH (IN.)	REPLACES
LB131	42	1/2	Maytag® 33-6104, Norge® 35-0465, Gem® 350425
LB151	41 1/2	3/8	Frigidaire® Q62149, Electrolux® 321155, Maytag® 211451
LB161	47 1/2	3/4	Gem® 96388, Whirlpool® 352967, Whirlpool® 96388
LB216	87	1/4	GE® WE12X82P, WE12X10014, WE12X42
LB230	47	3/8	Gem® 311012, Maytag® 311012
LB231	68	3/8	Gem® 310013, Maytag® 310013, Alliance® 75098
LB232	31	5/32	Maytag® 312512, Maytag® 55060
LB234	100	3/8	Maytag® 312959
LB260	88	1/2	Gem® Q63807, Electrolux® 3204314, Electrolux® 3281154, GE® WE12X88
LB276	91 5/8	3/8	Admiral® 53-2910, Whirlpool® 532910, Maytag® 31001026
LB279	92	1/2	Whirlpool® 660997, Maytag® 3301777
LB295	54	5/8	Electrolux® 131276300, 134051000, 3203018
LB788	55 1/2	1/2	Maytag® 12001788, 22002040, 22002313
LB1655	92	5/16	Samsung® 6602001655
LB029	89 1/2		GE® WE12M29



LB161



LB216

APPLIANCE

DE602 BLOWER WHEEL

- Can Replace Maytag® 303836



DE382BWR GAS VALVE COIL - 2 TERMINAL

- Used on "M" Series Valves
- 2 Terminal
- Can Replace Electrolux® Q622602, GE® WE4X693, Whirlpool® 695397



DE382AWR GAS VALVE COIL - 3 TERMINAL

- Used on "M" Series Valves
- 3 Terminal
- Can Replace Electrolux® Q622601, GE® WE4X692, Whirlpool® 695398



DE382WR GAS VALVE COIL KIT - 25M SERIES

- Designed by White Rodgers® to Replace the "M" Series Valves
- Kit Contains Valves, 8 Orifices, 2 Bushings and 2 Nuts
- Contains DE382AWR (3 Terminal) and DE382BWR (2 Terminal)
- Can Replace Electrolux® 5303931775, GE® WE04X10004, Whirlpool® 279834, GE® WE04X10020



Dryer Parts

DE692

DRUM ROLLER REAR

- Used in LA1008 Kit
- Used on Whirlpool®, Kenmore®, Roper®, KitchenAid®, GE® and More
- Can Replace Maytag® 31001096



DRUM ROLLERS

- Dryer Drum Roller and Shaft Assembly Kit Includes: Roller, Shaft and Triangle Ring Clips
- **DE2002A** Can Replace LG® 4581EL2002A
- **DE7523** Can Replace Samsung® DC97-07523B



DE2002A



DE7523

DE693

DRUM SUPPORT ROLLER

- Drum Roller with Pre-Lubricated Bronze Bearing
- For Use on Maytag® Models
- Kit Contains Roller and 2 Washers
- Low Durometer Rubber Over Hub Produces Less Noise
- Less Slippage
- Can Replace Maytag® 303373, 3-3373, 12001541



DE702

DRUM SUPPORT ROLLER

- Whirlpool® Kit Includes: Drum Roller, Tri-Ring and Pushnut
- Used with 339489 Right or 3399506 Left Shaft
- Pre-Lubricated Bronze Bushing
- Low durometer Rubber Over Hub Produces Less Noise
- Less Spillage
- Can Replace Whirlpool® 349241



DE702T

349241T DRUM ROLLER SET

- Whirlpool® Kit Includes: 2 Drum Rollers, Tri-Rings and Pushnuts
- Used with 339489 Right or 3399506 Left Shaft
- Pre-Lubricated Bronze Bushing
- Low Durometer Rubber Over Hub Produces Less Noise
- Less Slippage
- Can Replace Whirlpool® 349241T, 661562, 337089, GE® WE3X82



DE696

LA1008 ROLLER KIT

- Drum Roller with Pre-Lubricated Bronze Bearing
- For Use on Maytag® Models
- Kit Contains 2 Rollers, 2 Support Shafts and Hardware
- Low Durometer Rubber Over Hub Produces Less Noise
- Less Slippage
- Can Replace Maytag® LA1008, Norge® 53-0312N



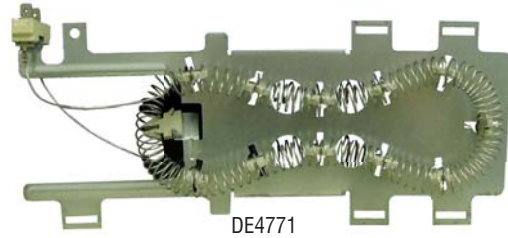
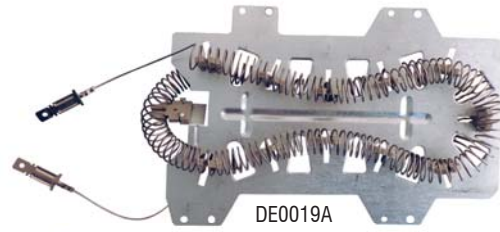
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Dryer Parts

DRYER ELEMENTS

- Direct Replacement Elements

PART NO.	WATTS	VOLTS	REPLACES
DE138	5300	240	Maytag® 303404
DE148	4750	240	Maytag® LA-1044
DE698	5200	240	Whirlpool® 4391960
DE838	5400	240	GE® WE11X10004, Whirlpool® 279838
DE0019A	5300	240	Samsung® DC47-00019A
DE1001	5400	240	LG® 6931EL1001
DE4771	5400	240	Whirlpool® 8544771
DE7747	5200	240	Whirlpool® 3387747



APPLIANCE

DRYER RESTRING KITS

- Direct Replacement Restring Kits

PART NO.	REPLACES
DE315	GE® WE11X60
DE333	GE® WE11X203
DE334	GE® WE11M21C
DE335	Electrolux® 5300622032
DE336	Electrolux® 5300622034
DE1746C	Maytag® 31001746C
DE019AC	LG® DC47-00019A



DRYER IGNITERS

- Includes Mounting Hardware Where Necessary

PART NO.	STYLE	REPLACES
SDE350	Round	GEM® DE350, ADC® 128910 and More
SDE358	Round	Gem® DE359, GE® WE4X739 and More
SDE359	Round	Gem® DE359, DE363, Amana® 40069801P and More
SDE365	Round	LG® 5318EL3W1A
SDE364	Flat	Whirlpool® 4391996, Glo Bar® 304970 and More
SDE366	Flat	Maytag® 31001556 and More



FLAME SENSORS

- Exact Replacement Dryer Flame Sensor for Many OEM Brands
- Senses Igniter for Heat and Opens Gas Valve for Burner
- Safety Device in Flame Out Condition

PART NO.	REPLACES
DE353	Whirlpool® 338906
DE355	GE® WE4X448



Dryer Parts

LINT SCREENS

- Captures Lint as it Exits the Dryer Vent
- Made with Fine Mesh Metal Screen

PART NO.	LENGTH (IN.)	REPLACES
DE520	12 5/8	Electrolux® 5300137504, GE® WE18X26, Westinghouse® Q115071
DE522	18 3/4	Whirlpool® 339392, 690634, 337133 and More
DE524	20 3/4	Whirlpool® 348855, 341256, 689469
DE525	20 3/4	Whirlpool® 349639
DE526	22 1/4	Whirlpool® 8557882
DE534	12 1/4	Maytag® 33001808
DE0998	11 1/2	Whirlpool® W10120998
DE1002E	12 1/2	LG® 5231EL1002E
DE964	9 1/2	Whirlpool® 8531964 and More



DE522



DE526

SWITCHES

PART NO.	DESCRIPTION	AMPERAGE	VOLTS	MOUNT	REPLACES
ES16802	Micro Switch	15	125-250	Bolt	Gem® 16802, 168-2
ES15253	Micro Switch	10	125	Snap-In	Micro® V3L1
		10	250		
ES15252	Micro Switch	1/2	125	Snap-In	Micro® V3L107D8
		1/4	250		
ES15805	Toggle Switch	20	125	Snap-In	Gem® 15805, 158-5
		10	250		
ES15806	Toggle Switch	20	125	Pal-Nut	Gem® 15806, 158-6
		10	250		
ES15903	Panel Rocker Switch	7.5	125	Snap-In	Gem® 15903, 159-3
		10	250		
ES15905	Panel Rocker Switch	7.5	125	Snap-In	Gem® 15905-159-5
		10	250		
ES15907	Panel Rocker Switch	15	125-250	Snap-In	Gem® 15907, 159-7
ES16806	Door Switch	10	125	Snap-In	Gem® 16806
DE6105	Door Switch	11	120-240	Snap-In	Whirlpool® 3406105
DE6107	Door Switch	11	120-240	Snap-In	Whirlpool® 3406107



ES16802



ES15805

RJR601 LINT EATER® 3 FT. DRYER VENT CLEANING KIT

- Effective on All Types of Dryer Vents
- Includes (2) 18" Extension Rods, a 4" Self Feeding Auger Brush and a 2 1/2" Lint Trap Brush



R3203612 LINT EATER® 12 FT. VENT CLEANER EXTENSION KIT

- Add Length to Your Lint Eater® Rotary Dryer Vent Cleaning System
- For Vents Running Longer Than 12 ft.
- Includes (4) 36" Extension Rods and Storage Tube



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Dryer Parts

RLE202 LINT EATER® 12 FT. DRYER VENT CLEANING KIT

- Effective On All Types of Dryer Vents
- (4) 36" Extension Rods
- 4" Self Feeding Auger Brush
- Blockage Removal Tool
- 2 1/2" Lint Trap Brush
- Vacuum Adapter
- Dryer Adapter
- Instruction Manual



"SET" SERIES THERMOSTATS

- The "SET" Series Offers Proven Reliability in a Versatile, Cost-Effective Design
- Can Handle Loads Up to 25 Amps at 240 VAC

PART NO.	DESCRIPTION	OPEN (°F)	CLOSE (°F)	REPLACES
SET149	Direct Replacement Thermostat	290	250	279054
SET176	Thermostat	248	168	Maytag® 53-0771, 702548 Whirlpool® 3390291, 696397
SET196	Thermostat L145-25 Double Tab	250	Single Shot	
SET198	Thermostat	250	190	Whirlpool® 3390291
SET404	High Limit Thermostat	240	200	Maytag® 53-1096
SET401	Thermal Fuse	196	Single Shot	GE® WE4X857, Whirlpool® 3392519, 33886651
SET402	Thermal Fuse	196	Single Shot	Whirlpool® 3390719, 690198
SET403	Thermal Fuse	300	Single Shot	Maytag® 53-1182
SET407	Thermal Cutout	183	Single Shot	Maytag® 33001762
SET409	Thermal Cutout	243	Single Shot	Maytag® 307473
SET410	Thermal Cutout	196	Single Shot	Whirlpool® 3399849
SET184	Thermal Cutoff Kit	352	Single Shot	Whirlpool® 279769
SET194	Thermal Cutoff Kit	325	Single Shot	Whirlpool® 279816
SET195	Thermostat Kit	120	110	
SET197	Thermostat Kit	250	Single Shot	Whirlpool® 397767



SET149



SET195

"L" SERIES THERMOSTATS

- Available with Automatic Reset SPST Switch Configurations

PART NO.	DESCRIPTION	OPEN (°F)	CLOSE (°F)
L14625W	Multi-Temp Thermostat	146	121
L15015W	Multi-Temp Thermostat	150	135
L15525W	SPST Limit Thermostat w/ Heater	155	130



L15525W

APPLIANCE

Dryer Parts

DE902

DOOR CATCH/STRIKE PACKAGE

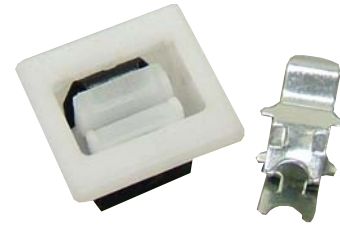
- Used to Keep Dryer Door Closed on Several Brands and Models
- Plastic Strike/Plastic Catch
- Can Replace Whirlpool® 279570, 690082



DE902M

DOOR CATCH METAL STRIKE PACKAGE

- Used to Keep Dryer Door Closed on Several Brands and Models
- Metal Strike/Plastic Catch
- Can Replace Whirlpool® 279570



DE766

LOWER FRONT SEAL

- Felt Drum Seal Used on Frigidaire®, Kenmore®, Gibson®, Kelvinator® and Tappan® Models
- Does Not Include High Temperature Adhesive
- Can Replace Electrolux® 5303281049, Frigidaire® 5303212849



DE411

IDLER ASSEMBLY

- Keeps Tension on the Dryer Drum Belt and Aids in Rotating the Drum
- Heavy Duty Style
- Can Be Used on Whirlpool®, Kenmore®, Roper®, Kitchen Aide® and GE® Models
- Can Replace Whirlpool® 691366, GE® WE12X95



DE726

DRUM BEARING

- Helps Keep Dryer Running as Smoothly as Possible with as Little Noise as Possible
- Can Replace GE® WE25X205, WE3X375, WE3X37, WE3X72



SM1008 & SM279827

DRYER MOTOR

- SM1008 Can Replace LG® 4681EL1008A
- SM279827 Can Replace Whirlpool® 279827



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Dryer Parts

DE340 BEARING IDLER ASSEMBLY

- Can Replace Whirlpool® 6-3700340



DE3001A BEARING IDLER ASSEMBLY

- Can Replace LG® 4560EL3001A



DE405 IDLER ROLLER FOR BELT

- Replacement Idler Pulley for Maytag® Large Capacity and Commercial Dryers
- Pre-Lubricated Bronze Brushing
- Can Replace Maytag® 303705
- 3/4" Diameter



DE1067 BEARING GLIDE

- Attaches to Outer-Most Sides of Bearing. Manufacturer Recommends Replacing Both Glides Together. Sold Individually.
- Can Replace GE® WE1M1067



DE504 BEARING GLIDE

- Attaches to Outer-Most Sides of Bearing. Manufacturer Recommends Replacing Both Glides Together. Sold Individually.
- Can Replace GE® WE1M504



FCS003 CURRENT SENSING RELAY

This Unit Senses as Soon as your Dryer Draws more than 1 amp of Current. It Will Automatically Turn on the Booster Fan, Eliminating Additional Sensors, Switching or Speed Controls.



TH9973 & TH7274 THERMISTORS

- TH9973 Can Replace Whirlpool® 279973
- TH7274 Can Replace Whirlpool® 8577274



TH2001B THERMISTOR

- Dryer Thermistor with Temperature Sensor
- Designed to Meet or Exceed OEM Specifications
 - Can Replace LG® 6323EL2001B



Dryer Parts

DE724

SHAFT & BEARING PACKAGE

- Includes Plate Bearing, Tub Bushing and Mounting Hardware
- Can Replace Electrolux® 5303281153, 5303281136 and GE® WE13X10011



DE901

230131 DRYER DOOR CABLE

- Used for Dryers with a “Drop-Down” Door to Help Support the Door
- 25 Pack
- Can Replace Whirlpool® 230131, 230131D



DE905

342601 METAL PANEL CLIP (2 PC.)

- Used to Keep Dryer Panel Attached, on Several Brands and Models
- 2 Pack
- Can Replace Whirlpool® 342601, GE® WE01X10122



DRUM GLIDES

PART NO.	DESCRIPTION	REPLACES
DE729	Drum Glide	GE® WE13X68K
DE775	Drum Glide (4 pc.)	GE® WE1M481, WE1M316, WE1X333
DE790	Drum Glides/ Top Front Seal	Frigidaire® 5303937139, Electrolux® 5303937139
DE747	Drum Glide Package	Maytag® 306508

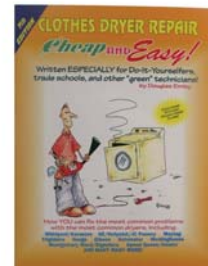


DE729

EBHD

DRYER REPAIR MANUAL

- Economical and User Friendly Dryer Repair Manual



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Range Parts

SWITCHES

PART NO.	DESCRIPTION	AMPS	VOLTS	MOUNT	REPLACES
ES15100	Switch	5 2.5	125 250	Snap-In	Gem® 18806, 188-6
ES15102	Switch	3 1	125 250	Threaded	Gem® 15102, 151-2
ES15105	Switch	3 1	125 250	Threaded	Gem® 15105, 151-5
ES15106	Switch	3 1	125 250	Threaded	Gem® 15106, 151-6
ES15400	Switch	3 1	125 250	Snap-In	Gem® 15400, 154
ES15805	Switch	20 10	125 250	Snap-In	Gem® 15805, 158-5
ES15806	Switch	20 10	125 250	Pal-Nut	Gem® 15806, 158-6
ES15903	Switch	7.5 10	125 250	Snap-In	Gem® 15903, 159-3
ES15905	Switch	7.5 10	125 250	Snap-In	Gem® 15905, 159-5
ES18200	Switch	10 5	125 250	Snap-In	Gem® 18200, 182
ES18600	Switch	5 2.5	125 250	Snap-In	Gem® 18814, 188-14
ES16100	Univ. Repl. Switch	15	125/250	Snap-In	Sears® 793085, GE® WD21X557, Maytag® 3135-0006 and More
ES16200	Univ. Repl. Switch	15	125/250	Snap-In	Gem® 16200, 162
ES16300	Univ. Repl. Switch	15	125/250	Snap-In	Gem® 16300, 163
ES16301	Univ. Repl. Switch	15	125/250	Snap-In	Gem® 16301, 163-1
ES16600	Univ. Repl. Switch	15	125/250	Bolt	GE® 303919, Gem® 16600, 166
ES18818	Compactor/Interlock Switch	11 5.5	125 250	Snap-In	Gem® 18806, 188-6
ES16802	Micro Switch	15	125/250	Bolt	Gem® 16802, 168-2
ES15201	Pilot Light	1-3 Watts	125	Snap-In	Whirlpool® 4157976, 4157870, Gem® 15201, 152-1
ES15202	Pilot Light	1-3 Watts	250	Snap-In	Maytag® 00886400088777, Gem® 15202, 152-2
ES15205	Pilot Light	1-3 Watts	125	Snap-In	GE® WB2X1608, Gem® 15205, 152-5
ES15501	Pilot Light	1-3 Watts	125	Snap-In	Gem® 15501, 155-1
ES15601	Pilot Light	1-3 Watts	125	Snap-In	Gem® 15601, 156-1



ES15202



ES15903



ES15100

ES9400/ES9404 INFINITE SWITCHES

- ES9400 is a Large Surface Unit Switch for 8" Burner.
Can Replace Whirlpool® 314900
- ES9404 is a Small Surface Unit Switch for 6" Burner.
Can Replace Whirlpool® 3149404



ES9404

APPLIANCE

Range Parts



MOTOR VENTILATION

- Replacement Motors



SM550



SM555

PART NO.	DESCRIPTION	ROTATION (SHAFT END)	STACK (IN.)	LEADS	RPM	SPEED	REPLACES
SM550	Vent Hood Motor	CCW	1/2	120V Plug	3000	1	Gem® EM550, EM750, Nutone® 65878000 and More
SM551	2 Speed Hood Motor	CW	1/4	Molex 3 Pin	3000/1640	2	Gem® EM551, EM751, Nutone® 52637000 and More
SM552	Vent Fan Motor	CCW	3/4	120V Plug	3000	1	Gem® EM552, Nutone® 63675000, C63675 and More
SM553	Vent/Heater Fan Motor	CCW	3/7	Eyelet	3000	1	Gem® EM553, Nutone® 66582000, C66582 and More
SM554	2 Speed Hood Motor	CCW	7/8	Molex 3 Pin	3000/1500	2	Gem® EM554, Nutone® 279870001, C27987 and More
SM555	Vent Hood Motor	CCW	5/8	120V Plug	3000	1	Gem® EM555, K5895, Nutone® 68627000 and More
SM556	Vent Fan Motor	CCW	5/8	120V Plug	3000	1	Gem® EM556, Nutone® 34484000, C34484
SM681	Utility Motor	CW/CCW	5/8	Eyelet	3000/1550	2	Robertshaw® 14021
SM140-40A	Blower Fan Assembly	CCW	3/4	120V Plug	2400	1	Nutone® K5894, K5895

WIRE



PART NO.	DESCRIPTION	MAX AMPS (@104°F/40°C)	MAX WATTAGE (@104°F/40°C)	TEMP. RATING (°F/°C)	LENGTH (FT.)	GAUGE (AWG)	PACKAGE
RP0512G	200C Triplex	45	10KW/5KW	392/200	5	12	Bag
RP0512NG	450C Single Cond	56	13KW/6.5KW	842/450	5	12	Bag
RP0514G	200C Triplex	36	8KW/4KW	392/200	5	14	Bag
RP0514NG	450C Single Cond	45	10KW/5KW	842/450	5	14	Bag
T301025	Nickel Hinge Wire	73	17KW/8.5KW	482/250	25	10	Bag
RP2512G	200C Triplex	45	10KW/5KW	392/200	25	12	Box
RP2512NG	450C Single Cond	56	13KW/6.5KW	842/450	25	12	Bag
RP2514G	200C Triplex	36	8KW/4KW	392/200	25	14	Box
RP2514NG	450C Single Cond	45	10KW/5KW	842/450	25	14	Box
T301225	Nickel Hinge Wire	54	12KW/6KW	482/250	25	12	Bag
RP5012G	200C Triplex	45	10KW/5KW	392/200	50	12	Box
RP5014G	200C Triplex	36	8KW/4KW	392/200	50	14	Box
RP0514G	200C Triplex	36	8KW/4KW	392/200	5	14	Bag
T301625	Nickel Hinge Wire	26	6KW/3KW	482/250	25	16	Bag
T301425	Nickel Hinge Wire	39	9KW/4.5KW	482/250	25	14	Bag
T301825	Nickel Hinge Wire	20	4KW/2KW	482/250	25	18	Bag
RP2512G	200C Triplex	45	10KW/5KW	392/200	25	12	Box
RP2516H	HV Silicone Cable	31	7KW/3.5KW	482/250	25	16	Bag
RP5014GB	200C Triplex	36	8KW/4KW	392/200	50	14	Box



RP0514G



T301425



RP2514NG

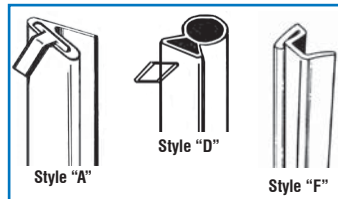
DOOR GASKETS

- High Temperature Silicon Rubber
- FDA Approved Material
- Exact OEM Replacement
- Stretch Gasket



DG1416

PART NO.	DESCRIPTION	LENGTH (IN.)	STYLE	REPLACES
DG1416	Stretch Gasket	13 13/16	A	GE® WB2X7314 Whirlpool® 4364084
DG2224	Stretch Gasket	21 13/16	A	Whirlpool® 4364083
DG5103	Extruded Gasket	44	F	GE® WB2X5103
DG42	Extruded w/ Clips	54	D	GE® WB32K3



DG42

APPLIANCE

Range Parts

EMERSON® SURFACE ELEMENTS

PART NO.	DESCRIPTION
CH30M1	Replaces WB30M1
CH30M2	Replaces WB30M2
CH30T10074	Replaces WB30T10074
CH30T10078	Replaces WB30T10078
CH30X341	Replaces WB30X341
CH30X342	Replaces WB30X342
CH30X354	Replaces WB30X354
CH30X356	Replaces WB30X356
MP15MA	4D6 1500W Surface Element
MP15YA	4T6 1500W Surface Element
MP21YA	5T8 2100W Surface Element
MP26YA	5T8 2600W Surface Element
MP21MA	5D8 2100W Surface Element
MP26MA	5D8 2600W Surface Element
SP12MA	3D6 1250W Surface Element
SP21MA	4D8 2100 Surface Element



CH30M1



MP15MA

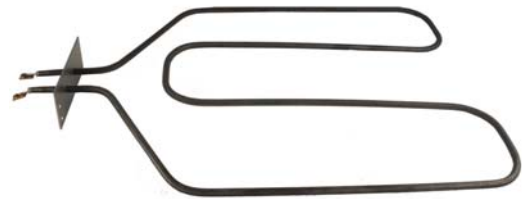
EMERSON® BAKE & BROIL

PART NO.	REPLACES
CH1011	RP743
CH2851	RP799
CH2858	RP777
CH2859	RP789
CH2860	RP841
CH2864	RP716
CH2866	RP2866
CH2867	RP2867
CH2891	RP774
CH4107	74004107
CH44K10002	WB44K10002
CH44K10005	WB44K10005
CH44K5009	WB44K5009
CH44K5012	WB44K5012
CH44T10009	WB44T10009
CH44T10010	WB44T10010
CH44T10011	WB44T10011
CH44T10014	WB44K10014
CH44T10018	WB44K10018
CH44X10009	WB44X10009
CH44X10016	WB44X10016
CH44X126	RP44X126
CH44X134	RP44X134
CH44X185	RP44X173
CH44X200	RP44X200
CH44X5019	RP980
CH44X5043	RP44X5043
CH44X5074	RP44X5074
CH44X5082	RP44X5082
CH44X5083	RP44X5083
CH44X5099	RP44X5099
CH4825	RP828
CH4836	RP790
CH4854	RP838
CH4874	RP829
CH4879	RP837
CH4896	RP832
CH5002	318255002
CH5104	316075104
CH528	RP528
CH550	RP550

PART NO.	REPLACES
CH556	RP556
CH5818	RP842
CH5828	RP795
CH5829	RP856
CH5830	RP798
CH5837	RP796
CH584	RP584
CH5841	RP5841
CH5853	RP5853
CH5855	RP5855
CH5862	RP5862/RP7019
CH587	RP587
CH613	RP613
CH620	RP620
CH624	RP624
CH625	RP625
CH628	RP628
CH629	RP629
CH641	RP641
CH643	RP643
CH653	RP653
CH664	RP664
CH671	RP671
CH672	RP672
CH673	RP673
CH679	RP679
CH687	RP687/RP778
CH691	RP691
CH700	RP700
CH7340	9757340
CH775	RP775
CH776	RP776
CH779	RP779
CH781	RP781
CH809	RP809
CH825	RP825
CH8541	9758541
CH978	RP978
CH979	RP979
CH987	RP987



CH1011



CH44X5074



CH625

APPLIANCE

Range Parts

SGR4001

DIRECT REPLACEMENT IGNITER

- Can be Used on All Viking® Glow Bar Ignition Systems Both Bake and Broil
- Can Replace Viking® PB04001



SGR429

DIRECT REPLACEMENT IGNITER

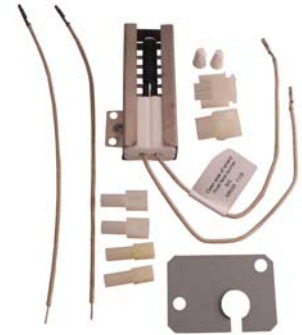
- Meets or Exceeds OEM Specifications
- Used with 2.8 to 3.0 Amp Rated Gas Safety Valves
- High Temperature Stainless Steel Shield & MGT Wire Leads
- UL® and CSA® Approved
- Can Replace Market Forge® 86350, Southbend® A93-00007 and More



SGR414

DIRECT REPLACEMENT IGNITER

- Can Replace Hundreds of OEM Part Numbers
- Hardware Included
- Can Replace SGR407-SGR412



SGR SERIES ROUND IGNITERS

PART NO.	LENGTH (IN.)	REPLACES
SGR403	5 1/2	Gem® GR403, GE® WB2X9154, Electrolux® 5304401265



SGR SERIES FLAT IGNITERS

PART NO.	LENGTH (IN.)	REPLACES
SGR407	7 1/2	Gem® GR407, GE® WB02X4827, Electrolux® 08067970, Whirlpool® 4163781
SGR409	5 1/2	Gem® GR409, Electrolux® 3016211, GE® WB02X4221, Whirlpool® 9751123
SGR410	6 1/4	Gem® GR410, Electrolux® 5303200508, GE® WB2X4385, Whirlpool® 4371216
SGR412	4 1/2	Gem® GR412, Electrolux® 5303935066, Maytag® 98005652, Whirlpool® 814269, GE® WB02X4528



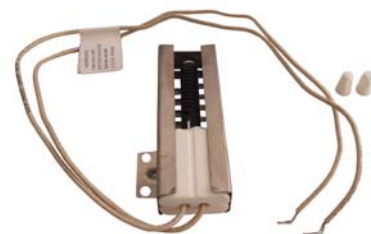
SGR407



SGR409



SGR410



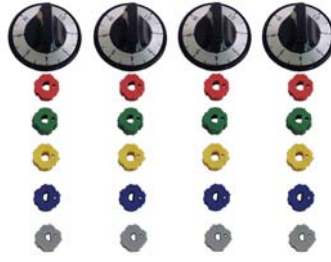
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Range Parts

KNOBBS

PART NO.	DESCRIPTION	REPLACES
RK100	Range Knob Kit	Universal
RK101	Range Knob Kit	Universal
RK103	Electric Stove Knob Kit	Universal
RK458	Control Knob	Whirlpool® 307458
RK200	Gas Burner Knob Kit	Universal
RK201	Gas Burner Knob Kit	Universal
RK203	Gas Stove Knob Kit	Universal
RK362	Knob Kit	Whirlpool® 814362
RK699	3 Knob Set	GE® WB3X5699



RK100



RK200

RECEPTACLES

PART NO.	DESCRIPTION	INCLUDES	REPLACES
RRUPR	Receptacle	2 Brackets, Insulated Wire, Wire Nuts	GE® WB17X210, Whirlpool® 330031, Electrolux® 5303935058
RRUPS	Receptacle	2 Brackets, Insulated Wire, Wire Nuts	Universal
RR105	R300 Receptacle Kit	Horizontal Mounting Clip, Block, 2 Terminals	Electrolux® 5300219245, GE® WB17X210
RR109	Receptacle Kit	Vertical Mounting Clip, Block, Hardware	Electrolux® 5303912666
RR110	Receptacle Kit	Horizontal Mounting Clip, Block, Hardware	Electrolux® 5301167733, GE® WB17X210, Whirlpool® 330031
RR117	Receptacle Kit	Horizontal and Vertical Mounting Clip, Block and Hardware	Electrolux® 5303935058, GE® WB17X210, Whirlpool® 330031, Maytag® 89336
RR122	Receptacle Kit	Horizontal and Vertical Mounting Clip, Block, 2 Wire Leads, Wire Nuts	GE® WB17X5051
RR123	Receptacle Kit	Horizontal and Vertical Mounting Clips, Block, 2 Wire Leads, Wire Nuts	Maytag® 12001676
RR124	Receptacle Kit	2 Brackets, 2 Wire Leads, Wire Nuts	Whirlpool® 33031
RR137L	Receptacle		GE® WB17M137LL
RR058L	Receptacle		Frigidaire® 5303935058L and More
RR500	Receptacle	28" Lead Wires, Single-Screw Mounting	Frigidaire® 203363-903 and More
RR031L	Receptacle Kit		Maytag® 330031L and More
RR146	Receptacle	24" Lead Wires, Spade-Style Terminals	GE® WB17M146
RR261	Receptacle	24" Lead Wires, Spade-Style Terminals	GE® WB2M2261 and More



RR117



RR122



RR109



RR124

APPLIANCE

Range Parts

OR102 OVEN RACK

- Manufactured from Heavy Duty Steel Rods with Welded Frame Construction
- Heat Tested to 1200°F to Insure the Highest Quality Plating
- Replaces Regular, Self-Cleaning Gas or Electric
- Replacement Part Numbers by Brand or Measurements for Universal Applications
- Can Replace GE® WB48X5012, WB48X5026, WB48X5031



GA28 APPLIANCE OUTLET

- Range Accessory
- Three Wire Snap-In Plastic Outlet
- 15 Amp @ 115 Volts



HOT MICRO SURGE PROTECTOR

- Helps Prevent Blown Fuses
- Short Cycle Protection
- Prevents False Starting Attempts
- Easy Installation
- Automatically Restarts
- LED to Indicate Proper Operation



EBOC OVEN AND COOKTOP REPAIR MANUAL

- Economical and User Friendly Range Repair Manual



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Refrigerator

SC1002 UNIVERSAL FREEZER CONTROL

- Keeps Equipment Up and Running Until Permanent Replacement is Installed
- For Use on Freezers Only
- Three Mounting Options: Suction Cup, Velcro or Screw Mount
- Safe and Easy Installation
- Can Be Used as a Permanent Control
- Temperature Range is -6°F to 39°F



PART NO.	RANGE	TEMPERATURE RANGE (°F)			DIFF °F	APPLICATION
		COLD	MEDIUM	WARM		
SC1002	28 to 45	28 to 34	33 to 39	39 to 45	6	Refrigerator

DIRECT REPLACEMENT COLD CONTROLS

PART NO.	NOMINAL IN (°F)	NOMINAL OUT (°F)	CAP (IN.)	REPLACES
GC116	37.5	-10.5	39	GE® WR9X208
GC177	32	22	34.5	GE® WR9X411
GC192	38	23	AIR	GE® WR9X499



GC116

GC500 SERIES UNIVERSAL COLD CONTROLS

- Universal Mounting Hardware Insures Controls Will Replace Wide Range of Controls
- Ideally Suited for “Frost-Free” Refrigerators and Conventional Units

PART NO.	NORMAL °F		CALIBRATION °F		DIFF °F	CAPILLARY LENGTH (IN.)
	OFF	ON	WARM OFF	COLD ON		
GC503	9	26	42.5	-16	17	42
GC505	31	36	49	16	5	24
GC506	18	31	48.5	-7	13	24



GC505

Thermostats Rated 125VAC, 1/2 HP, 20 Amps F.L. - 80 Amps L.R., SPST Switch Action.

GC600 SERIES UNIVERSAL COLD CONTROLS

- Universal Mounting Hardware Insures Controls Will Replace Wide Range of Controls
- Designed for Freezers, Offering the Most Popular Temperature and Capillary Lengths

PART NO.	NORMAL °F		CALIBRATION °F		DIFF °F	CAPILLARY LENGTH (IN.)
	OFF	ON	WARM OFF	COLD ON		
GC601	-5	4	22	-29	9	78
GC602	-13	0	12	-30	13	78
GC604	-12	6	20	-34	18	36
GC607	-8	1	13	-23	9	31



GC607

GC707 UNIVERSAL COLD CONTROL

- Hardware Accessory Pack Covers Most Major Brands for a Wide Range of Applications

PART NO.	RANGE °F		DIFF °F	CAPILLARY LENGTH (IN.)	STYLE	ELECTRICAL RATINGS		120/208/240 VAC R.A
	COLD OFF	WARM ON				SWITCH	F.I.A.L.	
GC707	52	93	6	36	Straight	SPDT	25A	80A



GC707

APPLICATIONS

Refrigerator

CS10398 CRISPER TRAY

- New Design is Stronger than the Old Shelf
- Can Replace GE® WR32X10398, WR32X1094, WR32X1107, WR32X1122



DIRECT REPLACEMENT DEFROST HEATERS

- Heavy Duty Vycor® Glass Construction
- Protective Oxide-Coated Element Wire for Longer Lasting Heater Life
- High Temperature Molded Silicone End Caps
- Manufactured to Proper Lengths, Mountings and Electrical OEM Specifications

PART NO.	VOLTS	WATTS	LENGTH (GLASS) (IN.)	LENGTH OVERALL (IN.)	REPLACES
SH303LB	115	615	8 1/4	9 3/4	GE® WR49X249, WR49X391
SH307	115	425	22 1/8	23 7/16	GE® WR51X194, WR51X411
SH308	115	450	13 7/16	15 1/4	GE® WR51X413
SH309	115	600	8 1/4	9 1/2	GE® WR51X442
SH310	115	772	11 3/8	12 13/16	GE® WR51X443
SH319	115	400	17 1/8	17 7/8	Admiral® 60106-19
SH320	115	450	19 5/8	20 7/16	Admiral® 60106-20
SH323	115	725	10 1/2	12	GE® WR51X10055
SH324	115	575	8	9 1/2	GE® WR51X10053
SH325	115	575	8	9 1/2	GE® WR5X10101



SH307



SH323

SH400 Series

PART NO.	VOLTS	WATTS	DIMENSIONS (IN.)	REPLACES
SH413	120	650	23 5/8 X 6 1/2	Whirlpool® 978331
SH414	120	650	26 5/8 x 6 1/4	Whirlpool® 978945
SH419	115	425	20 1/4 x 3 1/8	Electrolux® 5303001362
SH442	120	775	18 5/8 x 9 5/16	Whirlpool® 851363



SH419

UNIVERSAL DEFROST HEATERS

- Heavy Duty Vycor® Glass Construction
- Protective Oxide-Coated Element Wire for Longer Lasting Heater Life
- High Temperature Molded Silicone End Caps
- Manufactured to Proper Lengths, Mountings and Electrical OEM Specifications



SH261



SH271

PART NO.	VOLTS	WATTS	LENGTH (GLASS) (IN.)	LENGTH OVERALL (IN.)
SH261	115	550	21 3/16	21 15/16
SH264	115	550	8 1/2	9 1/4
SH267	115	500	22 13/16	23 13/16
SH271	115	600	8	8 3/4

APPLIANCE

Refrigerator



ENERGY SAVING EXACT REPLACEMENT DEFROST TIMERS

- Exact OEM Features and Specifications
- Energy Saving Plastic Construction
- Available in 120 or 220 Volts
- Available in Bulk (200) or 12 Pack
- Domestic Refrigerators & Freezers



SPA1401AD

PART NO.	CYCLE TIME HOURS	DEFROST TIME MINUTES	GP SERIES	GEM® NUMBER	OEM REPLACES
SPA1401AD	6	21	GP1	CC922	Admiral® 66128-1, Electrolux® 215846604
SPB1401F	8	20	GP4	CC925	Frigidaire® 5300628518, Maytag® 68233-2
SPD1401AM	8	32	GP19	CC926	Amana® D70041-4, Maytag® R0131577 Frigidaire® 5303321915
SPG1401GE	6	25	GP2	CC923	GE® WR9X330, Maytag® R0168026
SPK1401GE	10	30	GP18	CC907	GE® WR9X387, Maytag® R0168027, Amana® D7004119, D7790403
SPM6823-3	10	23	GP9	CC924	Maytag® 68233-3, Amana® D7004112, GE® WR9X388
K1401GEO	10	30	GP18	CC907	GE® WR9X387, Maytag® R0168027, Amana® D7004119, D7790403

FLYING LEAD TIMERS

- Energy Saving Plastic Construction
- Direct Whirlpool® Replacement
- Hardware Kit Included
- Domestic Refrigerators & Freezers



PART NO.	CYCLE TIME	DEFROST TIME	GP SERIES	GEM® NO.	MALLORY® NO.	PARAGON® NO.	UNI-LINE® NO.	REPLACES OEM NO.
SPA1403FL	8	21	GP4 GP6 GP11 GP21	CC904 CC920 CC309 CC320	34885	E769-00 B931-00	3002-904 UX-2001-00	Whirlpool® 482493 Electrolux® 5303917634 Maytag® 68233-2 Haier® 60938312 Sub-Zero® 3081180

CLASSIC STYLE DEFROST TIMERS (METAL TOP)

- Exact OEM Features and Specifications
- Metal Construction
- Available in 120 or 220 Volts
- Available in Bulk (75) or 12 Pack
- Hardware Kit Included
- Domestic Refrigerators & Freezers

PART NO.	CYCLE TIME	DEFROST TIME	GP SERIES	GEM® NO.	MALLORY® NO.	PARAGON® NO.	PARAGON® NO.	UNI-LINE® NO.	REPLACES OEM NO.
SP931WP	8	21	GP11 GP20	CC904 CC920 CC928	34885	E769-00	E931-00	3002-904 UX-2001-00	Whirlpool® 876369, 482493 Sub-Zero® 3081180
SPG1111GE	6	25	GP2	CC900	34887	B769-00	D1111-00	3002-902	GE® WR9X330
SPF1111F	8	20	GP4	CC902	34890	F769-00	A1111-00	3002-906	Frigidaire® 5300628518
SPJ1111AM	8	32	GP19	CC905 CC925	34982	D769-00	K1111-00	3002-905	Amana® D700414, Frigidaire® 5303321915 GE® WR9X396
SPL1111W	6	25	GP3	CC903	34891	G769-00	B1111-00	3002-903	Westinghouse® 5300900072
SPN1111AD	6	21	GP1	CC901 CC922	34886	A769-00	E1111-00	3002-901	Whirlpool® 4391974 Admiral® 66128-1



SP931WP



SPF1111F

APPLICATION



EXACT ENERGY SAVING DEFROST TIMERS

- Exact OEM Features and Specifications
- Energy Saving Plastic Construction
- Individually Boxed
- Domestic Refrigerators & Freezers

PART NO.	INTERNAL CYCLE TIME (HRS)	DEFROST TIME (MIN.)	VOLTS	REPLACES OEM NO.
SC950	Resistor 6	25	120	GE® WR9X481
SC952	Capacitor 16	35	120	GE® WR9X489, WR9X10049 Electrolux® 5304406555
SC953	Resistor 6	25	120	GE® WR9X548
SC954	Resistor 10	30	120	GE® WR9X483, WR9X10041, WR9X10075, WR9X10101, WR9X10111
SC955	Resistor 6	25	120	GE® WR9X502, WR9X387
SC959	Capacitor 8	30	120	GE® WR9X566, Electrolux® 215846602



SC950



SC953

UNIVERSAL DEFROST TIMERS

- Universal Replacement
- Electronic Circuitry
- Adjustable Defrost Frequency 4 to 12 Hours
- Adjustable Defrost 10 to 35 Minutes
- Cycle Advance Button
- Standard Size and Mounting to Fit Most Applications
- No Ground Wire
- Quiet Operation and Durability
- Standard Terminal Configuration Accommodate Most Connections
- Dust Proof Case
- Temperature Range 32°F to 135°F (0°C to 57°C)
- Humidity Range 10-95% Non-Condensing

PART NO.	DESCRIPTION	VOLTAGE	MAX. COMPRESSOR RATING	MAX RESISTIVE LOAD (AMPS)
UET120	Universal Electronic Timer	120 VAC	1/2 HP	10
UET240	Universal Electronic Timer	120 VAC	1/2 HP	5
EDT10	Electronic Defrost Timer	115 VAC	1/3 HP	10
EDT11	Electronic Defrost Timer	115 VAC	3/4 HP	20
EDT20	Electronic Defrost Timer	208/240 VAC	3/4 HP	5
EDT21	Electronic Defrost Timer	208/240 VAC	3/4 HP	20



UET120



UET240



EDT11



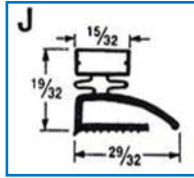
EDT20

APPLIANCE

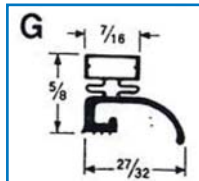
Refrigerator

FOUR PIECE MAGNETIC UNIVERSAL DOOR GASKETS

PART NO.	COLOR	MAXIMUM DOOR SIZE (IN.)	PROFILE
SU2001	White	20 x 30	J
SU2002	White	32 x 42	J
SU2003	White	32 x 55	J
SU2004	White	36 x 84	J

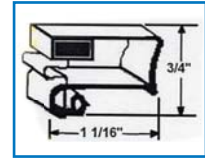


PART NO.	COLOR	MAXIMUM DOOR SIZE (IN.)	PROFILE
SU2301	White	20 x 30	G
SU2302	White	32 x 42	G
SU2303	White	32 x 55	G
SU2304	White	36 x 84	G

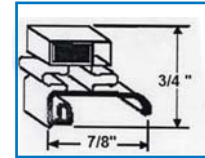


SUB-ZERO® REPLACEMENT DOOR GASKETS

PART NO.	Sub-Zero® NO.	MAXIMUM DOOR SIZE (IN.)
SZ0573	7010573	67.5 x 27.5
SZ0574	7010574	67.25 x 17.625
SZ0575	7010575	47.75 x 33.75
SZ0578	7010578	58.5 x 33.75
SZ0583	7010583	59 x 34
SZ0584	7010584	67.75 x 27.75
SZ0592	7010592	33.75 x 18.25

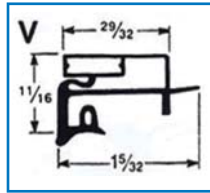


PART NO.	Sub-Zero® NO.	MAXIMUM DOOR SIZE (IN.)
SZ0609	7010609	29.625 x 23.25



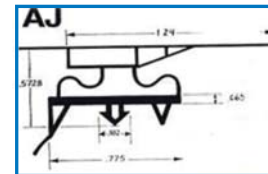
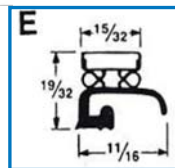
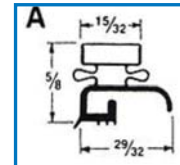
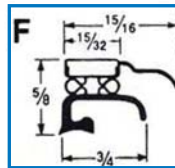
DIRECT REPLACEMENT DOOR GASKETS FOR ELECTROLUX®

PART NO.	OEM NO.	PROFILE	DIMENSIONS (IN.)	COLOR
SWC26	218730603	V	11 13/16 x 19 1/4	TN



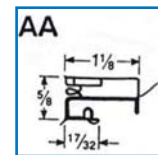
DIRECT REPLACEMENT DOOR GASKETS FOR GE®

PART NO.	OEM NO.	PROFILE	DIMENSIONS (IN.)	COLOR
SGE286	WR24X286	F	17 1/8 x 26 3/16	BR
SGE287	WR24X287	E	26 7/16 x 36 3/4	BR
SGE312	WR24X312	F	17 1/8 x 26 3/16	WH
SGE127	WR24X313	E	26 1/4 x 36 1/2	WH
SGE318	WR24X318	A	26 1/8 x 39 3/4	BR
SGE319	WR24X319	A	26 1/4 x 39 3/4	WH
SGE450	WR24X450	AJ	27 1/4 x 38 5/8	WH
SGE485	WR24X485	AJ	26 1/8 x 37 15/16	WH
SGE486	WR24X486	AJ	25 15/16 x 41	WH



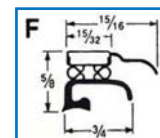
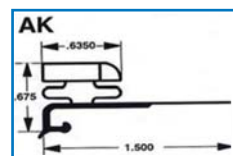
DIRECT REPLACEMENT DOOR GASKETS FOR MAYTAG®

PART NO.	OEM NO.	PROFILE	DIMENSIONS (IN.)	COLOR
SAM59	12550116Q	AE	23 1/2 x 31 1/4	WH
SAD68	70048-1	AA	28 1/4 x 36 5/8	WH
SAD70	70048-2	AA	28 1/4 x 39 1/8	WH
SAD72	70048-3	AA	30 3/4 x 39 1/8	WH



DIRECT REPLACEMENT DOOR GASKETS FOR WHIRLPOOL®

PART NO.	OEM NO.	PROFILE	DIMENSIONS (IN.)	COLOR
SCS115	592945	AK	27 x 42 1/2	WH
SCS44	2188404A	F	19 1/8 x 59 1/32	WH
SCS75	2188444A	F	30 1/4 x 42 3/8	WH
SCS115	2188445A	F	27 x 42 1/2	WH
SCS112	2188448A	F	27 1/16 x 39 7/8	WH
SCS42	2188450A	F	31 13/32 x 39 1/8	WH
SCS46	2188451A	F	28 13/32 x 39 1/8	WH
SCS102	2188456A	F	16 1/2 x 26 3/4	WH



APPLIANCE

Refrigerator

RIM277

ICEMAKER REPLACEMENT KIT

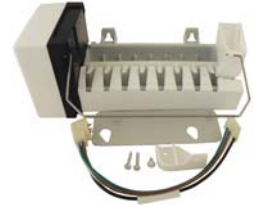
- Can Replace Electrolux® 5303918277, 5303291912, 218226700, 218699501
- Includes 2 Harnesses. This Unit can also Replace: Amana®/Maytag® D7824706Q



RIM300

ICEMAKER REPLACEMENT KIT

- Can Replace GE® IM1, IM2, IM3, UKKIT, WR30X328
- Offering the Dependability of the Modular Design, this Icemaker Includes Mounting Plate to Match the GE® Style Round Plug with Four Pin Connection



RIM313

ICEMAKER REPLACEMENT KIT

- Can Replace Whirlpool® 1129313, ECKMF-64
- Used on many Whirlpool® brands



RIM316

ICEMAKER REPLACEMENT KIT

- Can Replace Whirlpool® 1129316, ECKMF-60
- Used on many Whirlpool® brands



RIM469

ICEMAKER REPLACEMENT KIT

- Can Replace Whirlpool® 2155469A, ECKMF-94, 2155468
- Unit can also be used on Amana®, Estate®, Maytag® and SubZero®



RIM500

ICEMAKER REPLACEMENT KIT

- Can Replace Whirlpool® 4211173, 4317943, W10122496, W10190952



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Refrigerator

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RIM501 ICEMAKER REPLACEMENT KIT

- Can Replace Amana® D7824706, 1110702A Kit, D7567102



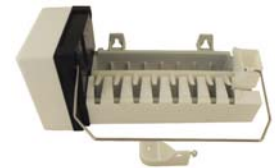
RIM597 ICEMAKER REPLACEMENT KIT

- Can Replace Whirlpool® 2198597, 2198678, 626663, W10122502, W10190960



RIM900 ICEMAKER REPLACEMENT KIT

- Universal Replacement for all Modular Style Icemakers Including 4317943, 626636, D7824706Q, W10122496
- Replaces Most of the 120 VAC Modular Icemakers on the Market Today



RIM943 ICEMAKER REPLACEMENT KIT

- Can Replace Whirlpool® 4317943, 625601, W10122496 and W10190952



RIM2000 ICEMAKER REPLACEMENT KIT

- Universal Replacement for all Modular Style Icemakers Including 4317943, 626636, D7824706Q, W10122496
- Replaces Most of the 120 VAC Modular Icemakers on Tens of Thousands of Refrigerators.



RIM961 ICEMAKER REPLACEMENT KIT

- Can Replace W10190961, W10122503, 2212353 and 2212352



SZ4200520 ICEMAKER REPLACEMENT KIT

- Can Replace SubZero® 501F, 522, 532, 561 and 221M



Refrigerator

ICEMAKER REPLACEMENT INSTALLATION KITS

Each Kit Contains SUPCO's Unique "Self-Tapping Valve" and All the Fittings Necessary for Installations with Copper or Plastic Tubing.

- Includes Valve, 25' of 1/4" Plastic Tubing and Fittings
- Installs Quickly and Easily
- Water Lines Do Not Have to be Drained
- Water Does Not Have to be Shut Off
- Can be Installed Under Any Sink, or From Any Branch Line



PT25

PART NO.	DESCRIPTION	TUBING	VALVE	VALVE TYPE	CONNECTION AT TAP	CONNECTION AT APPL.
PT25	Valve, 25 ft., All Fittings	Plastic	STV2LL	Self Tapping	1/4" Compression	1/4" Compression
PT25E	Valve, 25 ft., 2 Fittings	Plastic	STV2LL	Self Tapping	1/4" Compression	1/4" Compression

COPPER ICEMAKER REPLACEMENT KITS

Each Kit Contains SUPCO's Unique "Self-Tapping Valve" and All the Fittings Necessary for Installations with Copper or Plastic Tubing.

- Includes Valve, 15' of Copper 1/4" OD, and Fittings
- Installs Quickly and Easily
- Water Lines Do Not Have to be Drained
- Water Does Not Have to be Shut Off
- Can be Installed Under Any Sink, or From Any Branch Line



C15

PART NO.	DESCRIPTION	TUBING	VALVE	VALVE TYPE	CONNECTION AT TAP	CONNECTION AT APPL.
C15	Valve, 15 ft., 1/4" OD	Copper	STV2LL	Self Tapping	1/4" Compression	1/4" Compression
C25	Valve, 25 ft., 1/4" OD	Copper	STV2LL	Self Tapping	1/4" Compression	1/4" Compression

GA31 ICEMAKER GEAR

- Drive Gear for Mechanical Ice makers
- Can Replace Electrolux® 3206301, GE® WR29X5162, Maytag® R0183094 and Whirlpool® 628210



VI2404 BRASS ADAPTER

- All Brass - Will Not Rust
- Angled 90° Fitting to Reduce Stress on Tubing
- Connection 3/4" MHT to 1/4" Compression
- Washer Included



ICEMAKER HEADS

- Direct Replacement Ice maker Modular Head

PART NO.	REPLACES
IMM1515	Whirlpool® 8201515, 626653, W10122535
IMM8366	Whirlpool® W10190935, 628366, W10122536



IMM1515



IMM8366

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Refrigerator

SL7985

HARVEST THERMOSTAT

- Can Replace W10290336, 627985, 0056603 and 627808
- This Harvest Thermostat Opens at 32°F and Closes at 17°F



ICEMAKER CONTROL BOARDS

- Power Control Board Kit
- Emitter and Receiver

PART NO.	REPLACES
ADC9102	4389102
ADC5988	61005988
ADC8931	4388931
ADC8932	4388932
ADC4099	2304099



ADC9102

CB10942

MAIN CONTROL BOARD

- Controls the Operation of the Unit
- Can Replace Several GE® Models



TH10025

THERMISTOR

Used to Sense the Temperature in Refrigerator Cabinet, Connects to the Control Board.

- Designed to Meet or Exceed OEM Specifications
- Can Replace GE® WR55X10025



SWITCHES

ES18809	Switch	5	125	Snap-In	Gem® 18809, 188-9
		2.5	250		
ES18811	Switch	5	125	Snap-In	Gem® 18811, 188-11
		2.5	250		
ES18812	Switch	10	125	Snap-In	Gem® 18812, 188-2
		5	250		
ES18814	Switch	5	125	Snap-In	Gem® 18814, 188-4
		2.5	250		
ES18806	Light Switch	3	125	Threaded	Gem® 15100, 151
		1	250		
ES18810	Light Switch	5	125	Snap-In	Gem® 18810, 188-10
		2.5	250		
ES18805	Fan Switch	5	125	Snap-In	Gem® 18805, 188-5
		2.5	250		



ES18805



ES18809

TH4150

THERMISTOR

Used to Sense the Temperature in Refrigerator Cabinet, Connects to the Control Board.

- Designed to Meet or Exceed OEM Specifications
- Can Replace Sub-Zero® 4204150



SCWG3 & SCWG4

WATER GUARDS

- Fits Around Inlet Hose
- Starts Operation Immediately After Installation

- Prevents and Removes Limestone
- Saves Energy and Water

PART NO.	NO. OF MAGNETS
SCWG3	3
SCWG4	4



SCWG4

Refrigerator

CONDENSER FAN MOTORS

- Designed to Meet or Exceed OEM Specifications for Superb Performance and Reliability

PART NO.	REPLACES	WATTS	ROTATION
SM0740	Sub-Zero® 4200470	2.3	CWLE
SM5109	Whirlpool® 833697	2	CWLE
SM5113	Universal	2.5	CWLE
SM5211	Light Commercial, Display Coolers	4	CWLE
SM5311	Restaurant Units	6	CWLE
SM5411	Beer/Soda Coolers	9	CWLE

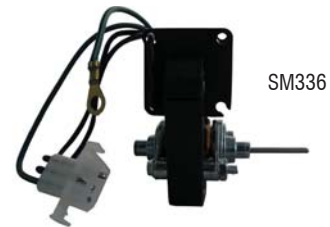


EVAPORATOR FAN MOTORS

- Designed to Meet or Exceed OEM Specifications for Superb Performance and Reliability

PART NO.	REPLACES
SM329	Whirlpool® 4318001
SM335	Maytag® 56488-2
SM336	Electrolux® 5300158289
SM10220	GE® WR60X10220
SM0020E	Samsung® 0A31-00020E
SM0146B	Samsung® 0A31-00146B

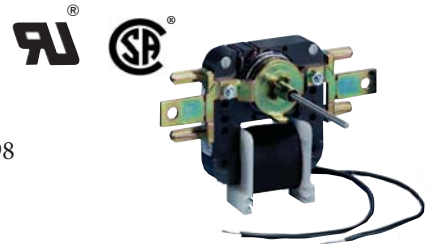
PART NO.	REPLACES
SM343	Whirlpool® 482731
SM338	GE® WR60X162
SM399	Whirlpool® 4389144
SM345	Whirlpool® 4389142
SM8549	Electrolux® 5303918549
SM4888	Maytag® 61004888
SM10172	GE® WR60X10172
SM2744	Maytag® 12002744
SM9703	Whirlpool® W01089703
SM10074	GE® WR60X10074
SM10141	GE® WR60X10141
SM10185	GE® WR60X10185
SM10257	GE® WR60X10257



SM998/SM999 UNIVERSAL EVAPORATOR FAN MOTOR KIT

- Prefastened Multi Fit, Break Off Mounting Bracket
- Break Off 2" Motor Shaft with Breakaways at 1/2" and 1 1/2"
- Includes All Mounting Accessories and Hardware
- Reversible Rotation
- Single Speed
- Shaft Diameter 1/8"
- Replaces Over 450 Different Evaporator Type Motors
- SM999 is Direct Replacement for the Gem® 240 Series, Mars® 90999 and Robertshaw® 33-110, 33-112, 33-114
- SM998 is Direct Replacement for Mars® 90998

PART NO.	DESCRIPTION
SM999	120 VAC, 3000 RPM, 1/200 H.P., .31 AMP Impedance Protected
SM998	220 VAC, 3000 RPM, 1/200 H.P., .31 AMP Impedance Protected



SM1127 UNIVERSAL EVAPORATOR FAN MOTOR

Universal 3.3" Commercial Refrigeration Motor Replaces Over 100 OEM Shaded Pole Evaporator Fan Motors.

- Thermal Protection
- Reversible Rotation
- Open Ventilation
- 7.5 Microfarad, 370V Run Capacitor Included
- Sleeve Bearing



WATER VALVES

PART NO.	REPLACES
WV8047	Whirlpool® 4318047
WV8046	Whirlpool® 4318046
WV10051	GE® 57X10051
WV10032	GE® WR57X10032
WV10033	GE® WR57X10033

PART NO.	REPLACES
WV8179	Whirlpool® W10408179
WV1450	Sub-Zero® 4201450
WV2790	Sub-Zero® 4202790
WV2	Universal
WV1460	Sub-Zero® 4201460 1,81



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Refrigerator

WATER FILTERS

- Uses Advanced Filtering Technology to Turn Tap Water into Great Tasting Water
- Removes the Turbidity (Taste and Odor), Sediment, Lime Scale, Dirt, Rust and Chlorine From Water
- Operating Temperature is 33°to 100°F (0.6° to 37°C)



EFF-6001A
Can Replace Whirlpool®
4396701, 4396702



EFF-6002A
Can Replace Kenmore®/
Sears® 9010P, Whirlpool®
4396508, 4396510



EFF-6003A
Can Replace
LG® 5231JA2006B



EFF-6005A
Can Replace CUNO®
LT500P, 5231JA2002A-S



EFF-6006A
Can Replace Samsung®
DA29-00012B, DA29-00012A,
DA2900012B



EFF-6007A
Can Replace Maytag®
UKF8001



EFF-6009A
Can Replace Whirlpool® 6010,
8171414, KitchenAid® 8171787,
8171788, Kenmore®/Sears® 9002



EFF-6010A
Can Replace Whirlpool®, Kenmore®,
KitchenAid® 817413, 8171413R,
8171413T



EFF-6011
Can Replace Samsung®
DA29-00003A, DA29-
00003G, Whirlpool® /
Maytag® W10132126



EFF-6013A
Can Replace GE® MWF,
Hotpoint® HWF,
Kenmore®/Sears® 9905



EFF-6014A
Can Replace Maytag®
UKF7003



EFF-6017A
Can Replace
Fisher & Paykel® 836848

GE® is a registered trademark of General Electric.

Part Numbers and illustrations are intended solely for identification. Water filters offered are not represented to be manufactured by the original equipment manufacturer. All trademarks and registered trademarks are the property of their respective owners.

Refrigerator



EFF-6021A
Can Replace Amana®/
Maytag® WF401,
Kenmore® 9014



EFF-6022A
Can Replace GE® MSWF



EFF-6023A
Can Replace
GE®/Hotpoint® GSWF



EFF-6025A
Can Replace
Bosch® 644845



EFF-6026A
Can Replace
Bosch® 640565



EFF-6027A
Can Replace Samsung®
DA29-00020B



EFF-6032A
Can Replace LG® LT700P,
Sears®/Kenmore® 9690,
46-9690

UNIVERSAL INLINE



EFF-6036A



EFF-6034A



WF1CB-EFF REPLACEMENT CARTRIDGE

Can Replace Frigidaire®/Electrolux®
WF1CB, WFCB, Kenmore® 9910P

EBHR REFRIGERATOR REPAIR MANUAL

- Economical and User Friendly
Refrigerator Repair Manual



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Washer

AGITATOR PARTS

- Designed to Meet or Exceed OEM Specifications

PART NO.	DESCRIPTION	REPLACES
LP285	Agitator Cam Kit	Whirlpool® 285811
LP301	Drive Spline	GE® WH1X1944
LP319	T- Bearing	Whirlpool® 350920
LP338	Agitator Dogs (4 pc.)	Whirlpool® 285770
LP338D	Agitator Dogs (12 pc.)	Whirlpool® 285770D
LP630	Center Post Upper Seal	Whirlpool® 356394
LP631	Spin Tube Seal	Whirlpool® 91938
LP1586	Anit-Siphon Kit	Alliance® 297P3, 386P3, Maytag® 12001586 and More
LP5834	Calypso Anti-Siphon Kit	Whirlpool® 285834



LP630



LP285

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WASHER BELTS

- Consists of Rubber Core, Cord Members, Top Cushion and Rubber Impregnated or Cloth Cover

PART NO.	LENGTH (IN.)	WIDTH (IN.)	REPLACES
LB131	42	1/2	Norge® 35-0465, Gem®350425 Maytag® 33-6104
LB151	41 1/2	3/8	Frigidaire® Q62149, Electrolux® 321155 Maytag® 211451 and More
LB161	47 1/2	3/4	Gem® 96388, Whirlpool® 352967, 96388
LB230	47	3/8	Gem® 311012, Maytag® 311012
LB231	68	3/8	Gem® 311013, Maytag® 311013, Alliance® 75098
LB260	88	1/2	Gem® Q63807, Electrolux® 3204314, 3281154 and More
LB276	91 5/8	3/8	Admiral® 53-2910, Whirlpool® 532910, Maytag® 31001026
LB279	92	1/2	Maytag® 3301777, Whirlpool® 660997
LB788	55 1/2	1/2	Maytag® 12001788, 22002040, 22002313
LB0024	48	5/8	GE® WH03X10024
LB0101	48	1/2	Whirlpool® 8540101
LB6384	22	3/8	Whirlpool® W10006384



LB230



LB161



LB276



LB279

LP785

CLUTCH KIT

- Includes Blue Spring for Large Capacity Washers
- Includes Black Spring for Compact Washers
- Can Replace Whirlpool® 285785



LP790

CLUTCH KIT

- Can Replace Whirlpool® 285790



Washer

LP956 PUMP TO DRAIN HOSE

- 15/16" Inside Diameter
- 15" Length
- Can Replace Maytag® 212989, 211107



GNB/GNBA GOOSENECK

- GNB is 1" OD Plastic Gooseneck
- GNBA is 1" OD Aluminum Gooseneck



GNB



GNBA

SSD6/SSD6GE NO-KINK DRAIN HOSE 6"

- 1" x 6"
- Universal Design
- Can Fit Hundreds of Models
- SSD6GE is GE® Style, Order LA188 Clip
- SSD6 Can Replace Whirlpool® 4391969



SSD8/SSD8GE NO-KINK DRAIN HOSE 8"

- 1" x 8"
- Universal Design
- Can Fit Hundreds of Models
- SSD8GE is GE® Style, Order LA188 Clip



SSDW7 DRAIN HOSE

- 5/8" Diameter
- 7' Length



513P LA172 FILL HOSE COUPLING

Used to Connect Fill Hose Sections on Most Domestic Washers



HM101 DRAIN HOSE COUPLING

- Manufactured from High Impact Polyethylene
- Straight Hose Mender
- 1" Diameter



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Washer

APPLIANCE

INLET HOSES

- Pressure Tested to 800 psi (Cold) and 600 psi (Hot)
- Double Crimped Fittings for Strength and Safety
- Ozone Resistant to Prevent Rubber Decay

PART NO.	LENGTH (FT.)	FITTINGS	REPLACES
3804FF	4	Female	Electrolux® 5303271009, 5303280320, ERP® ER804FF
3805FF	5	Female	
3806FF	6	Female	ERP® ER3806FF, GE® WX41X60DS
3808FF	8	Female	ERP® ER3808FF
3810FF	10	Female	ERP® 3810FF
3805FE	5	Female/Elbow	



3810FF

LTK1 WASHER LINT SCREEN KIT



WASHER PUMPS

- Designed to Meet or Exceed OEM Specifications

PART NO.	# OF PORTS	REPLACES
LP112	4	GE® WH23X42, WH1X1694, WH1X1885 and More
LP115	3	Whirlpool® 285317, 358258, 370403 and More
LP116	2	Whirlpool® 3348015, 3363394, 3348014 and More
LP121	2	Whirlpool® 3363892, 3352496
LP123	2	Whirlpool® 3363892, 3352496
LP128	2	Maytag® 21001873, 21002240
LP397	2	Whirlpool® W10276397
LP280187	2	Whirlpool® 280187
SM285990	2	Whirlpool® 285990
LP1585L	2	Samsung® DC96-01585L
LP5974C	2	Samsung® DC97-15974C
LP2002H	N/A	LG® 4681EA2002H and More
LP36347	2	Whirlpool® W10536347
LP2001T	N/A	LG® 4681EA2001T
LP054D	N/A	Samsung® DC31-00054D
LP30913	N/A	Samsung® W10130913



LP112



LP121



LP128



LP397

SWITCHES

- Designed to Meet or Exceed OEM Specifications

PART NO.	DESCRIPTION	# OF TERMINALS	REPLACES
LP210	Lid Switch and Actuator Package	3	GE® WE4X814, WE4X866, WE04X0866 and More
ES682	Lid Switch	2	Maytag® 22001682
ES247	Lid Switch	3 Round	Whirlpool® 3949247
ES671	Lid Switch	3	Whirlpool® 285671
ES8084	Lid Switch	3 Flat	Whirlpool® 8318084
ES9238	Lid Switch	3 Flat	Whirlpool® 3949238
ES7166	Microswitch	3 Flat	Whirlpool® 285671



ES682



ES8084

Washer

LP510 TUB BOOT

- Can be Used on GE® Washers Pre-1995
- Can Replace GE® WH8X246



LA189 TUB STRAP

- Made from High Quality Rubber
- 6" Length
- Not For Use on Compacts or Stackable Washers
- Can Be Used on GE® Washers From 1996 to Present
- Can Replace GE® WH1X2727



GVW151 UNIVERSAL REPLACEMENT VALVE

- 120V Water Valve, Replaces Most Washer Valves with Side by Side Coils on Metal Bracket
- Can Replace Several Major Brands
- Can Replace Electrolux® 131208500, GE® WH13X81, Maytag® 205614 and More



WV1 UNIVERSAL WATER VALVE KIT

- Replaces 95% of the Valves in the Field
- Easy to Change Configuration, Allows One Valve to Replace Most Modern 2 Coil Valves
- Can Replace Alliance® 33930, 34963, Electrolux® 134190200 and More



DIRECT REPLACEMENT WATER VALVES

PART NO.	REPLACES
WV0026	GE® WH13X10026
WV0027	GE® WH13X10027
WV0314K	Samsung® DC62-30314K
WV0312J	Samsung® DC62-30312J
WV0142G	Samsung® DC62-00142G



WV0026

LP580 INJECTOR NOZZLE

- Plastic Injector Nozzle Used on Whirlpool® and Maytag® Models
- Can Replace Whirlpool® 213015



LP581 MAYTAG® INJECTOR VALVE

- Washer Air Gap Rubber Injector Valve
- Can Replace Whirlpool® 213016



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Washer

LP585 INJECTOR TUBE

- Rubber Side Mount
- 13" Length
- U- Shaped
- Can Replace Whirlpool® 206154



LP663 WASHER INJECTOR KIT

- Includes Hose, Injector Tube, Spout and 2 Clamps
- Can Replace Whirlpool® 204660



LP655 TUB REPAIR KIT

- Outer Tub Repair Kit, Used on Small Leaks that May Develop Around the Tub Bolts
- Can Replace Whirlpool® 76673



LP617 BUMPER

- Rubber Bumper for Whirlpool® Models
- 50 Per Pack
- Can Replace Whirlpool® 93770



LP925 SPRING SEAL PACKAGE

- For Use on Belt Drive Models
- Can Replace Whirlpool® 285672



LP939 SHAFT SEAL

- Transmission Shaft Seal Used on Whirlpool® Brands
- Can Replace Whirlpool® 91939



TH2046C THERMISTOR

Used to Sense the Temperature in Refrigerator Cabinet, Connects to the Control Board.

- Designed to Meet or Exceed OEM Specifications
- Can Replace LG® 6322FR2046C



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Washer

WASHER TIMERS

PART NO.	REPLACES
LP1000	GE® WH12X1000
LP10348	GE® WH12X10348
LP10350	GE® WH12X10350
LP10338	GE® WH12X10338



LP1000

LP933 FOOT PAD

- Leveling Leg Cap for GE® Models
- Can Replace GE® WH1X484



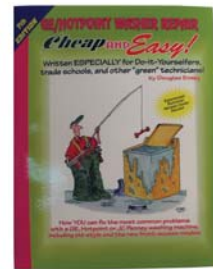
LP753 MOTOR COUPLER

- Used on Direct Drive Washers with No Belt
- Reinforced with Metal Sleeves
- Can Replace Whirlpool® 285753A



EBGW REPAIR MANUAL FOR GE® WASHERS

- Economical and User Friendly Washer Repair Manual for GE® Models



EBMW REPAIR MANUAL FOR MAYTAG® WASHERS

- Economical and User Friendly Washer Repair Manual for Maytag® Models



EBWM WASHER REPAIR MANUAL

- Economical and User Friendly Washer Repair Manual



EBWW REPAIR MANUAL FOR WHIRLPOOL® WASHERS

- Economical and User Friendly Washer Repair Manual for Whirlpool® Models



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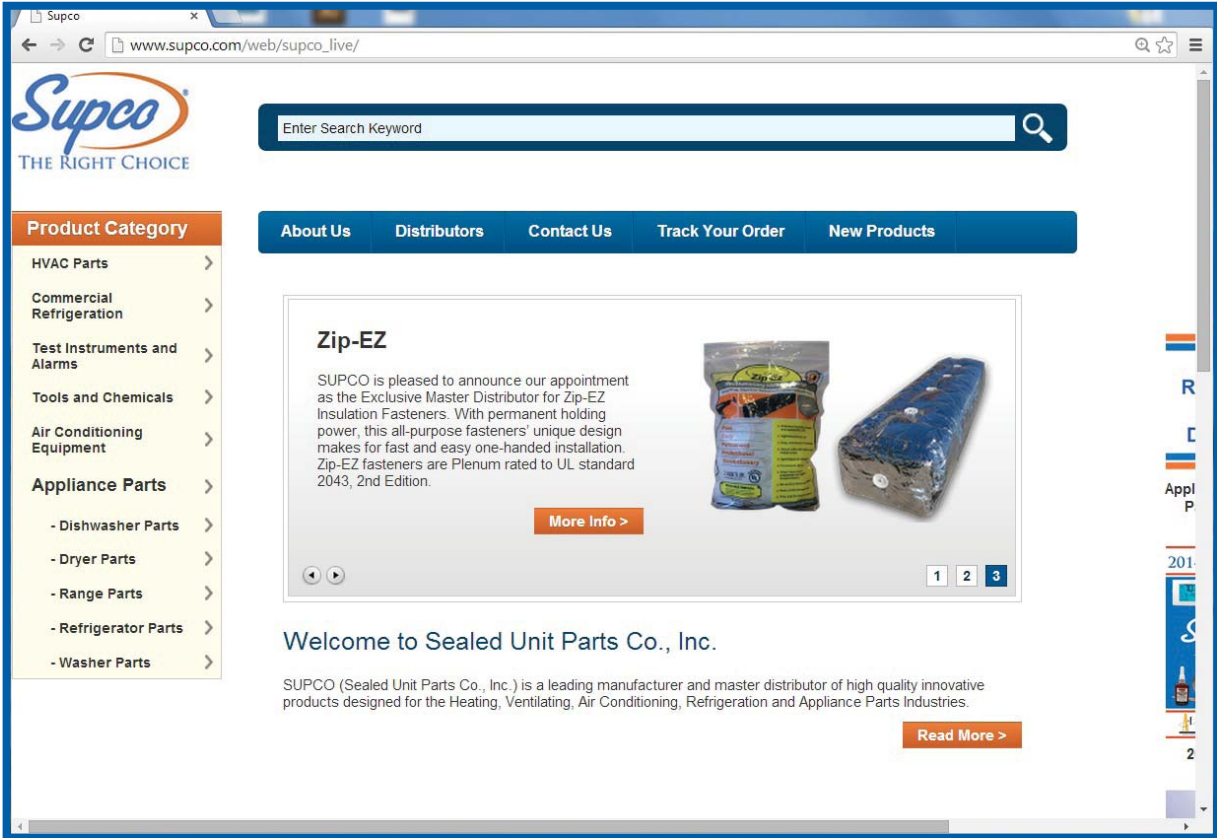
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