



LLD Series Liquid Line Driers

Features/Benefits

- Solid copper fittings
- Shock resistant steel construction
- High acid and moisture removal
- Corrosion resistant epoxy powder paint finish

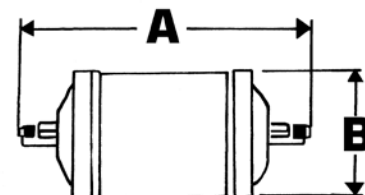
Specifications

- Desiccant Blend: Activated Alumina with Molecular Sieve
- Filtration: 40 microns
- Maximum working pressure (MWP): 680 psig all LLD Driers

Applications

Solid core liquid line filter drier ideal for use with CFC, HCFC and HFC refrigerants including R410A.

- Refrigeration Compressors
- Air Conditioning Compressors
- Heat Pump Compressors



Nomenclature

Example: LLD083S

LLD	08	3	S
Series	Unit Size Cubic Inches	Connection Size (in 1/8)	S=ODF Connection (Omit for SAE)

LLD CAPACITY TABLES

PART NO.	Connection SIZE & TYPE	Dimensions in Inches A B		FLOW CAPACITY TONS @ 1 PSI Δ P (1)(4) (FOR KW, MULTIPLY TONS BY 3.5)								WATER CAPACITY / DROPS OF WATER												
				R-12	R-134a	R-22	R-410A	R-407C	/507	R-502	R-12		R-134a		R-22		R-407C		R-410A		R-404/507		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	64	46	44	37	34	31	31	21	27	17	47	37	43	34
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 Δ 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	23.3	19.6	17.4	14.7	20.2	17.7

The LLD filter-drier is UL listed for 680 PSIG maximum working pressure for all sizes.

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,033,033S	1/4	1/4	1/4	1/2	3/4	3/4	1
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
0825S	1	1	1	2	3	3	4
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
1625S	2	2 1/2	2	3	4	4	5
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



SSLD Series / Suction Line Filter Driers

Features

- Dual access valves
- Solid copper fittings
- Corrosion resistant epoxy powder paint finish

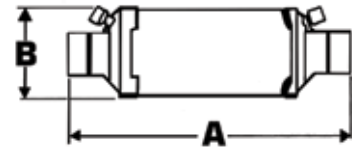
Applications

- To protect the compressor from dirt and all solid contaminants.

Specifications

- Filtration: 40 microns
- Maximum working pressure (MWP): 500 psig

SSLD Dimensions Diagram



Nomenclature

Example: SSDL167S

SSLD	16	7	S
Series	Unit Size Cubic Inch	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		+40°F		+20°F		0°F		-20°F		+40°F		+20°F		0°F		-20°F		-40°F	
				R-134a				R-22				R410A									
		A		B		PRESSURE DROP IN PSI															
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				