

AUGUST



Air Dryer



RSLF & RSLS SERIES

REFRIGERATED AIR DRYER

August Refrigeration Air Dryer

Compressed air is a reliable and widely source of energy used in large majority industrial processes. However, the compressor draws in atmospheric air which is contaminated with dirt, germs, bacteria, water vapour and unburnt hydrocarbon. Water vapor in the compressed air causes many quality problems such as premature wear and failure in pneumatic equipment, spoiled products, damaged system, corrosion of pipe. All these problems could cause high maintenance costs and air leakage.

For general purposes application, refrigeration dryer provides the economical and popular method of removing unwanted moisture from the compressed air. August high efficiency and energy saving refrigeration dryer provide air quality to ISO8573.1 Classes 4,5 and 6 for water vapour.

Benefit

- Provide air quality to ISO8573.1 (Class 4 to 6 for water vapour)
- Constant dew point with different load conditions
- Low ownership cost
- Low running cost and energy efficiency
- Suitable for all type of air compressor
- Low pressure drops across refrigeration dryer
- Low environment impact as RSLF/RSLs dryer uses only environmentally friendly refrigerant R407c and R134a.
- Simplified maintenance and easy to use
- High reliability

Key Features

- Easy to install, maintain and compact design. RSLF/RSLs dryer has been designed with easy installation with PLUG & PLAY concept. Panels are easily removable and user can have easy access to the refrigerant components for maintenance and cleaning.
- High quality aluminium material uses for condensate drain pipe system, demister housing and inlet/ outlet pipe which reduces the chances of pipe contamination.
- Energy efficient refrigerant compressor. High efficiency refrigerant scroll compressor is used for RSLF/RSLs -200 and above. Better tolerance against liquid damage and less vibration.
- Equipped with mechanical float drain for RSLF-06 to RSLF-40. RSLF-60/RSLs-120 and above equipped with robust and reliable electrical timed drain with option for zero loss electronic drain.
- PCB temperature display for RSLF/RSLs and above with option of PLC control for RSLF/RSLs -120 and above.



Electrical timed drain
RSLF-60/RSLs-120
and above



PCB
temperature
display



High efficiency
scroll compressor
RSLF/RSLs-200 & above

REFRIGERATED AIR DRYER RSLF & RSLS SERIES

Heat Exchanger

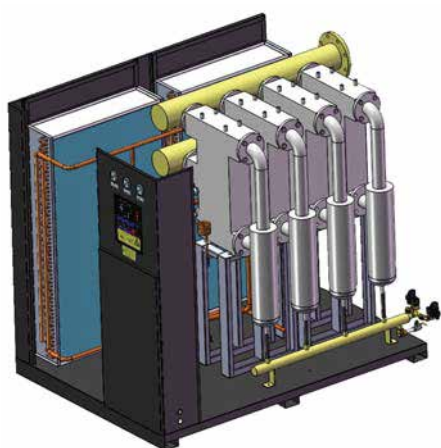
High efficiency reinforced aluminum heat exchanger is used for RSLF-60/RSLS-120 and above allows the refrigerant circuit to be 30% smaller than traditional refrigeration system and less energy consumption.

Air to Air Heat Exchanger

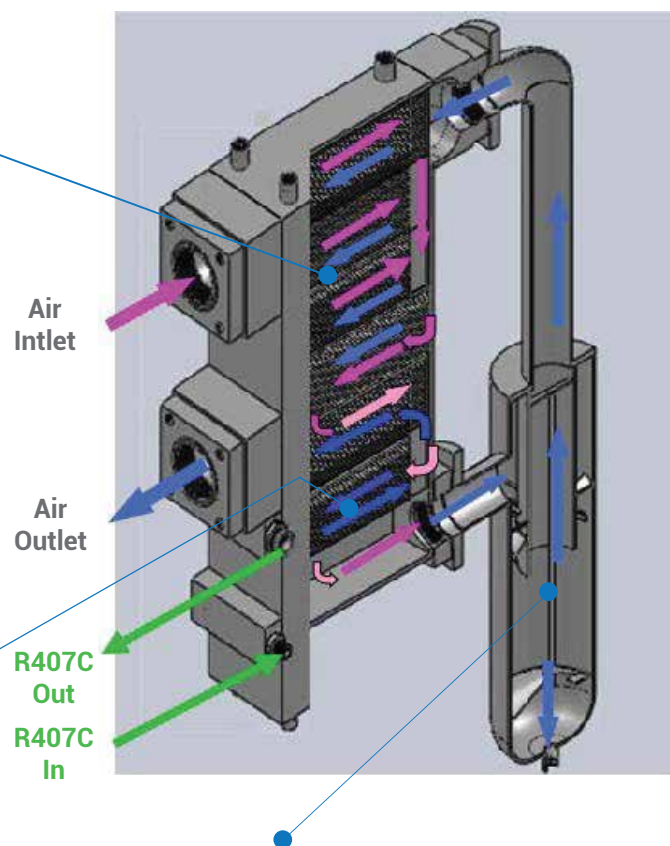
There are two phases (Pre-cool / Re-heat) in the air to air heat exchanger. The inlet air is pre-cooled by the outlet cold air whereby heat is being transfer to cold air. It reduce the energy consumption required by the refrigerant as portion of the heat load has been removed. At the same time by re-heating the cold air before it was supply to the production, it reduces the possibility of condensation at the external surface of the dryer outlet pipe.

Air to Refrigerant Heat Exchanger

The pre-cooled air will be further cool to the required dew point by transferring heat to the cold refrigerant in the air to refrigerant heat exchanger. The cold air will then be directed to the high efficiency moisture separator.



Models RSLF-60-PD to RSLF-350-PD / RSLS-120-PD to RSLS-350-PD use a single high efficiency and performance aluminum heat exchanger. Models RSLF-400-PD/RSLS-400-PD and above use multiple modules.



High Efficiency Moisture Separator

The cold air passed through the high efficiency moisture separator and condensate will be removed from the compressed air before being supply to production.

Stainless Steel Plated Heat Exchanger

Stainless steel plated heat exchanger is used for RSLF-06 to RSLF-40 and high-pressure RSLF-HP.



TECHNICAL DATA

Technical Data RSLF-06-SSD - RSLF-40-SSD

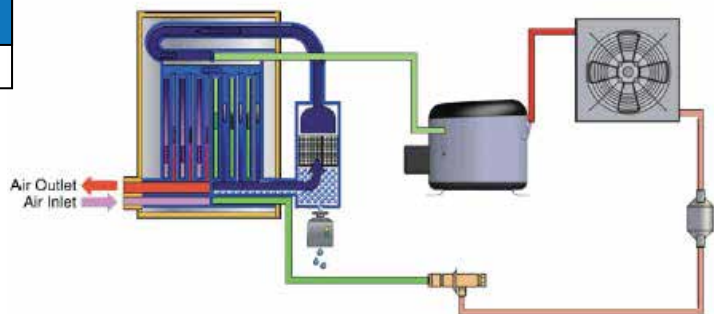
Model	Nominal Flow Rate	Air Connection	Dimensions (mm)			Weight kg	Power Supply	Installation Power	Refrigerant
	m ³ /min		L	W	H			kW	
RSLF-06-SSD	0.6	Rc 1/2"	500	250	500	25	220V/1Ph/50Hz	0.3	R134a
RSLF-09-SSD	0.9	Rc 1/2"	500	250	500	25	220V/1Ph/50Hz	0.3	R134a
RSLF-12-SSD	1.2	Rc 1/2"	600	310	500	30	220V/1Ph/50Hz	0.6	R134a
RSLF-15-SSD	1.5	Rc 1/2"	600	310	500	30	220V/1Ph/50Hz	0.6	R134a
RSLF-18-SSD	1.8	Rc 1/2"	600	310	500	30	220V/1Ph/50Hz	0.6	R134a
RSLF-24-SSD	2.4	Rc 3/4"	750	360	550	50	220V/1Ph/50Hz	0.9	R134a
RSLF-30-SSD	3.0	Rc 3/4"	750	360	550	50	220V/1Ph/50Hz	0.9	R134a
RSLF-36-SSD	3.6	Rc 3/4"	750	360	550	55	220V/1Ph/50Hz	1.0	R134a
RSLF-40-SSD	4.0	Rc 3/4"	750	360	550	55	220V/1Ph/50Hz	1.0	R134a

Nominal dryer flow rated at inlet pressure 7 barg, inlet air temperature 38°C, ambient temperature 38°C and pressure dew point 3°C to 10°C. Other power supply are available upon request

3 barg 44 psig	4 barg 58 psig	5 barg 73 psig	6 barg 87 psig	7 barg 102 psig	8 barg 116 psig	9 barg 131 psig	10 barg 145 psig	11 barg 160 psig	12 barg 174 psig	13 barg 189 psig	14 barg 203 psig	15 barg 218 psig	16 barg 232 psig
0.76	0.86	0.92	0.93	1.00	1.04	1.08	1.11	1.15	1.18	1.22	1.25	1.28	1.30

Correction factor for inlet temperature (KB)

35°C 95°F	38°C 100°F	40°C 104°F	45°C 113°F	50°C 122°F	55°C 134°F	60°C 146°F
1.11	1.00	0.92	0.76	0.69	0.56	0.46



Correction factor for ambient temperature (KC)

25°C 77°F	30°C 86°F	35°C 95°F	38°C 100°F	40°C 104°F	45°C 113°F	50°C 122°F
1.15	1.10	1.02	1.00	0.89	0.79	0.69

1. Selected the correction factor (KA), (KB) and (KC).
2. Calculate the dryer capacity require using the following: Actual flow rate = Nominal flow rate x KA x KB x KC



Model	Nominal Flow Rate	Air Connection	Dimensions (mm)			Weight kg	Power Supply	Installation Power	Refrigerant
	m³/min		L	W	H			kW	
RSLF-60-PD	6.5	Rc 1-1/2"	760	592	913	78	220V/1Ph/50H	1.6	R407C
RSLF-80-PD	8.8	Rc 1-1/2"	760	592	913	80	220V/1Ph/50H	2.0	R407C
RSLF-100-PD	11.0	Rc 1-1/2"	760	592	913	85	220V/1Ph/50H	2.0	R407C
RSLF-120-PD	13.0	Rc 2"	1000	710	1030	130	220V/1Ph/50H	2.4	R407C
RSLF-150-PD	17.0	Rc 2"	1000	710	1030	140	220V/1Ph/50H	3.7	R407C
RSLF-200-PD	22.0	Rc 2"	1000	710	1030	150	380V/3Ph/50H	4.5	R407C
RSLF-250-PD	27.0	Rc 2-1/2"	1000	830	1600	250	380V/3Ph/50H	5.4	R407C
RSLF-300-PD	33.0	Rc 2-1/2"	1000	830	1600	260	380V/3Ph/50H	6.8	R407C
RSLF-350-PD	37.0	Rc 2-1/2"	1000	830	1600	270	380V/3Ph/50H	7.9	R407C
RSLF-400-PD	45.0	DN 100	1250	1120	1750	500	380V/3Ph/50H	7.9	R407C
RSLF-500-PD	55.0	DN 100	1250	1120	1750	510	380V/3Ph/50H	10.6	R407C
RSLF-600-PD	65.0	DN 100	1250	1120	1750	550	380V/3Ph/50H	12.6	R407C
RSLF-700-PD	73.0	DN 125	1250	1120	1750	580	380V/3Ph/50H	12.6	R407C
RSLF-800-PD	80.0	DN 150	1460	2000	1770	700	380V/3Ph/50H	16.2	R407C
RSLF-900-PD	90.0	DN 150	1460	2000	1770	720	380V/3Ph/50H	16.2	R407C
RSLF-1000-PD	100.0	DN 150	1460	2000	1770	940	380V/3Ph/50H	19.1	R407C
RSLF-1200-PD	120.0	DN 150	1460	2000	1770	950	380V/3Ph/50H	19.1	R407C
RSLF-1500-PD	150.0	DN 200	1560	2000	1850	1150	380V/3Ph/50H	25.6	R407C
RSLF-1800-PD	180.0	DN 200	1560	2000	1850	1350	380V/3Ph/50H	30.8	R407C

Technical Data RSLS-120-PD - RSLS-1800-PD

Model	Nominal Flow Rate m³/min	Air Connection	Dimensions (mm) L W H			Weight kg	Power Supply	Installation Power kW	Cooling Water Connection	Cooling Water Consumption t/h	Refrigerant
RSLS-120-PD	13.0	Rc 2"	1000	710	1030	135	220V/1Ph/50Hz	2.43	3/4"	0.53	R407C
RSLS-150-PD	17.0	Rc 2"	1000	710	1030	140	220V/1Ph/50Hz	3.25	3/4"	0.73	R407C
RSLS-200-PD	22.0	Rc 2"	1000	710	1030	150	380V/3Ph/50Hz	4.27	3/4"	0.96	R407C
RSLS-250-PD	27.0	Rc 2-1/2"	1000	830	1600	250	380V/3Ph/50Hz	4.84	1"	1.07	R407C
RSLS-300-PD	33.0	Rc 2-1/2"	1000	830	1600	260	380V/3Ph/50Hz	6.29	1"	1.38	R407C
RSLS-350-PD	37.0	Rc 2-1/2"	1000	830	1600	270	380V/3Ph/50Hz	7.42	1"	1.61	R407C
RSLS-400-PD	45.0	DN 100	1100	1010	1750	500	380V/3Ph/50Hz	7.42	1-1/4"	1.79	R407C
RSLS-500-PD	55.0	DN 100	1100	1010	1750	510	380V/3Ph/50Hz	9.71	1-1/4"	2.29	R407C
RSLS-600-PD	65.0	DN 100	1100	1010	1750	550	380V/3Ph/50Hz	11.73	1-1/4"	2.77	R407C
RSLS-700-PD	73.0	DN 125	1100	1010	1750	560	380V/3Ph/50Hz	11.73	1-1/4"	3.05	R407C
RSLS-800-PD	80.0	DN 150	1100	1500	1800	680	380V/3Ph/50Hz	14.43	1-1/2"	3.18	R407C
RSLS-900-PD	90.0	DN 150	1100	1500	1800	700	380V/3Ph/50Hz	14.43	1-1/2"	3.74	R407C
RSLS-1000-PD	100.0	DN 150	1100	1770	1800	930	380V/3Ph/50Hz	17.34	1-1/2"	3.98	R407C
RSLS-1200-PD	120.0	DN 150	1100	1770	1800	950	380V/3Ph/50Hz	17.34	1-1/2"	4.76	R407C
RSLS-1500-PD	150.0	DN 200	1225	2220	1800	1150	380V/3Ph/50Hz	23.86	1-1/2"	5.96	R407C
RSLS-1800-PD	180.0	DN 200	1225	2220	1800	1350	380V/3Ph/50Hz	29.03	1-1/2"	7.16	R407C

*Nominal dryer flow rated at inlet pressure 7 barg, inlet air temperature 38°C ambient temperature 38°C, cooling water temperature 32°C and pressure dew point 3°C to 10°C. Other power supply are available upon request.

Correction factor for pressure (KA)

3 barg 44 psig	4 barg 58 psig	5 barg 73 psig	6 barg 87 psig	7 barg 102 psig	8 barg 116 psig	9 barg 131 psig	10 barg 145 psig	11 barg 160 psig	12 barg 174 psig	13 barg 189 psig	14 barg 203 psig	15 barg 218 psig
0.76	0.86	0.92	0.93	1.00	1.04	1.08	1.11	1.15	1.18	1.22	1.25	1.28

Correction factor for inlet temperature (KB)

35°C 95°F	38°C 100°F	40°C 104°F	45°C 113°F	50°C 122°F	55°C 134°F	60°C 146°F
1.11	1.00	0.92	0.76	0.69	0.56	0.46

Correction factor for cooling water temperature (KC')

20°C 68°F	25°C 77°F	32°C 90°F	35°C 95°F	40°C 104°F
1.17	1.09	1.00	0.92	0.84

Correction factor for ambient temperature (KC)

25°C 77°F	30°C 86°F	35°C 95°F	38°C 100°F	40°C 104°F	45°C 113°F	50°C 122°F
1.15	1.10	1.02	1.00	0.89	0.79	0.69

1. Selected the correction factor (KA), (KB), and (KC/KC').
2. Calculate the dryer capacity require using the following: Actual flow rate = Nominal flow rate x KA x KB x KC / KC'

TECHNICAL DATA

Technical Data RSLF-60-PD - RSLF-1800-PD

Model	Nominal Flow Rate	Air Connection	Dimensions (mm)			Weight kg	Power Supply 380V/3Ph/50Hz	Installation Power kW	Cooling Water Connection R2 1/2"	Cooling Water Consumption t/h	Refrigerant R407C
	m³/min		L	W	H						
RSL-1500-ST	150	DN200	2900	1935	1956	2680	380V/3Ph/50Hz	29.0	R2 1/2"	20	R407C
RSL-2000-ST	200	DN200	3067	1995	2098	3900	380V/3Ph/50Hz	35.2	R2 1/2"	30	R407C
RSL-2500-ST	250	DN250	3700	2250	2263	4300	380V/3Ph/50Hz	46.4	R2 1/2"	32	R407C
RSL-3000-ST	300	DN250	3953	2525	2245	5000	380V/3Ph/50Hz	58.2	R3"	40	R407C
RSL-3500-ST	350	DN300	4000	2600	2500	5600	380V/3Ph/50Hz	63.8	R3"	45	R407C

*Nominal dryer flow rated at inlet pressure 7 barg, inlet air temperature 38°C, cooling water temperature 32°C and pressure dew point 3°C to 10°C. Other power supply are available upon request.

Correction factor for pressure (KA)

5 barg 73 psig	6 barg 87 psig	7 barg 102 psig	8 barg 116 psig	9 barg 131 psig	10 barg 145 psig
0.92	0.93	1.00	1.04	1.08	1.11

20°C 68°F	25°C 77°F	32°C 90°F	35°C 95°F	40°C 104°F
1.17	1.09	1.00	0.92	0.84

Correction factor for inlet temperature (KB)

35°C 95°F	38°C 100°F	40°C 104°F	45°C 113°F	50°C 122°F	55°C 131°F	60°C 140°F
1.11	1.00	0.92	0.76	0.69	0.56	0.46

1. Selected the correction factor (KA), (KB) and (KC).
2. Calculate the dryer capacity require using the following: Actual flow rate = Nominal flow rate x KA x KB x KC

Technical Data RSLF-HT (High Inlet Temperature)

Model	Nominal Flow Rate	Air Connection	Dimensions (mm)			Weight kg	Power Supply 220V/1Ph/50Hz	Installation Power kW	Refrigerant R134a
	m³/min		L	W	H				
RSLF-12-HT	1.2	Rc 1/2"	655	325	550	35	220V/1Ph/50Hz	0.60	R134a
RSLF-24-HT	2.4	Rc 1"	815	475	600	70	220V/1Ph/50Hz	1.10	R134a
RSLF-30-HT	3.0	Rc 1"	815	475	600	75	220V/1Ph/50Hz	1.10	R134a
RSLF-60-HT	6.0	Rc 1-1/2"	750	690	1240	125	220V/1Ph/50Hz	1.90	R407C
RSLF-80-HT	8.0	Rc 1-1/2"	750	690	1240	128	220V/1Ph/50Hz	2.30	R407C
RSLF-100-HT	10.0	Rc 1-1/2"	750	690	1240	133	220V/1Ph/50Hz	2.50	R407C
RSLF-120-HT	12.0	Rc 2"	1000	820	1450	165	220V/1Ph/50Hz	2.75	R407C
RSLF-150-HT	15.0	Rc 2"	1000	820	1450	175	220V/1Ph/50Hz	3.30	R407C
RSLF-200-HT	22.0	Rc 2"	1000	820	1450	185	380V/3Ph/50Hz	5.50	R407C

*Nominal dryer flow rated at inlet pressure 7 barg, inlet air temperature 60°C, ambient temperature 38°C and pressure dew point 3°C to 10°C. Other power supply are available upon request.

Correction factor for pressure (KA)

4 barg 58 psig	5 barg 73 psig	6 barg 87 psig	7 barg 102 psig	8 barg 116 psig	9 barg 131 psig	10 barg 145 psig	11 barg 160 psig	12 barg 174 psig	13 barg 189 psig	14 barg 203 psig	15 barg 218 psig
0.86	0.92	0.93	1.00	1.04	1.08	1.11	1.15	1.18	1.22	1.25	1.28

Correction factor for inlet temperature (KB)

50°C 122°F	55°C 131°F	60°C 140°F	65°C 149°F	70°C 158°F	75°C 167°F	80°C 176°F
1.03	1.02	1.00	0.87	0.78	0.70	0.64

Correction factor for inlet temperature (KB)

25°C 77°F	30°C 86°F	35°C 95°F	38°C 100°F	40°C 104°F	45°C 113°F	50°C 122°F
1.15	1.10	1.02	1.00	0.89	0.85	0.61

1. Selected the correction factor (KA), (KB) and (KC).
2. Calculate the dryer capacity require using the following : Actual flow rate = Nominal flow rate x KA x KB x KC

AJ AUGUST INDONESIA JAYA

Jakarta

Komplek Gading Bukit Indah Blok V No. 23
Kelapa Gading - Jakarta Utara 14240
Indonesia
Telp : +62 21 2938 2790

Bandung

Taman Holis Indah Blok E4 No. 21
Kel. Cigondewah Kidul Kec. Bandung Kulon
Bandung, Jawa Barat 40214
Indonesia
Telp : +62 22 2057 3429

Solo

Jl. Raya Solo Sragen KM.15 Dukuh Nglarangan RT.03/RW.01
Kel.Kebak, Kec. Kebakramat, Kab.Karanganyar,
Jawa Tengah 57762
Indonesia
Telp : +62 271 601 2023

Workshop

Pergudangan Central Cakung Business Park
Blok D No. 11 Jl. Cakung Cilincing Timur KM 3
Jakarta Utara 14140
Indonesia