Refrigeration Air Dryer

Flow range: 1.6~180 m3/min

Pressure range: ≤1.6 MPa (16 barg)

Maximum intake air temperature: 60°C

Maximum ambient temperature: 50°C

Minimum ambient temperature: 5°C

Maximum cooling water temperature: 35°C

Cooling method: air-cooled/water-cooled

Power supply: 220V/1Ph/50Hz (60-PD~150-PD)

380V/3Ph/50Hz(200-PD~1800-PD)

Refrigerant: R407C (R22 optional)

Rated working conditions: working pressure 0.7 MPa, intake air temperature 38°C, ambient temperature 38°C, cooling water temperature 30°C, pressure dew point 2-10°C.

High-Quality Compressed Air for Enhanced Equipment and Processes

Refrigerated dryers provide dry compressed air, which extends the lifespan of your equipment and ensures superior production quality. By efficiently removing moisture, these systems help prevent corrosion in compressed air networks and tools, ultimately reducing maintenance costs and enhancing operational efficiency, allowing for complete peace of mind throughout the production process.

» Robust and Durable

- The precooler, evaporator, and gas-liquid separator feature an integrated design for improved functionality.
- The specially designed, thickened alloy aluminum heat exchanger assembly offers significantly higher corrosion resistance compared to similar products, both domestically and internationally. Unlike carbon steel alternatives, it does not contribute to secondary pollution of the gas quality.
- The wind condenser's surface is treated with a nano anti-corrosion coating, extending its service life.

» Energy-Efficient and Environmentally Friendly

- The heat exchanger employs an advanced plate-fin structure, prevalent in European and American designs, ensuring high efficiency.
- The temperature differential between the inlet and outlet of the precooler ranges from 5 to 8°C, outperforming similar products and ensuring extremely low relative humidity at the outlet while preventing condensation at the nozzle.
- The precooler recovers over 90% of the cooling capacity, effectively reducing the load on the evaporator, which results in the entire system consuming only 70% of the energy required by comparable products.
- All products in this series utilize environmentally friendly refrigerants that comply with international environmental protection regulations.

» Safe and Reliable

- A segmented test design mitigates the risk of system leakage.
- All main components are sourced from internationally recognized brands known for their reliability.
- Each product in the series is equipped with multiple overload and shutdown protection mechanisms.

- The entire series has successfully passed the latest EU CE safety certification.

» Diverse Control Options

- The standard configuration includes an instrument type with fault alarm capabilities.
- Users may choose from various options tailored to their needs, including single-chip microcontrollers, PLCs, and touch screens.
- The system accommodates a range of communication requirements, including RS485 I/O, Profibus, Modbus, and Ethernet connections.

Technical Parameters

Standard operating conditions

Ambient temperature 35°C; Intake temperature <45°C; Intake pressure>0.7Mpa; Pressure dew point 2-10°C under standard working conditions.

Extreme conditions

Ambient temperature<45°C; Intake temperature<60°C; Inlet pressure>0.5Mpa; Equipment pressure: below SLT135L (included)≤1.6Mpa; above SLT170L (included)≤1.3Mpa

Model	Capacity (Nm^3/min)	Refrigerant	Supply	Related Power(kW)	Weight (kg)	Connection	L*W*H(mm)
SLT016L	1.6	R410A	220V50HZ/1PH	0.41	35	G1	530*410*635
SLT026L	2.6	R410A	220V50HZ/1PH	0.75	42	G1	530*410*635
SLT038L	3.8	R410A	220V50HZ/1PH	0.77	55	G1-1/2	530*535*750
SLT065L	6.5	R410A	220V50HZ/1PH	1.23	70	G1-1/2	530*535*750
SLT085L	8.5	R410A	220V50HZ/1PH	1.62	80	G1-1/2	530*535*750
SLT115L	11.5	R410A	220V50HZ/1PH	2.38	110	G2	850*750*920
SLT135L	13.5	R410A	220V50HZ/1PH	2.65	120	G2	850*750*920
SLT170L	17.0	R410A	220V50HZ/1PH	3.25	150	G2-1/2	920*850*1150
SLT200L	20.0	R407C	380V50HZ/3PH	2.93	170	G2-1/2	920*850*1150
SLT250L	25.0	R407C	380V50HZ/3PH	3.58	200	G3	920*850*1150
SLT340L	34.0	R407C	380V50HZ/3PH	4.96	320	DN100	1150*1050*1600
SLT400L	40.0	R407C	380V50HZ/3PH	5.53	335	DN100	1150*1050*1600
SLT500L	50.0	R407C	380V50HZ/3PH	7.47	350	DN100	1150*1050*1600
SLT600L	60.0	R407C	380V50HZ/3PH	8.88	500	DN150	2160*1050*1600
SLT750L	75.0	R407C	380V50HZ/3PH	10.75	550	DN150	2160*1050*1600
SLT800L	80.0	R407C	380V50HZ/3PH	11.34	600	DN150	2160*1050*1600
SLT1000L	100.0	R407C	380V50HZ/3PH	14.55	650	DN150	2160*1050*1600