

LINGYU凌宇

—COMPRESSED AIR SYSTEM—
ZHONGSHAN LINGYU MACHINERY CO., LTD.



Main Product:

- Air cooled/water cooled /energy-saving refrigerated dryer
- Heatless regeneration / heated regeneration / modular adsorption dryer
- Zero loss/ micro air consumption adsorption dryer
- PSA nitrogen generator
- Filter and accessories



Corporate mission:

To provide professional, comprehensive and competitive complete solutions and services for industrial gas separation and purification



Corporate vision:

To be a leading enterprise in the industry and create a world-renowned brand



Corporate development philosophy:

Technology-supported value-driven



Marketing strategy:

To win the market with high-quality products and professional service

AH SERIES

AIR-COOLED REFRIGERATED AIR DRYER

■ Design Features

High stability

Core components - two units are produced independently. The compressors are mainly made of well-known brands such as Panasonic, Copeland, Danfoss, Han bell, etc., and are also equipped with well-known brand refrigeration accessories.



Good processing effect

Equipped with an independent water distribution system and multiple upgrades, the water distribution efficiency is guaranteed;



Wide range of applicable working conditions

Using hydrophilic aluminum foil, and the entire series comes standard with heat exchangers and pre-coolers, making it more adaptable to harsh working conditions

Intelligent dual system design

95 ~ 180 cubic meters adopts a 1 + 1 dual compressor design, matching in size, and automatically starts and stops the No. 2 compressor according to the load, which is more energy-saving and in situations where gas consumption fluctuates greatly;

Strong customization ability

The color can be customized, PLC is optional, dry contacts. Modbus communication, can be customized according to customer needs.

■ Operating conditions and Technical requirements

Applicable fluids: compressed air, non-corrosive air

Rated inlet pressure: 0.7MPa (0.6MPa~1.0MPa is allowed to be used, other pressure levels are subject to customization)

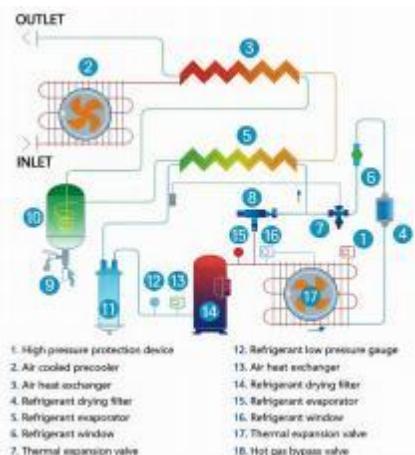
Rated air inlet temperature: 50 °C (limit air inlet temperature: ≤80 °C)

Pressure loss under full load: <0.025MPa

Dew point of outlet pressure: 2 °C ~ 10 °C

Rated ambient temperature: 35 °C (2 °C ~ 45 °C can be used)

Cooling method: air-cooled



■ Technical Parameters

Model	Capacity (m³/min)	Voltage (V/ Hz)	Power (kW)	Inlet /Outlet	Weight (Kg)	AH SERIES AIR-COOLED	
						Dimension (L*W*H)	
LY-D10AC	1.5	220/50	0.68	G1"	48	680×440×710	
LY-D20AC	2.5	220/50	0.83	G1"	58	800×440×800	
LY-D30AH	3.8	220/50	1.1	G1.5"	95	980×500×930	
LY-D50AH	6.5	220/50	1.5	G1.5"	110	1030×550×1000	
LY-D75AH	10.5	220/50	2.2	G2"	160	1240×650×1150	
LY-D100AH	13.5	380/50	3.1	G2.5"	225	1350×670×1300	

LY-D120AH	17	380/50	3.1	G2.5"	235	1350×670×1300
LY-D150AH	21.5	380/50	5.2	DN80	295	1450×700×1510
LY-D180AH	25	380/50	5.2	DN80	345	1450×700×1510
LY-D200AH	28.5	380/50	5.5	DN80	430	1550×850×1595
LY-D250AH	32	380/50	6.2	DN80	450	1550×850×1595
LY-D300AH	37	380/50	7.8	DN100	550	1700×850×1740
LY-D350AH	41.5	380/50	7.8	DN100	600	1700×850×1740
LY-D400AH	45	380/50	10	DN100	630	1830×950×1840
LY-D450AH	50	380/50	10	DN100	680	1830×950×1840
LY-D500AH	55	380/50	11.7	DN125	780	2020×950×1850
LY-D550AH	60	380/50	11.7	DN125	830	2020×950×1850
LY-D600AH	65	380/50	11.9	DN125	950	2300×1300×1930
LY-D700AH	75	380/50	13.9	DN125	1050	2390×1395×1805
LY-D800AH	85	380/50	16.2	DN125	1200	2400×1420×1860
LY-D900AH	95	380/50	16.7	DN150	1350	3000×1550×2145
LY-D1100AH	110	380/50	19.7	DN150	1450	3100×1600×2180

Note: If the air volume is greater than **110m³/min** or special specifications, materials, or temperature requirements are required, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice. For other specifications, please contact our company directly.



WH SERIES

WATER-COOLED

REFRIGERATED AIR DRYER

■ Design Features

High stability

Core components - two units are produced independently. The compressors are mainly made of well-known brands such as Panasonic, Copeland, Danfoss, Han bell, etc., and are also equipped with well-known brand refrigeration accessories.

Good processing effect

Equipped with an independent water distribution system and multiple upgrades, the water distribution efficiency is guaranteed;

Wide range of applicable working conditions

Using hydrophilic aluminum foil, and the entire series comes standard with heat exchangers and pre-coolers, making it more adaptable to harsh working conditions

Intelligent dual system design



95 ~ 180 cubic meters adopts a 1 + 1 dual compressor design, matching in size, and automatically starts and stops the No. 2 compressor according to the load, which is more energy-saving and in situations where gas consumption fluctuates greatly;

Strong customization ability

The color can be customized, PLC is optional, dry contacts. Modbus communication can be customized according to customer needs.

■ Operating conditions and technical requirements

Rated air inlet pressure: 0.7MPa (0.6MPa ~ 1.0MPa is allowed to use, other working pressures are customized)

Rated intake air temperature: 50°C (limit intake air temperature ≤ 80°C)

Pressure dew point: 2-10 °C

Rated ambient temperature: 32 °C (2 °C ~ 45 °C allowed)

Pressure loss: ≤ 0.02MPa

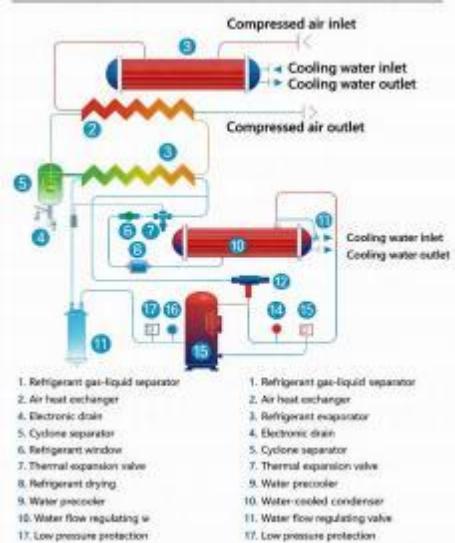
Cooling mode: water cooling

Cooling water pressure: 0.2-0.4 MPa

Cooling water temperature: ≤ 30 °C (2 °C ~ 38 °C is allowed)

Refrigerant: R22 (R407, R134a and other environmentally friendly refrigerant are customized)

Process flow chart of water-cooled high temperature freezing dryer



■ Technical Parameters

AH SERIES AIR-COOLED

Model	Capacity (m ³ /min)	Voltage (V/ Hz)	Power (kW)	"Water flow	Model	Capacity m ³ .min	Voltage (V/ Hz)	Power (kW)
LY-D75WH	10.5	220/50	1.8	5	G1"	G2"	160	710*440*680
LY-D100WH	13.5	380/50	2.6	6	G1"	G2-1/2"	225	1300*650*1350
LY-D120WH	17	380/50	2.6	6.5	G1"	G2-1/2"	235	1300*650*1350
LY-D150WH	21.5	380/50	4.6	7.5	G1"	G3"	295	1510*700*1450

LY-D180WH	25	380/50	4.6	9	G1"	G3"	345	1510*700*1450
LY-D200WH	28.5	380/50	4.6	10.5	G1"	DN80	430	1605*850*1550
LY-D250WH	32	380/50	5.4	11	G1-1/2"	DN80	450	1605*850*1550
LY-D300WH	37	380/50	6.9	12	G1-1/2"	DN100	550	1750*850*1700
LY-D350WH	41.5	380/50	6.9	12.5	G1-1/2"	DN100	600	1750*850*1700
LY-D400WH	45	380/50	9.2	14.5	G1-1/2"	DN100	630	1850*950*1830
LY-D450WH	50	380/50	9.2	15	G1-1/2"	DN100	680	1650*950*2020
LY-D500WH	55	380/50	10.3	17.6	G2"	DN125	780	1650*950*2020
LY-D550WH	60	380/50	10.3	18.5	G2"	DN125	830	1595*1300*2250
LY-D600WH	65	380/50	10.3	21	G2"	DN125	1050	1595*1300*2250
LY-D700WH	75	380/50	11.6	23	G2"	DN125	1200	1625*1395*2180
LY-D800WH	85	380/50	13.8	27	G2"	DN125	1500	1625*1390*2280
LY-D900WH	95	380/50	15.5	29	G2"	DN150	1600	1900*1500*2450
LY-D1100WH	110	380/50	17	33	G2"	DN150	1700	1980*1650*2450
LY-D1200WH	120	380/50	19.2	35.5	G2"	DN150	1800	1980*1650*2450
LY-D1400WH	140	380/50	20.4	40	G2"	DN200	1950	2080*1750*2580
LY-D1600WH	160	380/50	23.9	47	G2-1/2"	DN200	2100	2123*1750*2650

Note: If the air volume is greater than **160m³/min** or special specifications, materials, or temperature requirements are required, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice. For other specifications, please contact our company directly.



PD SERIES

INTEGRATED HEAT EXCHANGER

REFRIGERATED AIR DRYER

■ Design Features

Low energy consumption

Using a three-in-one plate heat exchanger, the entire machine can save 20 ~ 30% of energy consumption:

Low pressure drop

The pressure loss of the whole machine is less than 0.015 MPa, which is lower than the national standard;

Environmentally friendly and durable

The entire series uses environmentally friendly refrigerant R410a/ R407C, which complies with international environmental standards and has a maximum pressure of 1.6 MPa;

Low dew point



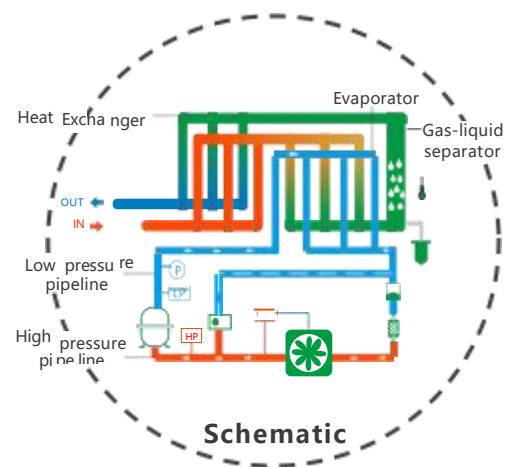
Under standard working conditions, the pressure dew point is as low as 2-10°C, and the electronic bypass valve is used to make the system more stable;

Intelligent control

Standard PLC control for 200P and above, with RS-485 communication interface;

High quality finished gas

The heat exchange system is made of aluminum alloy/stainless steel, has no rust residue, no impurities, and no secondary pollution to compressed air. It can be widely used in the fields of medicine and food.



■ Operating Conditions

Applicable Fluids: Compressed air / Non-corrosive air

Rated Inlet Pressure: Standard: 0.7 MPa / Usable range: 0.6 MPa – 1.0 MPa / Other pressure levels available on customization

Rated Inlet Temperature: Standard: 45 ° C / Maximum inlet temperature: ≤ 60 ° C

Pressure Loss Under Full Load: < 0.01 MPa

Outlet Pressure Dew Point: 2°C – 10°C

Rated Ambient Temperature: Standard: 35 ° C / Usable range: 2 ° C – 45 ° C

Cooling Method: Air-cooled / Water-cooled (optional)

■ Technical Parameters

Model	Capacity (m³/min)	Voltage (V/Hz)	Power (kW)	Inlet /Outlet	PD SERIES AIR-COOLED (L*W*H)
LY-PD10A	1.50	220/50	0.70	RC1"	500X380X740
LY-PD20A	2.50	220/50	0.79	RC1"	500X380X740
LY-PD30A	3.80	220/50	0.90	RC1"	520X450X990
LY-PD50A	6.50	220/50	1.20	RC 1"-"	520X450X990
LY-PD75A	10.5	220/50	2.00	RC2"	670X560X1330
LY-PD100A	13.5	220/50	2.30	RC2"	670X560X1330
LY-PD120A	17.0	220/50	2.80	RC1"-½"	1200X700X1480
LY-PD150A	21.5	380/50	3.90	DN80	1460X700X1480
LY-PD180A	25.0	380/50	4.90	DN80	1480X740X1480
LY-PD200A	28.5	380/50	4.90	DN80	1480X740X1600
LY-PD250A	32.0	380/50	5.70	DN80	1480X740X1600
LY-PD300A	37.0	380/50	7.80	DN100	1640X840X1750
LY-PD400A	45.0	380/50	8.80	DN100	1640X840X1750
LY-PD500A	55.0	380/50	10.1	DN125	1740X840X1750
LY-PD600A	65.0	380/50	10.1	DN125	1890X740X1803
LY-PD700A	75.0	380/50	11.1	DN125	1980X950X1990
LY-PD800A	85.0	380/50	13.7	DN125	2220X950X2063

Note: For processing capacity above **85 m³/min** or if special specifications, materials, or temperature conditions are required, please contact our company or authorized distributors. Specifications are subject to change without prior notice.

DB SERIES

MULTI PLE ENERGY-SAVING REFRIGERATED AIR DRYER

■ Design Features

Low pressure loss

The precooler is a newly designed annular pipe structure. It has three times more pipes than a traditional precooler. The sufficient flow cross-sectional area of the compressed air further reduces the pressure difference and the overall pressure of the machine. The loss is less than 0.1bar;

Low dew point

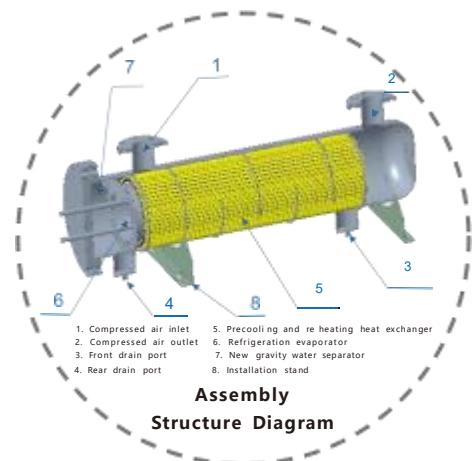
The new optimized integrated three-in-one design and unique water separation design make the dew point more secure;

Frequency conversion energy saving

Brand frequency converter, frequency conversion range 30Hz ~90Hz, by changing the electromechanical frequency of the dryer to match the actual working conditions;

Intelligent control

It comes standard with PLC and touch screen, which intelligently controls the compressor cooling capacity output by sensing the evaporation load to ensure the machine operates at its best. It comes with a standard RS-485 communication interface.



■ Operating Conditions & Requirements

Applicable Fluids: Compressed air, non-corrosive air

Rated Inlet Pressure: 0.7 MPa (0.6–1.0 MPa allowable; other pressures customizable)

Rated Inlet Temperature: 45°C (maximum ≤ 60°C)

Pressure Loss (Full Load): < 0.01 MPa

Outlet Dew Point: 2°C – 10°C

Ambient Temperature: 35°C (operating range 2°C – 45°C)

Cooling Method: Air-cooled / Water-cooled optional

■ Technical Parameters

Model	Capacity (m ³ /min)	Power (kW)	Connection size	Dimension (L*W*H)
LY-DB30A	3.8	0.44-1.25	DN40	1000 × 600 × 1050

LY-DB50A	6.5	0.48-1.42	DN40	1100 × 600 × 1100
LY-DB75A	10.5	0.6-1.9	DN50	1250 × 700 × 1155
LY-DB100A	13.5	0.8-3.6	DN65	1400 × 850 × 1350
LY-DB120A	17.0	1.02-3.6 1	DN80	1570 × 800 × 1200
LY-DB150A	21.5	1.02-4 .03	DN80	1500 × 950 × 1400
LY-DB180A	25.0	1.4-5.5	DN80	1835 × 940 × 1480
LY-DB200A	28.5	1.4-6.5	DN80	1835 × 940 × 1480
LY-DB250A	32.0	2.02-7 .58	DN80	1835 × 940 × 1480
LY-DB300A	37.0	2 .12-8.2	DN100	1900 × 980 × 1580
LY-DB350A	41.5	2 .3-9. 1	DN100	1900 × 980 × 1580
LY-DB400A	45.0	2 .39-9.56	DN100	1900 × 980 × 1580
LY-DB500A/W	55.0	1.13-10.49	DN125	2300 × 1000 × 1750
LY-DB600A/W	65.0	1.70-11 .20	DN125	2300 × 1000 × 1750
LY-DB700A/W	75.0	4.18-12.16	DN125	2490 × 1200 × 2220
LY-DB800A/W	85.0	4.5-14.30	DN125	2490 × 1200 × 2220
LY-DB900A/W	95.0	4.6-18.8	DN150	2450 × 1200 × 2250
LY-DB1100A/W	110	5.1-21 .2	DN150	2450 × 1200 × 2250
LY-DB1200A/W	120	5.6-22.8	DN150	2450 × 1200 × 2250

Note: For capacities above 120 m³/min or special material and temperature requirements, customized solutions are available. Data may change without prior notice.



DD SERIES

LOW ENERGY CONSUMPTION REFRIGERATED AIR DRYER

■ Design Features

Low pressure loss

The precooler is a newly designed annular pipe structure. It has three times more pipes than a traditional precooler. The sufficient flow cross-sectional area of the compressed air further reduces the pressure difference and the overall pressure of the machine. The loss is less than 0.1bar;

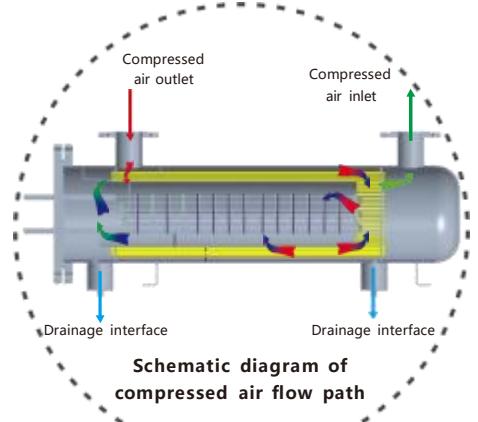
Low dew point

The new optimized integrated three-in-one design and unique water separation design make the dew point more secure;



Intelligent control

It comes standard with PLC and touch screen, which intelligently controls the compressor cooling capacity output by sensing the evaporation load to ensure the machine operates at its best. It comes with a standard RS-485 communication interface.



Operating conditions and Technical requirements

Applicable fluids: compressed air, non-corrosive air

Rated inlet pressure: 0.7 MPa (0.6 MPa~1.0 MPa is allowed to be used, other pressure levels are subject to customization)

Rated air inlet temperature: 45 °C (limit air inlet temperature: ≤80 °C)

Pressure loss under full load: <0.01 MPa

Dew point of outlet pressure: 2 °C~10 °C

Rated ambient temperature: 35 °C (2 °C~45 °C can be used)

Cooling method: air-cooled/water-cooled optional

Technical Parameters

Model	Capacity (m ³ /min)	Connection size	Weight (Kg)	Power (kW)	Dimension (L*W*H)
LY-DD30A	3.8	G1Y"	76	1.50	1000X600X1050
LY-DD50A	6.5	G1Y"	95	2.50	1100X600X1100
LY-DD75A	10.5	G2"	145	2.70	1250X700X1155
LY-DD100A/W	13.5	G2Y"	350	3.20	1400X800X1200
LY-DD120A/W	17.0	DN80	365	4.90	1500X950X1400
LY-DD150A/W	21.5	DN80	380	5.05	1450X800X1200
LY-DD180A/W	25.0	DN80	380	5.20	1650X940X1480

LY-DD200A/W	28.5	DN80	460	6.50	1650X940X1480
LY-DD250A/W	32.0	DN80	465	6.95	1650X940X1480
LY-DD300A/W	37.0	DN100	680	9.80	1900X980X1580
LY-DD400A/W	45.0	DN100	710	9.80	1900X980X1580
LY-DD500A/W	55.0	DN125	815	12.30	2100X1000X1700
L	LY-DD600A/W	65.0	DN125	880	14.50
L	LY-DD700A/W	75.0	DN125	1150	18.50
L	LY-DD800A/W	85.0	DN125	1370	18.80
L	LY-DD900A/W	95.0	DN150	1680	23.50
L	LY-DD1000A/W	110.0	DN150	1850	28.50
	LY-DD1100A/W	120.0	DN150	1890	28.50

Note: If the air volume is greater than **120m³/min** or special specifications, materials, or temperature requirements are required, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice. For other specifications, please contact our company directly.

OUR SERVICES

■ LINGYU Services



**Professional
efficient**



**Strive to improve
customer satisfaction**



**National coverage
fast response**





■ Service Content

- **Provide free after-sales consultation;**
- Debug, repair, and maintenance of Lingyu equipment during the warranty period;
- Survey the site of other brands outside the warranty period of Lingyu and formulate plans.

■ Complete Accessories

○ **Refrigerated air dryer**

Fans, compressors, condensers, evaporators, dry filters, expansion valves, bypass valves, pressure gauges, various drains, etc.

○ **Adsorption air Dryers**

Valves, electrical boxes, adsorbents, diffusers, silencers, solenoid valves, check valves, etc.

○ **Other accessories**

Various filter elements, differential pressure gauges, etc.



CONTACT US

- Address: No .3 , 2nd Street , Yuanle Road , DongshengTown , Zhongshan City , Guangdong Province , China
- E-mail: lingyudryer@gmail.com
- Website: www.lingyuair.com/