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L I N G Y U 凌 宇

ENERGY-EFFICIENT. PURE AIR.

**PROFESSIONAL SERVICE PROVIDER FOR COMPRESSED AIR
PURIFICATION AND SEPARATION**

ABOUT US



注：上图依次为新工厂鸟瞰图、新工厂办公大楼及生产车间

GUANGDONG LINGYU ENERGY EQUIPMENT CO., LTD.

- Established in 2009 in Guangdong Province, China.
- Drafting Organization for 30+ National, Industry, and Association Standards; Holder of 30+ Patents
- Recognized as a National High-Tech Enterprise, a Guangdong Specialized, Sophisticated, Distinctive and Innovative (SRDI) Enterprise, a Guangdong Innovative SME, and a Grade-A Tax Credit Enterprise
- Annual sales exceeded RMB 100 million in 2021, with an average annual growth rate of over 25% during the past three years
- Specializing in compressed air purification and separation technologies, with integrated capabilities in R&D, manufacturing, sales, and service
- Jointly established research institutes and comprehensive laboratories with Southwest Petroleum University and Jiangsu University of Science and Technology, respectively
- Council Member of the Compressor Branch and the Gas Purification Equipment Branch of the China General Machinery Industry Association (CGMA)
- Operating approximately 40,000 m² of manufacturing facilities, with a workforce of over 300 employees
- Supported by a comprehensive sales and service network, with dedicated departments for domestic channel sales, international sales, and after-sales service, and more than 40 sales and after-sales service locations

CORE BUSINESS CONCEPTS



DEVELOPMENT CHRONICLES

BROAD PROSPECTS 2022 - Present

- 2022 – Ranked No. 1 in Zhongshan in the Energy Conservation & Environmental Protection Category of the China Innovation & Entrepreneurship Competition.
- 2022 – Established a joint research institute with Southwest Petroleum University.
- 2023 – Established a joint dryer laboratory with Jiangsu University of Science and Technology.
- Launched and mass-produced the 3rd-generation DB Series energy-saving refrigerated air dryer.
- 2023 – Won the Bronze Award at the National Machinery Industry Design Innovation Competition.
- 2024 – Won the Silver Award at the National Machinery Industry Product Quality Innovation Competition.
- A new 40,000 m² smart factory was completed and put into operation, further expanding production capacity.

HIGH QUALITY 2019-2021

- Increased R&D investment with a focus on the energy-saving market.
- Recognized as a Guangdong SRDI Enterprise.
- Annual sales exceeded RMB 100 million in 2021.
- Featured on CCTV's Brand Origin program.
- Refrigerated and desiccant air dryers passed product quality and safety certification.
- Launched a new corporate VI system.

UPGRADE 2016 -2018

- Continued to host the China Compressor Industry High-End Energy-Saving & Intelligent Technology Forum.
- General Manager Yan Wenxue was interviewed by CCTV's National Brand Program.
- Obtained 24+ utility model patents.
- Blower-heated and heat-of-compression dryers were certified as High-Tech Products.
- Recognized as a National High-Tech Enterprise for the first time.
- Established a nationwide sales and service network.

INCREASING SCALE 2013 -2015

- Refrigerated air dryers and other products received High-Tech Product Certification for the first time.
- Lingyu became the exclusive permanent co-organizer of the South China Air Compressor Exhibition.
- Shifted strategic focus toward mid-to-high-end products.
- Introduced "Craftsmanship" as a core concept for Lingyu's premium brand positioning.
- General Manager Yan was interviewed by Dongsheng TV on "Building the Brand, Caring for Employees."

EARLY DEVELOPMENT 2009 -2012

- Obtained the National Industrial Product Production License.
- Launched sheet metal and heat exchanger workshops and a new assembly workshop.
- Obtained a design patent for product design.
- Established the first regional office in Kunshan.
- Achieved ISO 9001 Quality Management System Certification.



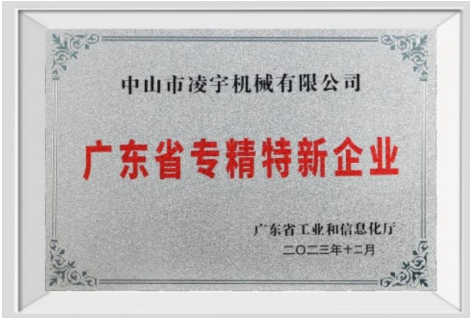
Creating a world-renwned brand



CORPORATE HONORS



High-Tech Enterprise



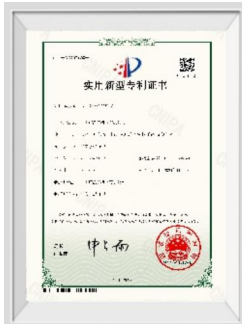
Specialized and Sophisticated Enterprise



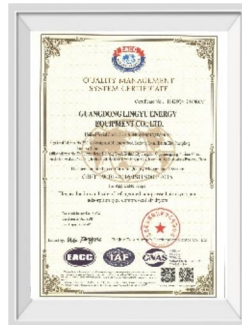
Credit Rating AAA Enterprise



AAA Quality Service Enterprise



Accumulated 30+ Patent Certificates



ISO 14001 Environmental Management System Certification,ISO 9001 Quality Management System Certification,ISO 45001 Occupational Health & Safety Management System Certification



GCCA Product Quality Safety Certificate(Refrigerated Air Dryer)



GCCA Product Quality Safety Certificate(Adsorption Air Dryer)



ADSORPTION COMPRESSED AIR DRYER CE CERTIFICATE



REFRIGERATED COMPRESSED AIR DRYER CE CERTIFICATE



COMBINED COMPRESSED AIR DRYER CE CERTIFICATE

Corporate Mission
To provide professional, comprehensive, and competitive solutions and services for compressed air purification and separation.

Corporate Vision
To become an industry leader and build a globally recognized brand.

Development Philosophy
Technology-Driven · Value-Oriented

Brand Values
Professional · Reliable · Service-Focused

Market & Sales Strategy
Win the market through premium-quality products and professional service.



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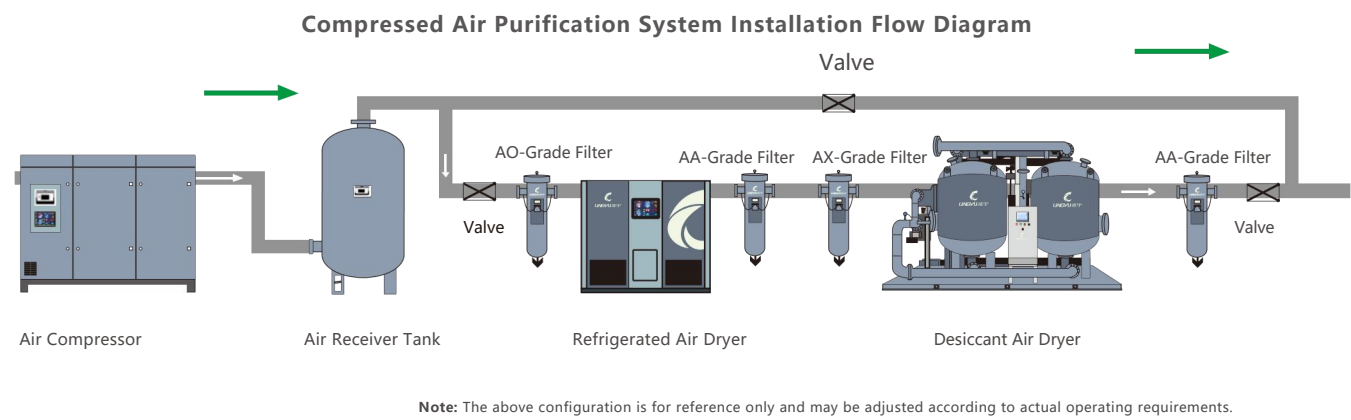
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01 Compressed air purification system

Compressed air is an essential source of power for industrial applications and production processes. To ensure reliable operation and prevent production downtime, compressed air must be clean, dry, and oil-free.

Compressed air is produced by compressing large volumes of ambient air, which naturally contains contaminants such as dust particles and moisture in the form of water vapor. When combined with oil introduced by the air compressor, these contaminants can form harmful and corrosive emulsions, leading to equipment failure, production downtime, and significant economic losses.



QUESTION 1:COMPRESSED AIR MOISTURE

■ Purification solutions:Refrigerated air dryer,desiccant air dryer,adsorption dryer

Types of Contamination

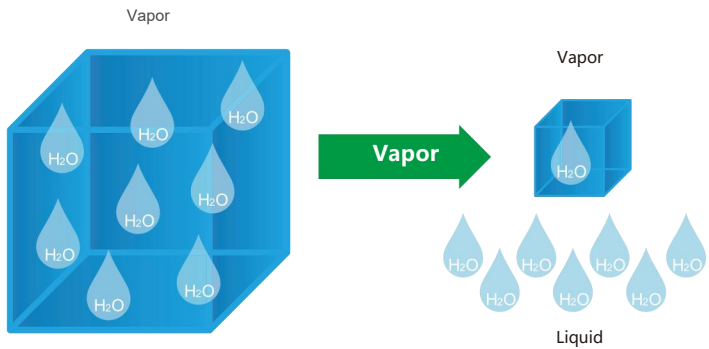
Liquid Water · Water Vapor

How Is the Contamination Formed?

When air is compressed, the amount of water contained per cubic meter increases.At any given temperature, air can hold only a limited amount of water vapor.As the air continues to be compressed, excess moisture condenses into liquid water.

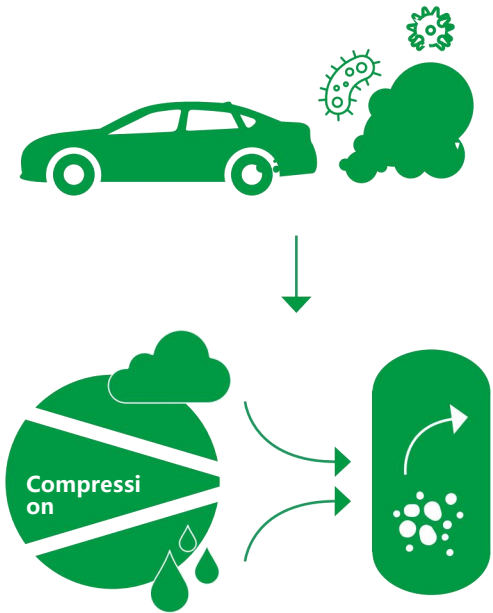
What Problems Can It Cause?

Pipeline corrosion
Reduced final product quality
Control system failures
Freezing



Problem 2: Oil Contamination in Compressed Air

■ Lingyu Solution: Refrigerated Air Dryers, Oil Removal Filters, Oil-Water Separators, High-Efficiency Oil Removal Systems, etc.



Types of Contamination: Liquid Oil · Oil Vapor

What Problems Can Oil Contamination Cause?

- Damage to production equipment, resulting in product defects, reduced productivity, and increased costs
- Air pollution, creating an unhealthy working environment
- Deposits and blockages in compressed air pipelines

How Is Oil Contamination Formed?

Oil-lubricated compressors may introduce lubricating oil into the compressed air system. In addition, oil vapors from vehicle exhaust and industrial emissions present in the ambient air can be drawn into the compressor and enter the compressed air system.

Problem 3: Solid Particle Contamination in Compressed Air

■ Lingyu Solution: Dust Removal Filters · Self-Cleaning Filters

Types of Contamination: Dust · Pipeline Contaminants

How Is the Contamination Formed?

Solid contaminants may come from airborne dust and particles drawn into the compressor, desiccant dust from adsorption dryers, and metal particles from compressed air pipelines.

What Problems Can It Cause?

Damage to production equipment, resulting in product defects, reduced productivity, and increased operating costs.



01 Compressed air purification system

What Is Saturated Air?

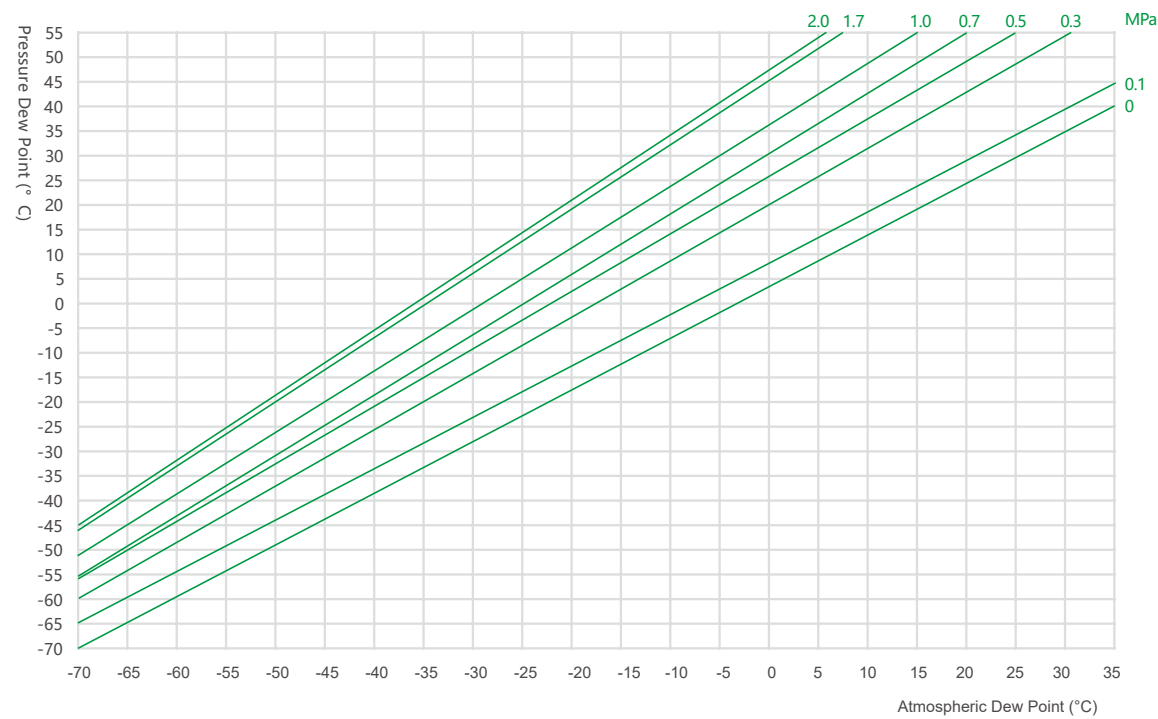
At a given temperature and pressure, there is a limit to the amount of water vapor that air can hold. When the water vapor content reaches the maximum possible level at a given temperature, the air is called saturated air. If the water vapor content is below this limit, the air is called unsaturated air.

Dew Point – Definition and Explanation

At a given air pressure, as the air temperature gradually decreases, the water vapor eventually reaches saturation and begins to condense into liquid water. The temperature at which condensation begins is called the dew point temperature at that pressure.

The dew point of moist air depends on its moisture content: the higher the moisture content, the higher the dew point; the lower the moisture content, the lower the dew point.

Pressure Dew Point (PDP) – Atmospheric Dew Point (ADP) Conversion Chart

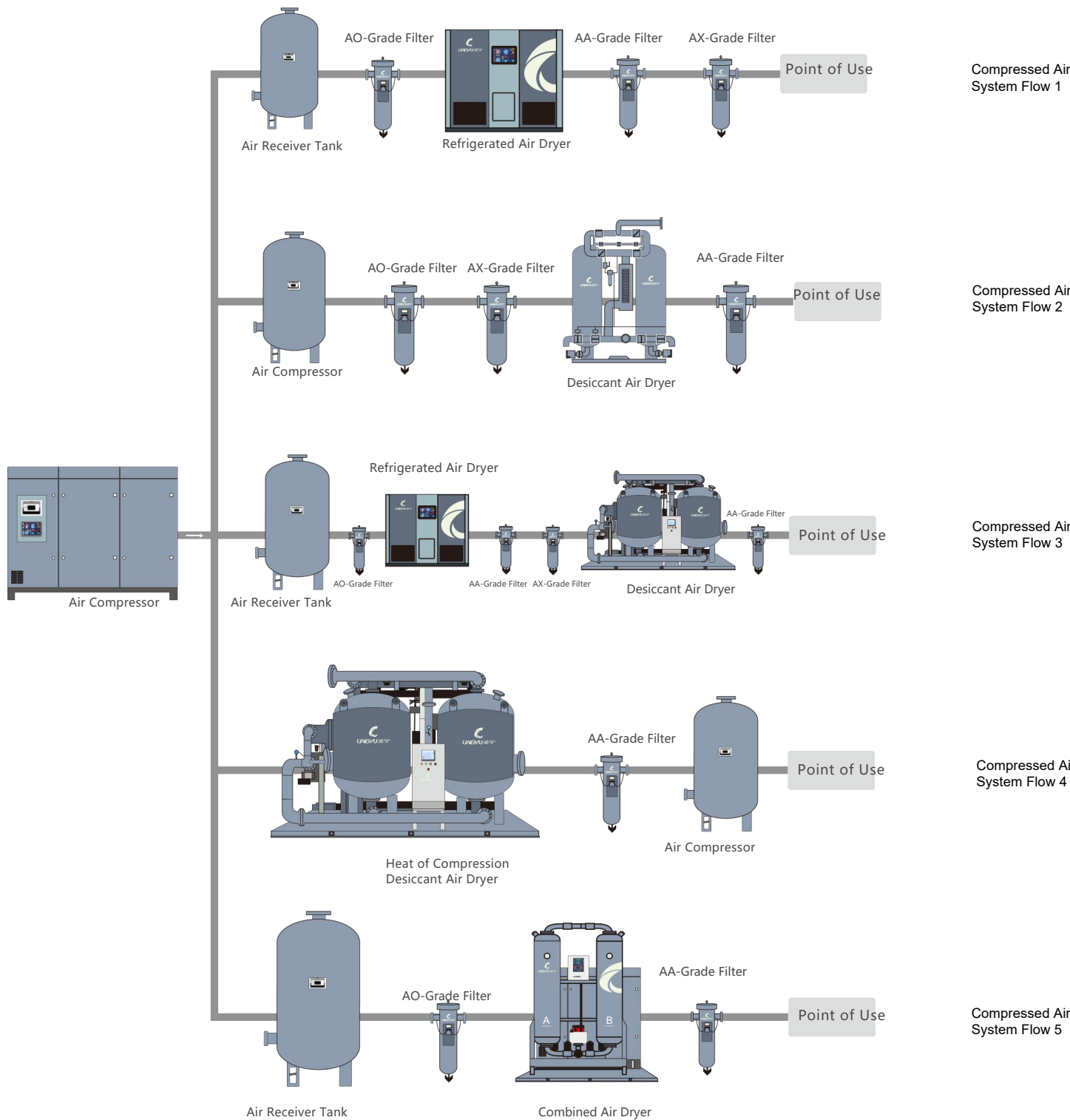


Atmospheric Dew Point vs. Moisture Content Chart

Dew Point (°C)	Moisture Content (g/m³)	Dew Point (°C)	Moisture Content (g/m³)	Dew Point (°C)	Moisture Content (g/m³)	Dew Point (°C)	Moisture Content (g/m³)	Dew Point (°C)	Moisture Content (g/m³)	Dew Point (°C)	Moisture Content (g/m³)
14	12.070	1	5.192	-12	2.0060	-25	0.7074	-38	0.2141	-51.1	0.0540
13	11.350	0	4.847	-13	1.8760	-26	0.6463	-39	0.1940	-53.9	0.0400
12	10.660	-1	4.523	-14	1.7360	-27	0.5922	-40	0.1757	-56.7	0.0290
11	10.010	-2	4.217	-15	1.6050	-28	0.5422	-41	0.1590	-59.4	0.0210
10	9.309	-3	3.930	-16	1.4830	-29	0.4960	-42	0.1438	-62.2	0.0140
9	8.819	-4	3.660	-17	1.3690	-30	0.4534	-43	0.1298	-65.0	0.0110
8	8.270	-5	3.4070	-18	1.2610	-31	0.4141	-44	0.1172	-67.8	0.0080
7	7.50	-6	3.1690	-19	1.1650	-32	0.3779	-45	0.1055	-70.6	0.0050
6	7.260	-7	2.9460	-20	1.0740	-33	0.3445	-46	0.0950	-73.3	0.0030
5	6.797	-8	2.7370	-21	0.9884	-34	0.3138	-47	0.0854		
4	6.360	-9	2.5410	-22	0.9093	-35	0.2856	-48	0.0768		
3	5.947	-10	2.3580	-23	0.8359	-36	0.2597	-49	0.0689		
2	5.559	-11	2.1860	-24	0.7678	-37	0.2359	-50	0.0617		



Air Compressor Station Purification System Process Flow Diagram



Note: The above configuration is for reference only and may be adjusted according to actual operating requirements.

02 Compressed air Refrigeration dryer

2.1 AH Series Air-Cooled High-Inlet-Temperature Refrigerated Air Dryer



Working Principle

High-temperature compressed air containing moisture and oil first enters the air-cooled pre-cooler and the air-to-air heat exchanger, where it is pre-cooled to reduce its temperature. It then passes through the air-to-refrigerant evaporator, where the compressed air is cooled to a dew point of 2–10°C. During cooling, moisture, oil, and some impurities condense and are separated from the compressed air by the gas-liquid separator. The condensate is then discharged through an automatic drain valve. Finally, the dry compressed air passes through the air-to-air heat exchanger, where it is reheated to near ambient temperature, providing clean, dry compressed air for downstream use.

Design Features

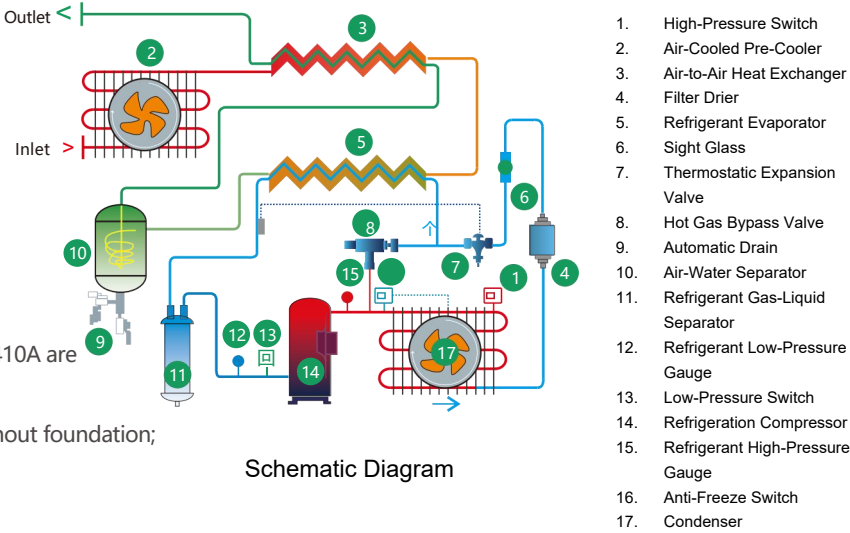
- High Stability**
Key heat exchangers are manufactured in-house. Refrigeration compressors are mainly sourced from well-known brands such as Panasonic, Copeland, Danfoss, and Hanbell, together with high-quality refrigeration components.
- High-Efficiency Moisture Separation**
Equipped with an independently designed, continuously upgraded water separation system to ensure high and reliable separation efficiency.
- Wide Operating Range**
Hydrophilic aluminum foil is used, while heat exchangers and pre-coolers are standard across the entire series, ensuring reliable operation even under demanding conditions.
- Intelligent Dual-Compressor Design**
Models from 5 to 180 m³/min feature a 1+1 dual-compressor configuration. The second compressor automatically starts or stops according to system load, improving energy efficiency and adapting to applications with significant fluctuations in air demand.
- High Customization Capability**
Custom colors and optional PLC control are available. Dry contacts, Modbus communication, IoT connectivity, and other functions can also be customized to meet specific customer requirements.

COMPRESSED AIR PURIFICATION,PROFESSIONAL
SOLUTIONS,RELIABLE SERVICE



Operating conditions and Technical requirements

- Rated Inlet Pressure: 0.7 MPa
- Operating range: 0.6–1.0 MPa; other working pressures available upon request
- Rated Inlet Temperature: 50°C
(Max. inlet temperature: ≤80°C)
- Pressure Dew Point: 2–10°C
- Rated Ambient Temperature: 32°C
(Operating range: 2–45°C)
- Pressure Drop: ≤0.025 MPa
- Cooling Method: Air-Cooled
- Refrigerant: R22
(Environmentally friendly refrigerants such as R407C and R410A are available upon request)
- Installation: Indoor installation on a level concrete floor without foundation; minimum clearance of 1.5 m around the unit.



Technical Parameter

Model	Air Flow Capacity (m³/min)	Power Supply (V/Hz)	Total Power (kW)	Air Inlet / Outlet	Weight (kg)	Dimensions (mm) (L × W × H)
LY-D10AC	1.5	220/50	0.68	G1"	49	680×440×710
LY-D20AC	2.5	220/50	0.83	G1"	58	800×440×800
LY-D30AH	3.8	220/50	1.10	G1.5"	104	980×500×930
LY-D50AH	6.5	220/50	1.50	G1.5"	129	1030×550×1000
LY-D75AH	10.5	220/50	2.20	G2"	177	1240×650×1150
LY-D100AH	13.5	380/50	3.10	G2.5"	215	1350×670×1300
LY-D120AH	17.0	380/50	3.10	G2.5"	222	1350×670×1300
LY-D150AH	21.5	380/50	5.20	DN80	283	1450×700×1510
LY-D180AH	25.0	380/50	5.20	DN80	310	1450×700×1510
LY-D200AH	28.5	380/50	5.50	DN80	334	1550×850×1595
LY-D250AH	32.0	380/50	6.20	DN80	406	1550×850×1595
LY-D300AH	37.0	380/50	7.80	DN100	524	1700×850×1740
LY-D350AH	41.5	380/50	7.80	DN100	600	1700×850×1740
LY-D400AH	45.0	380/50	10.0	DN100	630	1830×950×1840
LY-D450AH	50.0	380/50	10.0	DN100	680	1830×950×1840
LY-D500AH	55.0	380/50	11.7	DN125	714	2020×950×1850
LY-D550AH	60.0	380/50	11.7	DN125	830	2020×950×1850
LY-D600AH	65.0	380/50	11.9	DN125	950	2300×1300×1930
LY-D700AH	75.0	380/50	13.9	DN125	1050	2390×1395×1805
LY-D800AH	85.0	380/50	16.2	DN125	1200	2400×1420×1860
LY-D900AH	95.0	380/50	16.7	DN150	1350	3000×1550×2145
LY-D1100AH	110.0	380/50	19.7	DN150	1450	3100×1600×2180

Note: For air flow capacities above 110 m³/min, or for special requirements regarding specifications, materials, or operating temperatures, please contact our company or your authorized distributor for detailed technical information.

02 Compressed air Refrigeration dryer

2.2 WH Series Water-Cooled High-Inlet-Temperature Refrigerated Air Dryer



注：LY-D600WH（含）以上型号均为开放式外观

Working Principle

High-temperature compressed air containing moisture and oil first enters the water-cooled pre-cooler and air-to-air heat exchanger, where it is pre-cooled to reduce its temperature. It then passes through the air-to-refrigerant evaporator, where the compressed air is cooled to a dew point of 2–10°C.

During cooling, moisture, oil, and some impurities condense and are separated from the compressed air by the gas-liquid separator. The condensate is then discharged through an automatic drain valve.

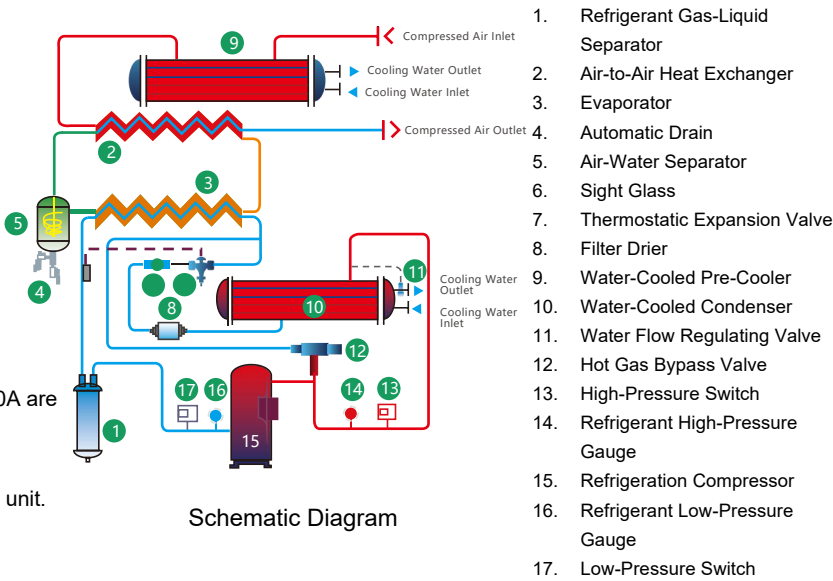
Finally, the dry compressed air passes through the air-to-air heat exchanger, where it is reheated to near ambient temperature, providing clean, dry compressed air for downstream use.

Design Features

- High Stability**
Key heat exchangers are manufactured in-house. Refrigeration compressors are mainly sourced from well-known brands such as Panasonic, Copeland, Danfoss, and Hanbell, together with high-quality refrigeration components.
- High-Efficiency Moisture Separation**
Equipped with an independently designed and continuously upgraded water separation system, ensuring reliable and efficient moisture removal.
- Wide Operating Range**
Hydrophilic aluminum foil is used, while heat exchangers and pre-coolers are standard across the entire series, ensuring reliable operation even under demanding conditions.
- Intelligent Dual-Compressor Design**
Models from 5 to 180 m³/min feature a 1+1 dual-compressor configuration. The second compressor automatically starts or stops according to system load, improving energy efficiency and adapting to applications with significant fluctuations in air demand.
- High Customization Capability**
Custom colors and optional PLC control are available. Dry contacts, Modbus communication, IoT connectivity, and other functions can also be customized to meet specific customer requirements.

Operating conditions and Technical requirements

- Rated Inlet Pressure: 0.7 MPa
(Operating range: 0.6–1.0 MPa; other working pressures available upon request)
- Rated Inlet Temperature: 50°C
(Max. inlet temperature: ≤80°C)
- Pressure Dew Point: 2–10°C
- Rated Ambient Temperature: 32°C
(Operating range: 2–45°C)
- Pressure Drop: ≤0.025 MPa
- Cooling Method: Water-Cooled
- Cooling Water Pressure: 0.2–0.4 MPa
- Cooling Water Temperature: ≤32°C
(Operating range: 2–38°C)
- Refrigerant: R22
(Environmentally friendly refrigerants such as R407C and R410A are available upon request)
- Installation: Indoor installation on a level concrete floor without foundation; maintain a minimum clearance of 1.5 m around the unit.



Technical Parameter

Model	Air Flow Capacity (m³/min)	Power Supply (V/Hz)	Total Power (kW)	Flow Rate (t/h)	Cooling Water Connection	Air Inlet / Outlet	Weight (kg)	Dimensions (mm) (L × W × H)
LY-D75WH	10.5	220/50	1.8	4.5	G1"	G2"	160	1240×650×1150
LY-D100WH	13.5	380/50	2.6	6.0	G1"	G2.5"	225	1350×670×1300
LY-D120WH	17.0	380/50	2.6	6.5	G1"	G2.5"	235	1350×670×1300
LY-D150WH	21.5	380/50	4.6	8.2	G1"	DN80	295	1450×700×1510
LY-D180WH	25.0	380/50	4.6	9.2	G1"	DN80	345	1450×700×1510
LY-D200WH	28.5	380/50	4.6	10.5	G1"/G1½"	DN80	430	1550×850×1595
LY-D250WH	32.0	380/50	5.4	11	G1½"	DN80	450	1550×850×1595
LY-D300WH	37.0	380/50	6.9	12	G1½"	DN100	550	1700×850×1740
LY-D350WH	41.5	380/50	6.9	12.5	G1½"	DN100	600	1700×850×1740
LY-D400WH	45.0	380/50	8.7	14.5	G1½"	DN100	630	1830×950×1840
LY-D450WH	50.0	380/50	8.7	15	G1½"	DN100	680	1830×950×1840
LY-D500WH	55.0	380/50	10.3	17.6	G2"	DN125	780	2020×950×1650
LY-D550WH	60.0	380/50	10.3	18.5	G2"	DN125	830	2020×950×1650
LY-D600WH	65.0	380/50	10.3	21	G2"	DN125	900	2250×1300×1595
LY-D700WH	75.0	380/50	11.6	23	G2"	DN125	1000	2180×1395×1625
LY-D800WH	85.0	380/50	13.8	27	G2"	DN125	1150	2280×1395×1625
LY-D900WH	95.0	380/50	15.5	29	G2"	DN150	1300	2450×1450×1766
LY-D1100WH	110.0	380/50	17.0	33	G2"	DN150	1400	2450×1540×1850
LY-D1200WH	120.0	380/50	19.2	35.5	G2"/G2½"	DN150	1500	2600×1540×1895
LY-D1400WH	140.0	380/50	20.4	45	G2½"	DN200	1750	2600×1750×1950
LY-D1600WH	160.0	380/50	23.9	52	G2½"	DN200	1950	2650×1950×2100

Note: For air flow capacities above 160 m³/min, or for special requirements regarding specifications, materials, or operating temperatures, please contact our company or your authorized distributor for detailed technical information.

02 Compressed air Refrigeration dryer

2.3.1 PD Series Plate Heat Exchanger Refrigerated Air Dryer



Working Principle

The PD Series Plate Heat Exchanger Refrigerated Air Dryer is developed on the basis of conventional shell-and-tube refrigerated air dryers and features an innovative 3-in-1 aluminum alloy plate heat exchanger that integrates the evaporator, air-to-air heat exchanger, and water separator into a single compact unit.

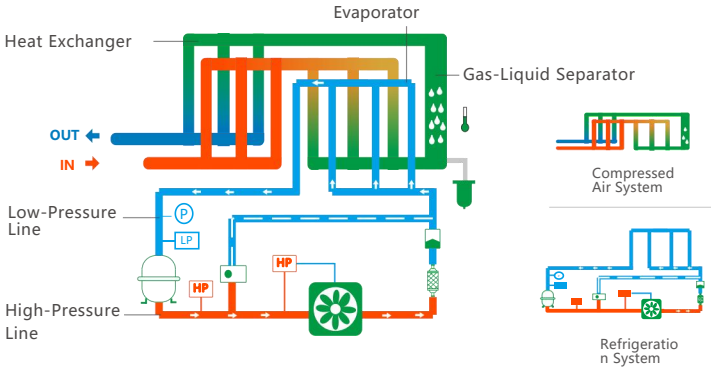
Compared with conventional shell-and-tube heat exchange systems, the aluminum alloy plate heat exchanger provides higher heat transfer efficiency. The temperature difference between the dryer inlet and outlet is maintained within 10°C, delivering a stable pressure dew point while achieving greater energy efficiency.

Design Features

- Low Energy Consumption**
The 3-in-1 plate heat exchanger design reduces overall energy consumption by approximately 20–30%.
- Low Pressure Drop**
The total pressure drop is less than 0.015 MPa, exceeding the requirements of applicable national standards.
- Environmentally Friendly & Durable**
The entire series uses environmentally friendly refrigerants R410A/R407C and is designed to meet international environmental requirements. Maximum working pressure is up to 1.6 MPa.
- Low Dew Point**
Under standard operating conditions, the pressure dew point can reach 2–10°C. An electronic bypass valve helps ensure stable system operation.
- High Stability**
An enlarged condenser design enhances overall system stability and enables reliable operation at higher inlet and ambient temperatures.
- Intelligent Control**
Equipped with an intelligent controller for fully automatic operation, temperature display, and a standard RS-485 communication interface.
- Upgraded Appearance**
A newly designed enclosure and panel structure provides a cleaner, more refined appearance.
- High-Quality Compressed Air**
The heat exchange system is constructed from aluminum alloy and/or stainless steel, preventing rust, debris, and secondary contamination of compressed air. This makes the dryer particularly suitable for applications in the pharmaceutical and food industries.

Operating conditions and Technical requirements

- Applicable Medium: Compressed Air / Non-Corrosive Air
- Rated Inlet Pressure: 0.7 MPa
(Operating range: 0.6–1.6 MPa; other pressure ratings available upon request)
- Rated Inlet Temperature: 42°C
(Max. inlet temperature: ≤45°C)
- Pressure Drop at Full Load: ≤0.015 MPa
- Outlet Pressure Dew Point: 2–10°C
- Rated Ambient Temperature: 35°C
(Operating range: 2–40°C)
- Cooling Method: Air-Cooled / Water-Cooled (Optional)



Technical Parameter Air-Cooled Type

Model	Air Flow Capacity (m³/min)	Power Supply (V/Hz)	Total Power (kW)	Air Inlet / Outlet	Dimensions (mm) (L × W × H)
LY-PD10A	1.6	220/50	0.7	RC1"	500×380×750
LY-PD20A	2.6	220/50	0.79	RC1"	500×380×750
LY-PD30A	3.8	220/50	0.9	RC1"-1½"	520×450×920
LY-PD50A	6.5	220/50	1.2	RC1"-1½"	520×450×920
LY-PD75A	10.5	220/50	2	RC2"	670×560×1060
LY-PD100A	13.5	220/50	2.22	RC2"	670×560×1060
LY-PD120A	17	220/50	2.8	RC2"-2½"	1200×700×1480
LY-PD150A	21.5	380/50	3.9	DN80	1460×700×1480
LY-PD180A	25	380/50	4.9	DN80	1480×740×1480
LY-PD200A	28.5	380/50	4.9	DN80	1480×740×1600
LY-PD250A	32	380/50	5.7	DN80	1480×740×1600
LY-PD300A	37	380/50	7.8	DN100	1640×840×1750
LY-PD400A	45	380/50	8.8	DN100	1640×840×1750
LY-PD500A	55	380/50	10.1	DN125	1740×840×1750
LY-PD600A	65	380/50	10.1	DN125	1890×840×1803
LY-PD700A	75	380/50	11.1	DN125	1980×950×2014
LY-PD800A	85	380/50	13.7	DN125	2220×950×2063

Technical Parameter Water-Cooled Type

Model	Air Flow Capacity (m³/min)	Power Supply (V/Hz)	Total Power (kW)	Air Inlet / Outlet	Dimensions (mm) (L × W × H)
LY-PD150W	21.5	380/50	2.8	DN80	1380×740×1450
LY-PD180W	25	380/50	3.6	DN80	1380×740×1430
LY-PD200W	28	380/50	3.6	DN80	1380×740×1540
LY-PD250W	32	380/50	4.2	DN80	1480×740×1540
LY-PD300W	37	380/50	6	DN100	1590×740×1550
LY-PD400W	45	380/50	6.6	DN100	1590×740×1550
LY-PD500W	55	380/50	7.6	DN125	1740×840×1700
LY-PD600W	65	380/50	7.6	DN125	1890×840×1753
LY-PD700W	75	380/50	8.5	DN125	1890×840×1753
LY-PD800W	85	380/50	10.2	DN125	2090×840×1753
LY-PD900W	95	380/50	11.3	DN150	2080×940×1763
LY-PD1100W	110	380/50	12.9	DN150	2280×940×1763
LY-PD1200W	120	380/50	14.7	DN150	2280×940×1763
LY-PD1400W	140	380/50	14.7	DN200	2000×1350×1863
LY-PD1600W	165	380/50	16.9	DN200	2200×1350×1863

Note: For air flow capacities above 165 m³/min, or for special requirements regarding specifications, materials, or operating temperatures, please contact our company or your authorized distributor for detailed technical information.

02 Compressed air Refrigeration dryer

2.3.2 DD Series Low-Pressure-Drop Refrigerated Air Dryer

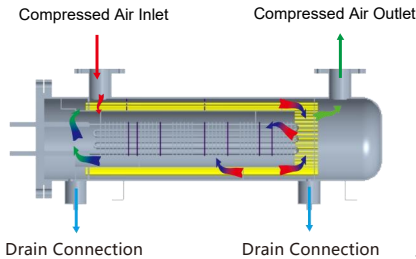


■ Design Features

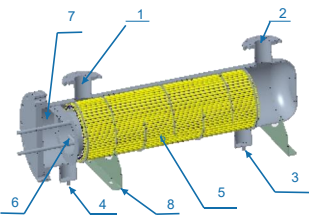
- **Ultra-Low Pressure Drop**
The pre-cooler features a newly designed annular tube configuration with approximately three times more tubes than conventional designs. The increased flow area significantly reduces air resistance, resulting in an overall pressure drop of less than 0.1 bar.
- **Low Dew Point**
An optimized integrated 3-in-1 design, combined with a unique water separation system, ensures a consistently low and stable pressure dew point.
- **Intelligent Control**
Equipped with a PLC and touchscreen as standard. The system automatically adjusts the compressor's refrigeration capacity according to the evaporator load, ensuring optimal and energy-efficient operation. An RS-485 communication interface is also included as standard.

■ Operating conditions and Technical requirements

- Applicable Medium: Compressed Air / Non-Corrosive Air
- Rated Inlet Pressure: 0.7 MPa
(Operating range: 0.6–1.0 MPa; other pressure ratings available upon request)
- Rated Inlet Temperature: 45°C
(Max. inlet temperature: ≤80°C)
- Pressure Drop at Full Load: <0.01 MPa
- Outlet Pressure Dew Point: 2–10°C
- Rated Ambient Temperature: 35°C
(Operating range: 2–45°C)
- Cooling Method: Air-Cooled / Water-Cooled (Optional)



Compressed Air Flow Path Diagram



1.Compressed Air Inlet 2.Compressed Air Outlet 3.Pre-Stage Drain Outlet 4.Post-Stage Drain Outlet 5.Pre-Cooling / Reheating Heat Exchanger 6.Refrigeration Evaporator 7.New-Generation Gravity Water Separator 8.Mounting Feet

Assembly Structure Diagram

■ Design Principle

- The evaporator core is positioned at the center of the integrated heat exchanger assembly, effectively minimizing cooling loss and providing greater cooling capacity to the pre-cooler.
- The newly designed integrated water separator provides highly efficient gas-liquid separation, ensuring effective removal of condensed moisture. Combined with a multi-layer 304 stainless steel wire mesh, it further enhances filtration and separation performance, delivering clean, dry compressed air.

■ Technical Specifications

Model	Air Flow Capacity (m³/min)	Total Power (kW)	Connection Size	Weight (kg)	Dimensions (mm) (L × W × H)
LY-DD30A	3.8	1.50	G1½"	202	1000x600x 1050
LY-DD50A	6.5	2.50	G1½"	222	1100x600x 1100
LY-DD75A	10.5	2.70	G2"	276	1250x700x 1155
LY-DD100A/W	13.5	3.20	G2½"	326/320	1400x800x 1200
LY-DD120A/W	17.0	4.90	DN80	358/352	1500x950x 1400
LY-DD150A/W	21.5	5.05	DN80	365/359	1450x800x 1200
LY-DD180A/W	25.0	5.20	DN80	486/473	1650x940x 1480
LY-DD200A/W	28.5	6.50	DN80	490/477	1650x940x 1480
LY-DD250A/W	32.0	6.95	DN80	505/492	1650x940x 1480
LY-DD300A/W	37.0	9.80	DN100	655/642	1900x980x 1580
LY-DD400A/W	45.0	9.80	DN100	657/639	1900x980x 1580
LY-DD500A/W	55.0	12.30	DN125	842/824	2100x1000x1700
LY-DD600A/W	65.0	14.50	DN125	842/827	2100x1000x1700
LY-DD700A/W	75.0	18.50	DN125	1150/1125	2400x1100x1650
LY-DD800A/W	85.0	18.80	DN125	1370/1345	2400x1100x1650
LY-DD900A/W	95.0	23.50	DN150	1680/1655	2450 × 1200 × 2250
LY-DD1100A/W	110.0	28.50	DN150	1850/1825	2450 × 1200 × 2250
LY-DD1200A/W	120.0	28.50	DN150	1890/1865	2450 × 1200 × 2250

Note: For air flow capacities above 120 m³/min, or for special requirements regarding specifications, materials, or operating temperatures, please contact our company or your authorized distributor for detailed technical information.

02 Compressed air Refrigeration dryer

2.3.3 PB Series Dual-Effect Energy-Saving Variable-Frequency Refrigerated Air Dryer



Design Features

- Pre-Cooler**
The pre-cooler reduces the temperature of high-temperature compressed air. To achieve high heat transfer efficiency within a compact structure, a plate-fin heat exchanger is used. Its aluminum alloy construction provides excellent thermal conductivity, high heat transfer efficiency, and a compact design.
- High-Performance 3-in-1 Plate Heat Exchanger**
A specially engineered 3-in-1 plate heat exchanger has been developed for this series. It features a low pressure drop and large heat transfer area, with more than 30% greater heat transfer area than conventional 3-in-1 plate heat exchangers of the same air flow capacity.
- Variable-Frequency Control System**
The control program is specially optimized for this series, providing high control accuracy, fast response, and comprehensive real-time monitoring. Parameters monitored include compressed air inlet and outlet temperatures, pressure dew point, compressed air pressure, evaporation temperature, condensing temperature, suction temperature, evaporation pressure, condensing pressure, and refrigerant discharge temperature. An RS-485 communication interface is standard across the entire series.
- Variable-Frequency Compressor**
For enhanced operating stability, the entire series is equipped with Mitsubishi permanent-magnet DC inverter compressors. These compressors feature smooth operation, a wide frequency range, and low noise. The internal rotor is treated with an anti-wear coating, ensuring stable output even at ultra-high operating speeds.

Operating conditions and Technical requirements

- Applicable Medium: Compressed Air / Non-Corrosive Air
- Inlet Temperature: ≤60°C
- Pressure Dew Point: 2–8°C
- Operating Pressure: 0.6–1.0 MPa
- Ambient Temperature: ≤42°C
(The unit can continue operating without shutdown at ambient temperatures above 42°C and below 45°C.)
- Pressure Drop: ≤0.13 bar
- Energy Consumption: 0.08–0.18 kW·h/m³
(At inlet temperatures of 35–60°C and ambient temperatures of 30–42°C)

Design schematic

- The compressed air first enters the pre-cooler for initial cooling, and then passes through the pre-cooling/reheating section of the high-performance 3-in-1 plate heat exchanger for further cooling. It subsequently enters the evaporator section, where it is rapidly cooled and the condensed moisture is separated. The treated low-temperature compressed air then returns to the pre-cooling/reheating heat exchanger, where it exchanges heat with the incoming hot compressed air. This reheats the dry compressed air before it is discharged from the dryer. The refrigeration system precisely adjusts the compressor speed according to changes in system load. The operating frequency is automatically regulated to match the actual air treatment demand, ensuring stable and energy-efficient operation.

Technical Parameter

PB Series Air-Cooled Models for Compressed Air Sales Applications						
Model	Air Flow Capacitym³/min	Input Power(kW)	Connection Size	Weight(kG)	Dimensions(mm)LxWxH	
LY-PB200AH	28.5	1.5-5.8	DN80	310	1500x950x 1600	
LY-PB250AH	32.0	1.52-6.2	DN80	340	1500x950x 1600	
LY-PB300AH	37.0	2.1-7.8	DN100	420	1750x1050x 1825	
LY-PB400AH	45.0	2.5-9.2	DN100	460	1750x1050x 1825	
LY-PB500AH	55.0	3.1-10.5	DN125	530	2100 × 1050 ×2000	
LY-PB600AH	65.0	3.5-11.8	DN125	585	2100 × 1050 ×2000	
LY-PB700AH	75.0	3.8-14.5	DN125	690	2200 × 1200 ×2180	
LY-PB800AH	85.0	4.2-15.8	DN125	720	2200 × 1200 ×2180	
LY-PB900AH	90.0	5.0-18.5	Dn150	810	2400 × 1400 ×2410	
LY-PB1000AH	100.0	6.2-21.5	DN150	855	2400 × 1400 ×2410	
LY-PB1100AH	110.0	6.5-23.5	DN150	890	2400 × 1400 ×2410	
LY-PB1200AH	120.0	7.0-24.5	DN150	925	2400 × 1400 ×2410	

Note: For air flow capacities above 120 m³/min, or for special requirements regarding specifications, materials, or operating temperatures, please contact our company or your authorized distributor for detailed technical information.

Technical Parameter

PB Series Normal-Temperature Air-Cooled / Water-Cooled Models						
Model	Air Flow Capacitym³/min	Input Power(kW)	Connection Size	Weight(kG)	Dimensions(mm)LxWxH	
LY-PB100AN/WN	13.5	1.1-3.5	DN65	220/230	1250x800x 1400	
LY-PB120AN/WN	17.5	1.25-4.2	DN65	245/255	1400x800x 1600	
LY-PB150AN/WN	22.0	1.4-5.1	DN80	255/265	1400x800x 1600	
LY-PB200AN/WN	28.5	1.5-5.8	DN80	280/280	1500x950x 1600	
LY-PB250AN/WN	32.0	1.52-6.2	DN80	295/310	1500x950x 1600	
LY-PB300AN/WN	37.0	2.1-7.8	DN100	350/365	1750x1050x 1825	
LY-PB400AN/WN	45.0	2.5-9.2	DN100	380/390	1750x1050x 1825	
LY-PB500AN/WN	55.0	3.1-10.5	DN125	450/465	2100 × 1050 ×2000	
LY-PB600AN/WN	65.0	3.5-11.8	DN125	480/490	2100 × 1050 ×2000	
LY-PB700AN/WN	75.0	3.8-14.5	DN125	580/585	2200 × 1200 ×2180	
LY-PB800AN/WN	85.0	4.2-15.8	DN125	610/620	2200 × 1200 ×2180	
LY-PB900AN/WN	90.0	5.0-18.5	DN150	715/730	2400 × 1400 ×2410	
LY-PB1000AN/WN	100.0	6.2-21.5	DN150	750/770	2400 × 1400 ×2410	
LY-PB1100AN/WN	110.0	6.5-23.5	DN150	780/820	2400 × 1400 ×2410	
LY-PB1200AN/WN	120.0	7.0-24.5	DN150	810/850	2400 × 1400 ×2410	

Note: For air flow capacities above 120 m³/min, or for special requirements regarding specifications, materials, or operating temperatures, please contact our company or your authorized distributor for detailed technical information.

07 Project Cases

Partial projects

Project Reference 1: Class 1 Energy-Efficient Compressed Air Station Project for a Semiconductor Company (Actual Site Photo of the Compressor Station)									
	<table><tr><td>Project Scale</td><td>6 × 150 m³/min Units</td></tr><tr><td>System Configuration</td><td>Zero-Air-Loss Heat-of-Compression (HOC) Regenerative Adsorption Dryers</td></tr><tr><td>Project Requirements</td><td>Meet Class 1 Energy Efficiency Standards and provide 200 million m³ of clean, oil-free, low-dew-point compressed air. Six 150 m³/min zero-air-loss HOC regenerative adsorption dryers were supplied, featuring:</td></tr><tr><td>Proposed Solution</td><td> - Class 1 energy-efficient operation and intelligent monitoring - High-performance pneumatic butterfly valves - Advanced automatic control system - High-quality adsorbent with sufficient filling capacity </td></tr></table>	Project Scale	6 × 150 m³/min Units	System Configuration	Zero-Air-Loss Heat-of-Compression (HOC) Regenerative Adsorption Dryers	Project Requirements	Meet Class 1 Energy Efficiency Standards and provide 200 million m³ of clean, oil-free, low-dew-point compressed air. Six 150 m³/min zero-air-loss HOC regenerative adsorption dryers were supplied, featuring:	Proposed Solution	- Class 1 energy-efficient operation and intelligent monitoring - High-performance pneumatic butterfly valves - Advanced automatic control system - High-quality adsorbent with sufficient filling capacity
Project Scale	6 × 150 m³/min Units								
System Configuration	Zero-Air-Loss Heat-of-Compression (HOC) Regenerative Adsorption Dryers								
Project Requirements	Meet Class 1 Energy Efficiency Standards and provide 200 million m³ of clean, oil-free, low-dew-point compressed air. Six 150 m³/min zero-air-loss HOC regenerative adsorption dryers were supplied, featuring:								
Proposed Solution	- Class 1 energy-efficient operation and intelligent monitoring - High-performance pneumatic butterfly valves - Advanced automatic control system - High-quality adsorbent with sufficient filling capacity								
Project Reference 2: A Foundry Co., Ltd. (Actual Interior View of the Compressed Air Station)									
	<table><tr><td>Project Scale</td><td>10 × 65 m³/min Units</td></tr><tr><td>System Configuration</td><td>Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers</td></tr><tr><td>Project Requirements</td><td>Project Requirements:Safe, reliable, fully automated operation with integration into the central control system and MES. Performance:Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: 0% Ten 65 m³/min zero-air-loss blower-heated dryers were supplied, featuring:</td></tr><tr><td>Proposed Solution</td><td> - High-performance pneumatic butterfly valves - High-quality adsorbent - Optimized airflow distribution - Dew-point and time-based control modes - Siemens touchscreen and Schneider electrical components - Integrated oil-water separation and high-efficiency filtration </td></tr></table>	Project Scale	10 × 65 m³/min Units	System Configuration	Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers	Project Requirements	Project Requirements: Safe, reliable, fully automated operation with integration into the central control system and MES. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: 0% Ten 65 m³/min zero-air-loss blower-heated dryers were supplied, featuring:	Proposed Solution	- High-performance pneumatic butterfly valves - High-quality adsorbent - Optimized airflow distribution - Dew-point and time-based control modes - Siemens touchscreen and Schneider electrical components - Integrated oil-water separation and high-efficiency filtration
Project Scale	10 × 65 m³/min Units								
System Configuration	Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers								
Project Requirements	Project Requirements: Safe, reliable, fully automated operation with integration into the central control system and MES. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: 0% Ten 65 m³/min zero-air-loss blower-heated dryers were supplied, featuring:								
Proposed Solution	- High-performance pneumatic butterfly valves - High-quality adsorbent - Optimized airflow distribution - Dew-point and time-based control modes - Siemens touchscreen and Schneider electrical components - Integrated oil-water separation and high-efficiency filtration								
Project Reference 3: A Photovoltaic Technology Co., Ltd. (Actual Site Photo of the Compressed Air Station)									
	<table><tr><td>Project Scale</td><td>8×220 m³/min Units</td></tr><tr><td>System Configuration</td><td>Low-Purge Blower-Heated Regenerative Adsorption Dryers</td></tr><tr><td>Project Requirements</td><td>Project Requirements:High efficiency, energy savings, safe and reliable operation, easy maintenance, and an attractive design. Performance:Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: ≤3% Eight customized 220 m³/min low-purge blower-heated regenerative adsorption dryers, featuring:</td></tr><tr><td>Proposed Solution</td><td> - High-performance pneumatic butterfly valves - High-quality adsorbent - Optimized airflow distribution and advanced control system - Approx. 8% energy savings compared with conventional heated-purge dryers - Excellent moisture removal and stable dew-point performance </td></tr></table>	Project Scale	8×220 m³/min Units	System Configuration	Low-Purge Blower-Heated Regenerative Adsorption Dryers	Project Requirements	Project Requirements: High efficiency, energy savings, safe and reliable operation, easy maintenance, and an attractive design. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: ≤3% Eight customized 220 m³/min low-purge blower-heated regenerative adsorption dryers, featuring:	Proposed Solution	- High-performance pneumatic butterfly valves - High-quality adsorbent - Optimized airflow distribution and advanced control system - Approx. 8% energy savings compared with conventional heated-purge dryers - Excellent moisture removal and stable dew-point performance
Project Scale	8×220 m³/min Units								
System Configuration	Low-Purge Blower-Heated Regenerative Adsorption Dryers								
Project Requirements	Project Requirements: High efficiency, energy savings, safe and reliable operation, easy maintenance, and an attractive design. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: ≤3% Eight customized 220 m³/min low-purge blower-heated regenerative adsorption dryers, featuring:								
Proposed Solution	- High-performance pneumatic butterfly valves - High-quality adsorbent - Optimized airflow distribution and advanced control system - Approx. 8% energy savings compared with conventional heated-purge dryers - Excellent moisture removal and stable dew-point performance								

Project Reference 4: Compressed Air Dryer Retrofit Project for an Electrical Appliance Group Co., Ltd. (Actual Site Photo of the Compressed Air Station)									
	<table><tr><td>Project Scale</td><td>4 × 85 m³/min Units</td></tr><tr><td>System Configuration</td><td>Dual-Efficiency Energy-Saving Refrigerated Air Dryers (Water-Cooled)</td></tr><tr><td>Project Requirements</td><td>Project Requirements:Four energy-efficient dryers to reduce system pressure drop and overall energy consumption. Performance:Pressure Dew Point: 2-10°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm Four 85 m³/min dual-efficiency refrigerated air dryers, combining low pressure drop and variable-frequency technology.</td></tr><tr><td>Proposed Solution</td><td> - Variable-frequency operation adjusts automatically according to air demand - Terminal pressure increased from 6.45 bar to 6.8 bar - Overall energy savings of approximately 39% - Mitsubishi variable-frequency compressor and electronic expansion valve - Patented low-pressure-drop design - Intelligent touchscreen control with RS-485 communication </td></tr></table>	Project Scale	4 × 85 m³/min Units	System Configuration	Dual-Efficiency Energy-Saving Refrigerated Air Dryers (Water-Cooled)	Project Requirements	Project Requirements: Four energy-efficient dryers to reduce system pressure drop and overall energy consumption. Performance: Pressure Dew Point: 2-10°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm Four 85 m³/min dual-efficiency refrigerated air dryers, combining low pressure drop and variable-frequency technology.	Proposed Solution	- Variable-frequency operation adjusts automatically according to air demand - Terminal pressure increased from 6.45 bar to 6.8 bar - Overall energy savings of approximately 39% - Mitsubishi variable-frequency compressor and electronic expansion valve - Patented low-pressure-drop design - Intelligent touchscreen control with RS-485 communication
Project Scale	4 × 85 m³/min Units								
System Configuration	Dual-Efficiency Energy-Saving Refrigerated Air Dryers (Water-Cooled)								
Project Requirements	Project Requirements: Four energy-efficient dryers to reduce system pressure drop and overall energy consumption. Performance: Pressure Dew Point: 2-10°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm Four 85 m³/min dual-efficiency refrigerated air dryers, combining low pressure drop and variable-frequency technology.								
Proposed Solution	- Variable-frequency operation adjusts automatically according to air demand - Terminal pressure increased from 6.45 bar to 6.8 bar - Overall energy savings of approximately 39% - Mitsubishi variable-frequency compressor and electronic expansion valve - Patented low-pressure-drop design - Intelligent touchscreen control with RS-485 communication								
Project Reference 5: An Energy Storage Technology Co., Ltd. (Actual Interior View of the Compressed Air Station)									
	<table><tr><td>Project Scale</td><td>6 × 50 m³/min Units</td></tr><tr><td>System Configuration</td><td>Stainless Steel Low-Purge Blower-Heated Regenerative Adsorption Dryers</td></tr><tr><td>Project Requirements</td><td>Project Requirements:Safe, stable, and reliable dryers with an advanced control system. Performance:Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: ≤3% Six 50 m³/min stainless steel blower-heated adsorption dryers, featuring:</td></tr><tr><td>Proposed Solution</td><td> - High-performance hard-seated pneumatic butterfly valves - High-quality adsorbent for stable dew-point performance - Optimized airflow distribution - Comprehensive temperature and pressure monitoring 7-inch touchscreen with international-brand electrical components - Stainless steel construction </td></tr></table>	Project Scale	6 × 50 m³/min Units	System Configuration	Stainless Steel Low-Purge Blower-Heated Regenerative Adsorption Dryers	Project Requirements	Project Requirements: Safe, stable, and reliable dryers with an advanced control system. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: ≤3% Six 50 m³/min stainless steel blower-heated adsorption dryers, featuring:	Proposed Solution	- High-performance hard-seated pneumatic butterfly valves - High-quality adsorbent for stable dew-point performance - Optimized airflow distribution - Comprehensive temperature and pressure monitoring 7-inch touchscreen with international-brand electrical components - Stainless steel construction
Project Scale	6 × 50 m³/min Units								
System Configuration	Stainless Steel Low-Purge Blower-Heated Regenerative Adsorption Dryers								
Project Requirements	Project Requirements: Safe, stable, and reliable dryers with an advanced control system. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: ≤3% Six 50 m³/min stainless steel blower-heated adsorption dryers, featuring:								
Proposed Solution	- High-performance hard-seated pneumatic butterfly valves - High-quality adsorbent for stable dew-point performance - Optimized airflow distribution - Comprehensive temperature and pressure monitoring 7-inch touchscreen with international-brand electrical components - Stainless steel construction								
Project Reference 6: An Aluminum Industry Co., Ltd. (Actual Site Photo of the Compressed Air Station)									
	<table><tr><td>Project Scale</td><td>6 × 110 m³/min Units</td></tr><tr><td>System Configuration</td><td>Zero-Air-Loss Heat-of-Compression + Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers</td></tr><tr><td>Project Requirements</td><td>Project Requirements:High efficiency, energy savings, safe and reliable operation, easy maintenance, and attractive appearance. Performance:Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: 0% Customized 110 m³/min zero-air-loss HOC and blower-heated regenerative adsorption dryers, featuring:</td></tr><tr><td>Proposed Solution</td><td> - Multi-point temperature monitoring for control and protection - Multi-point pressure monitoring for safe and reliable operation - Local/Remote control modes - Time-Based/Dew-Point-Based control modes </td></tr></table>	Project Scale	6 × 110 m³/min Units	System Configuration	Zero-Air-Loss Heat-of-Compression + Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers	Project Requirements	Project Requirements: High efficiency, energy savings, safe and reliable operation, easy maintenance, and attractive appearance. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: 0% Customized 110 m³/min zero-air-loss HOC and blower-heated regenerative adsorption dryers, featuring:	Proposed Solution	- Multi-point temperature monitoring for control and protection - Multi-point pressure monitoring for safe and reliable operation - Local/Remote control modes - Time-Based/Dew-Point-Based control modes
Project Scale	6 × 110 m³/min Units								
System Configuration	Zero-Air-Loss Heat-of-Compression + Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers								
Project Requirements	Project Requirements: High efficiency, energy savings, safe and reliable operation, easy maintenance, and attractive appearance. Performance: Pressure Dew Point: ≤-40°C, Oil Content: ≤0.01 ppm, Particle Size: ≤1 μm, Regeneration Air Consumption: 0% Customized 110 m³/min zero-air-loss HOC and blower-heated regenerative adsorption dryers, featuring:								
Proposed Solution	- Multi-point temperature monitoring for control and protection - Multi-point pressure monitoring for safe and reliable operation - Local/Remote control modes - Time-Based/Dew-Point-Based control modes								

07 Project Cases

Cases



Project Client New Energy Materials
Machine Model 2 Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers + 3 Refrigerated Air Dryers + 350 m³/h Nitrogen Generator



Project Client Cement Industry
Machine Model 5 × 45 m³/min Refrigerated Air Dryers



Project Client Pharmaceutical Co., Ltd.
Machine Model 4 × 28.5 m³/min Refrigerated Air Dryers + Modular Adsorption Dryers



Project Client Petrochemical Industry
Machine Model 4 × 40 m³/min CCS-Certified Adsorption Dryers



Project Client New Energy Materials
Machine Model 9 × 200 m³/min Blower-Heated Regenerative Adsorption Dryers



Project Client New Energy Industry
Machine Model 8 × 95 m³/min Stainless Steel Adsorption Dryers



Project Client Petrochemical Industry
Machine Model 8 × 250 m³/min WH Series Refrigerated Air Dryers



Project Client Power Plant
Machine Model 2 × 75 m³/min Modular Adsorption Dryers



Project Client Overseas Market
Machine Model 5 Refrigerated Air Dryers + Nitrogen Generators

● Petrochemical Industry ● New Energy Vehicle Industry ● Machinery Manufacturing Industry ● Metallurgy & Steelmaking Industry



Project Client A Foreign-Invested Electromechanical Company
Machine Model 50 × 50 m³/min Modular Adsorption Dryers



Project Client New Energy Industry
Machine Model 3 Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers + 4 Stainless Steel Combined Air Dryers



Project Client New Energy Industry
Machine Model 5 Sets of Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers + Refrigerated Air Dryers



Project Client New Energy Industry
Machine Model 12 × 220 m³/min Low-Purge Blower-Heated Regenerative Adsorption Dryers



Project Client Chemical Industry
Machine Model 6 × 32 m³/min Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers + Refrigerated Air Dryers



Project Client Advanced Materials Industry
Machine Model 5 × 55 m³/min AH Series Refrigerated Air Dryers



Project Client Pharmaceutical Industry
Machine Model 3 × 85 m³/min Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers



Project Client Pharmaceutical & Food Industry
Machine Model 10 × 45 m³/min Energy-Efficient Refrigerated Air Dryers + Blower-Heated Regenerative Adsorption Dryers



Project Client Food Industry
Machine Model 4 × 45 m³/min Zero-Air-Loss Blower-Heated Regenerative Adsorption Dryers (40 bar)

● Electronic Components Industry ● Defense Manufacturing Industry ● Textile Dyeing & Printing Industry ● Pharmaceutical & Food Industry

08 our services

LINGYU Services



Professional & Efficient



Committed to Improving Customer Satisfaction



Nationwide Coverage Rapid Response

Service Scope

- Free after-sales technical consultation
- Commissioning, repair, and maintenance of Lingyu
- equipment under warranty
- On-site inspection and customized maintenance solutions for
- out-of-warranty Lingyu equipment and other brands

Comprehensive Spare Parts Supply

- Refrigerated Air Dryer Parts**
Fans, compressors, condensers, evaporators, filter driers, expansion valves, bypass valves, pressure gauges, various drain valves, etc.
- Adsorption Dryer Parts**
Valves, electrical control boxes, adsorbents, diffusers, silencers, solenoid valves, check valves, etc.
- Other Spare Parts**
Various filter elements, differential pressure gauges, etc.

Service industry and customers

Electronics Industry						
Power Industry						
Home Appliance Industry						
Aerospace Industry						
Steel Industry						
Machinery Industry						
Automotive Industry						
Lithium Battery Industry						

Note: The companies listed above include both existing customers and prospective customers with upcoming cooperation.