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Official Website

The technical parameters and illustrations in this brochure are for reference only. Actual products may vary.
LINGYU Energy Equipment Co., Ltd. reserves the right to modify the design and specifications without prior notice.
Please refer to the actual product.



ENERGY-EFFICIENT. PURE AIR.

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

Professional service provider in the field of compressed air purification and separation

ABOUT US

Guangdong Lingyu Energy Equipment Co., Ltd.



Note: The above images show the head office, factory, and R&D center.



Established in **2009** in Guangdong Province, China.



National High-Tech Enterprise, National Specialized and Sophisticated "Little Giant" Enterprise, Guangdong Provincial Specialized and Sophisticated SME, and a qualified supplier for state-owned enterprises.



Industry benchmark enterprise, member of multiple industry associations, with **30+** patented technologies.



Achieved annual sales exceeding RMB **100 million** in 2021, maintaining an average annual growth rate of over **25%** for three consecutive years.



A professional manufacturer integrating R&D, production, sales, and after-sales service for compressed air purification systems.



Jointly established Industry-University-Research Laboratories with South China University of Technology and Xi'an Jiaotong University.



Governing member of the Compressed Air Purification Equipment Branch of China General Machinery Industry Association.



Manufacturing base covering **40,000 m²**, with a workforce of more than **300** employees.



Comprehensive domestic and international sales network, supported by dedicated domestic sales, overseas sales, and after-sales service teams, with **40+** sales and service centers nationwide.

LINGYU CORE VALUES



SUSTAINABILITY



WIN-WIN
COOPERATION



INTEGRITY



INNOVATION

DEVELOPMENT MILESTONES



2022-PRESENT | STRATEGIC EXPANSION

1. Joined the Foshan Hydrogen Energy Industrial Park and established the Hydrogen Energy Equipment Manufacturing Base.
2. Jointly founded the Hydrogen Energy Equipment Research Institute with Xi'an Jiaotong University.
3. Collaborated with South China University of Technology to establish the Hydrogen Energy Integrated Laboratory.
4. Recognized as a National Specialized and Sophisticated "Little Giant" Enterprise.
5. Awarded the Third Prize of the Guangdong Provincial Machinery Industry Science & Technology Award.
6. Received the Third Prize of Guangdong Manufacturing Innovation & Entrepreneurship Competition ("Maker Guangdong").
7. New manufacturing facility covering 40,000 m² officially commenced operation, significantly expanding production capacity.



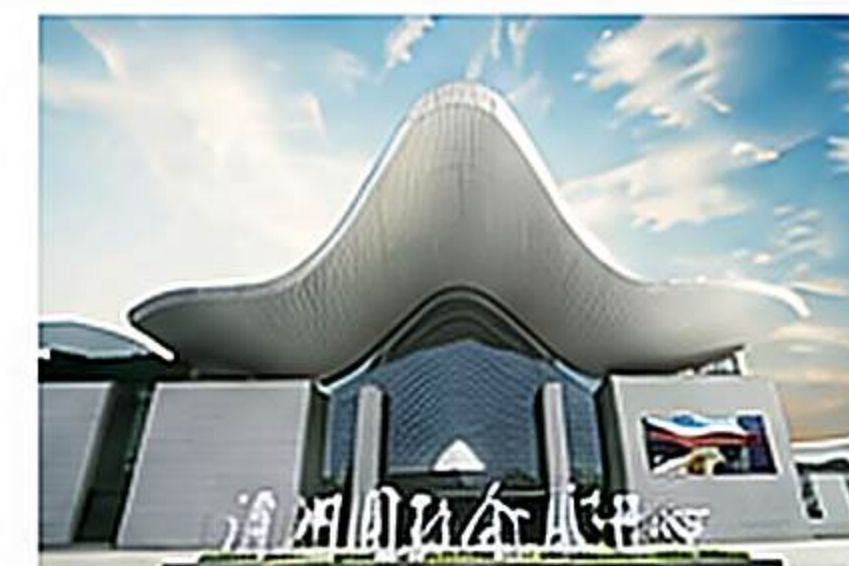
2019-2021 | QUALITY EXCELLENCE

1. Increased investment in R&D and accelerated market expansion.
2. Certified as a Guangdong Provincial Specialized and Sophisticated SME.
3. Annual sales exceeded RMB 100 million in 2021.
4. Featured on CCTV's "Brand Power" Program.
5. Air dryers and filters successfully passed Quality & Safety Certification.
6. Comprehensive implementation of the ERP management system.



2016-2018 | TRANSFORMATION & UPGRADING

1. Successfully developed the industry's first energy-efficient compressed air purification technology.
2. Products were featured by CCTV's "Craftsmanship" Program.
3. Expanded product portfolio with over 20 proprietary technologies.
4. Refrigerated air dryers received Guangdong High-Tech Product Certification.
5. Established an independent Sales & Service Center.



2013-2015 | RAPID GROWTH

1. Refrigerated air dryers obtained National Industrial Product Production License.
2. Became one of the earliest domestic manufacturers specializing in refrigerated air dryers.
3. Established a strategic market position for compressed air purification equipment.
4. Positioned the company as an "Artisan Enterprise" with a focus on premium quality.
5. Enhanced employee engagement through a comprehensive corporate culture program.



2009-2012 | EARLY DEVELOPMENT

1. Obtained the National Industrial Product Manufacturing License.
2. Phase I manufacturing facility completed and put into operation.
3. Developed multiple proprietary technologies and obtained patents.
4. Established the company's first standardized management team.
5. Successfully certified to the ISO 9001 Quality Management System.

BRAND VISION

Creating a World-Renowned Brand



CORPORATE HONORS

Recognized Quality, Proven Excellence



High-Tech Enterprise



Specialized and Sophisticated Enterprise



Credit Rating AAA Enterprise



AAA Quality Service Enterprise



Invention Patent Certificate



Utility Model Patent Certificate



Design Patent Certificate



Software Copyright
Registration Certificate

Accumulated 30+ Patent Certificates



ISO 14001
Environmental Management
System Certification



ISO 9001
Quality Management
System Certification



ISO 45001
Occupational Health and Safety
Management System Certification



ISO 45001
Occupational Health and 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



OUR MISSION

To provide professional, comprehensive, and competitive solutions for compressed air purification and gas separation.



OUR VISION

To be a leading enterprise and a world-renowned brand.



OUR PHILOSOPHY

Technology-driven, value-oriented.



OUR VALUES

Professionalism, Stability, and Service Excellence.



MARKETING STRATEGY

Deliver high-quality products and professional services to create value for our customers.



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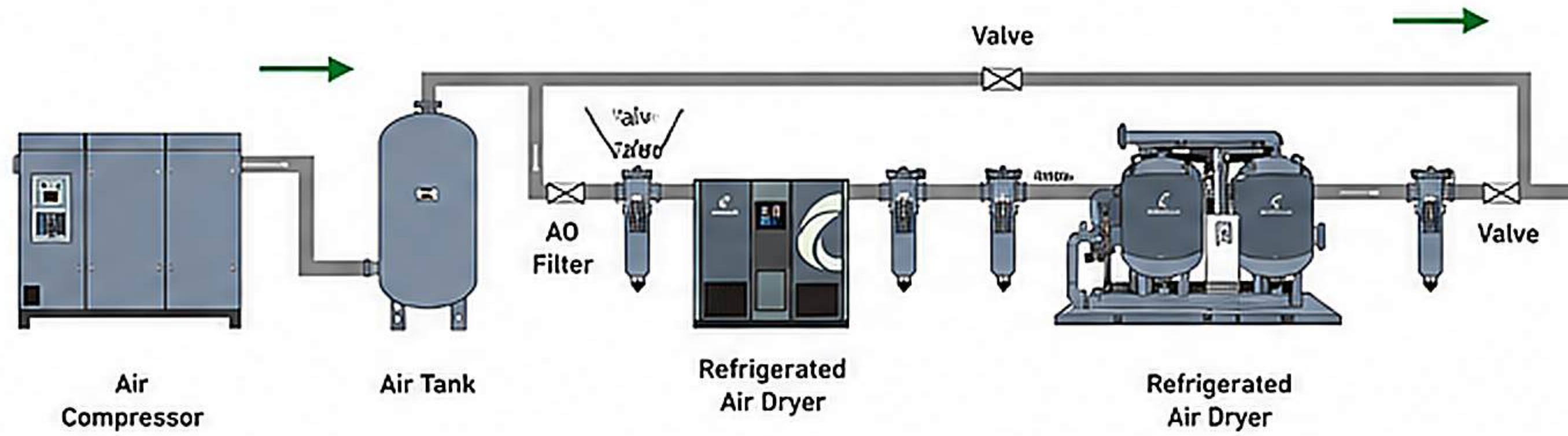
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01 COMPRESSED AIR PURIFICATION SYSTEM

Compressed air purification system

The compressed air used in industrial fields undergoes various operations and processes, making it inevitable that oil, moisture, dust, and other impurities are generated during the production process. If the compressed air is not properly purified, dried, and filtered, it will not only affect the performance and service life of equipment and pneumatic tools, but may also lead to product quality defects, production line interruptions, and even serious safety accidents.

TYPICAL INSTALLATION DIAGRAM OF COMPRESSED AIR PURIFICATION SYSTEM



Note: The above is a typical configuration. The actual system may vary depending on user requirements.

QUESTION 1: COMPRESSED AIR MOISTURE

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

FORM OF CONTAMINATION

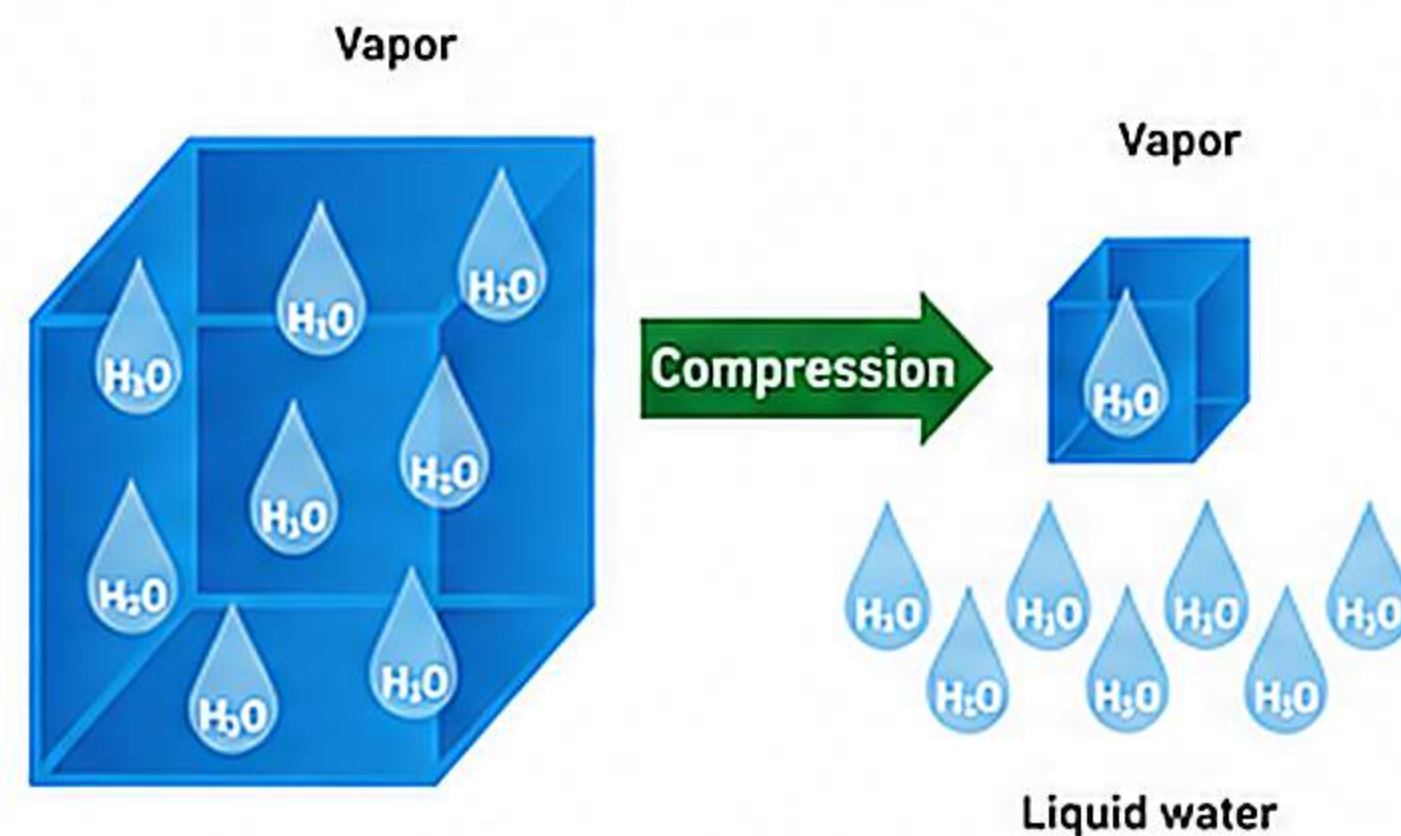
Water vapor, liquid water

HOW ARE CONTAMINANTS FORMED?

Moisture is naturally present in the air we breathe. When air is compressed, the amount of moisture increases. As the temperature of the compressed air cools down in the system, the moisture condenses into liquid water.

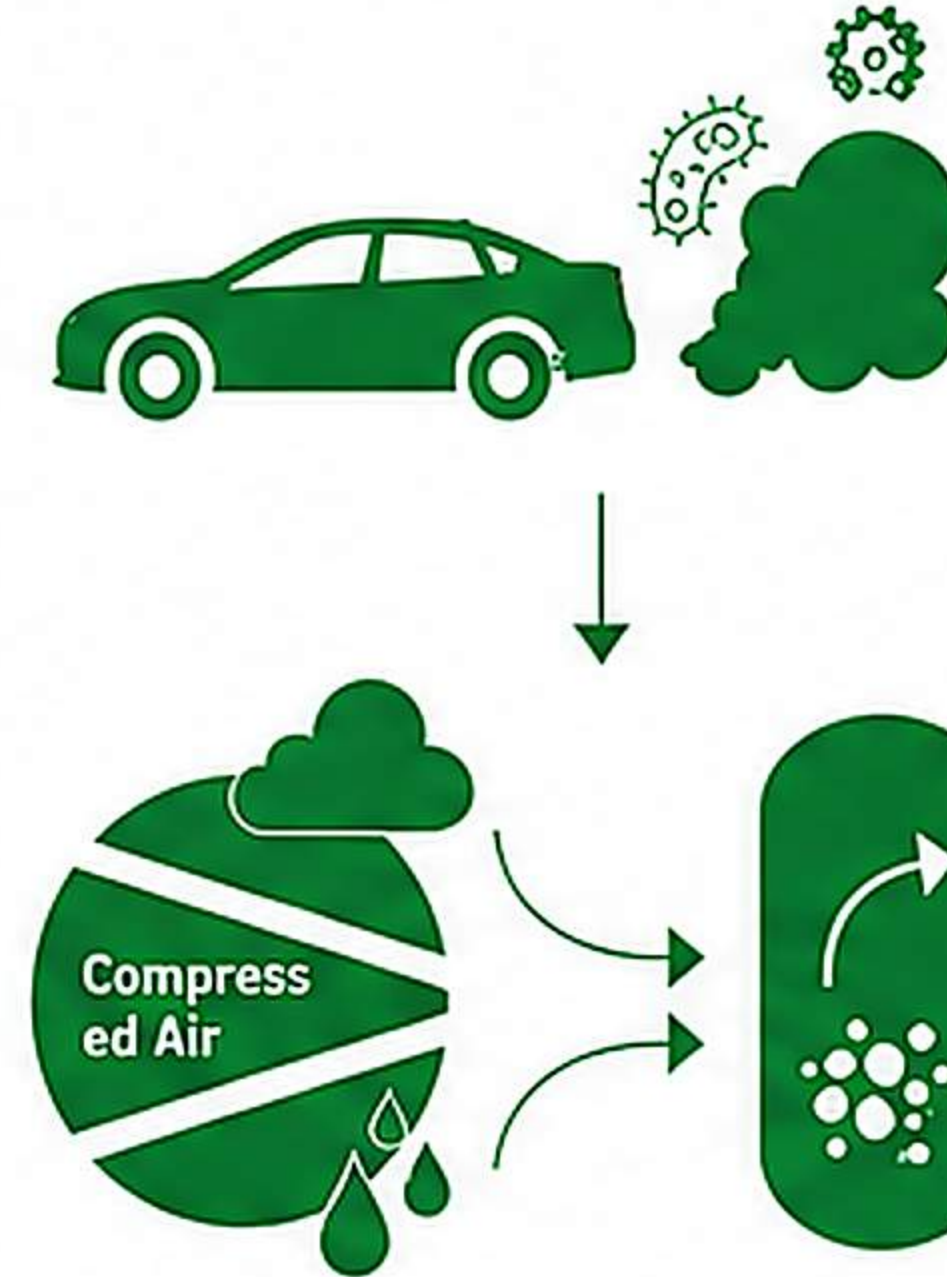
WHAT PROBLEMS CAN CONTAMINANTS CAUSE?

- Equipment corrosion
- Pipeline blockage
- Reduced product quality
- Pipeline
- Control system failure
- Leakage



QUESTION 2: COMPRESSED AIR CARRYOVER OIL

■ Purification solutions: Refrigerated air dryer, coalescing filter, oil removal filter, oil-water separator, high-efficiency oil removal filter, etc.



FORM OF CONTAMINATION

Liquid oil, oil mist, vapor

WHAT PROBLEMS CAN CONTAMINANTS CAUSE?

- Damages equipment, causing malfunctions and increased maintenance costs
- Reduced efficiency and unstable operation of pneumatic systems
- Product contamination
- Increased maintenance costs

HOW ARE CONTAMINANTS FORMED?

Lubricating oil is used in compressors. When compressed air flows through the systems and tools, the oil is carried along as mist and vapor and enters the downstream equipment and end users.

QUESTION 3: SOLID PARTICLES IN COMPRESSED AIR

■ Purification solutions: Particulate filter, automatic drain

FORM OF CONTAMINATION

Dust, particles, scale

HOW ARE CONTAMINANTS FORMED?

Dust and particles enter the system with the intake air. They are generated when compressed air flows through piping, dryers, and tools, or caused by rust and scale from the pipeline.

WHAT PROBLEMS CAN CONTAMINANTS CAUSE?

- Damages equipment, causing malfunctions and increased maintenance costs



01 COMPRESSED AIR PURIFICATION SYSTEM

Compressed air purification system

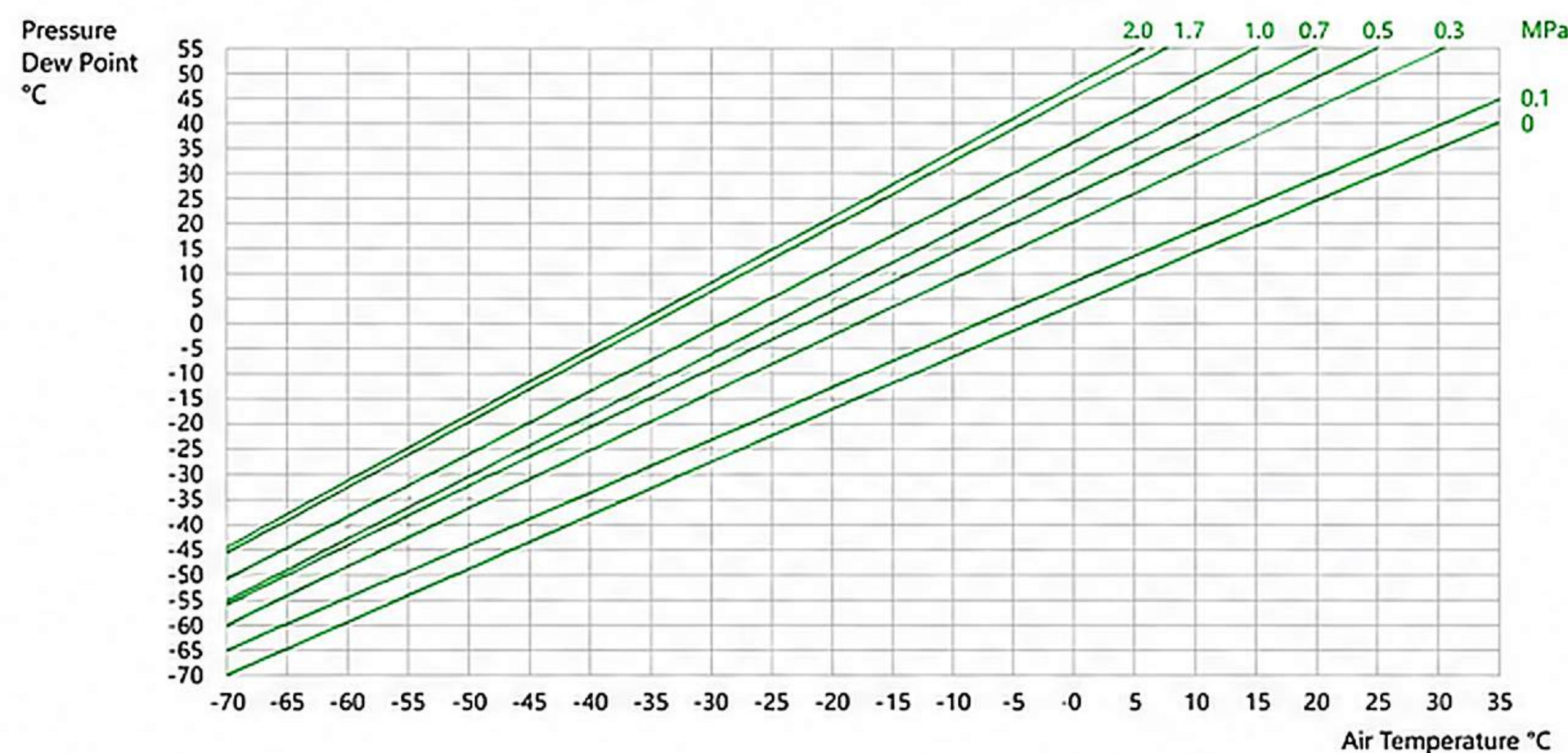
What is humid compressed air?

Under certain temperature and pressure conditions, the air contains a certain amount of water vapor (in other words, the moisture content). When the temperature decreases, the water vapor in the air reaches saturation. At this point, any further decrease in temperature will cause some of the water vapor to condense into liquid water.

Dew point explanation:

At a certain pressure, as the temperature of the compressed air decreases, the water vapor in the air reaches saturation and begins to condense into liquid. The temperature at which this condensation begins is called the pressure dew point. The pressure dew point is related to the amount of water vapor in the air—the higher the moisture content, the higher the pressure dew point; the lower the moisture content, the lower the pressure dew point.

Pressure Dew Point – Pressure Relation Chart



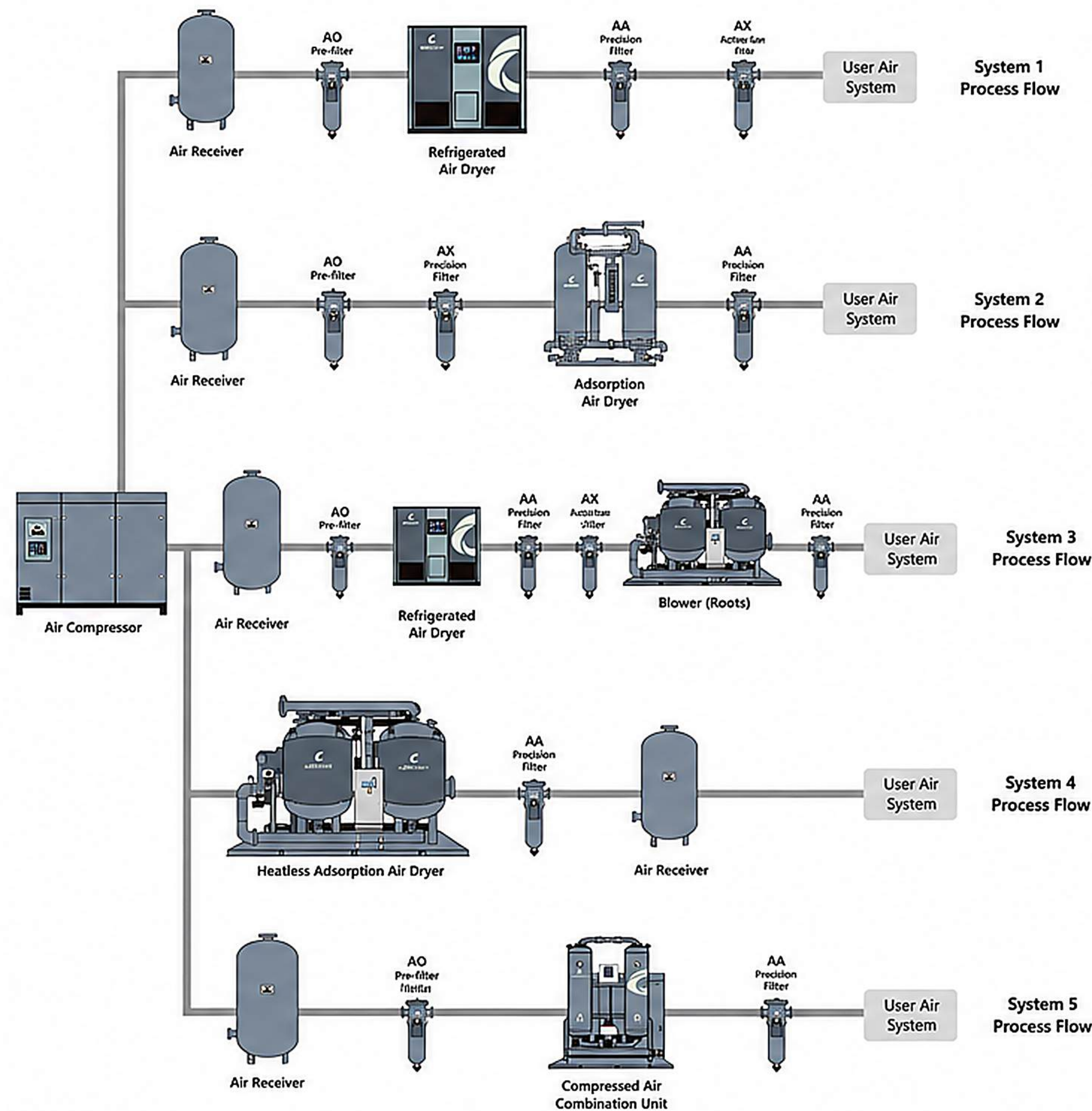
Pressure Dew Point – Moisture Content Reference Table

Dew Point (°C)	Water Content g/m ³	Dew Point (°C)	Water Content g/m ³	Dew Point (°C)	Water Content g/m ³	Dew Point (°C)	Water Content g/m ³	Dew Point (°C)	Water Content g/m ³
14	12.070	1	5.192	-12	2.0060	-25	2.7074	-38	0.2141
13	11.350	0	4.847	-13	1.8760	-26	0.6463	-39	0.1940
12	10.660	-1	4.523	-14	1.7360	-27	0.5922	-40	0.1757
11	10.010	-2	4.217	-15	1.6050	-28	0.5422	-41	0.1590
10	9.309	-3	3.930	-16	1.4830	-29	0.4960	-42	0.1438
9	8.819	-4	3.660	-17	1.3690	-30	0.4534	-43	0.1298
8	8.270	-5	3.4070	-18	1.2610	-31	0.4141	-44	0.1172
7	7.50	-6	3.1690	-19	1.1650	-32	0.3779	-45	0.1055
6	7.260	-7	2.9460	-20	1.0740	-33	0.3445	-46	0.0950
5	6.797	-8	2.7370	-21	0.9884	-34	0.3138	-47	0.0854
4	6.360	-9	2.5410	-22	0.9993	-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

COMPRESSED AIR PURIFICATION,
PROFESSIONAL SOLUTIONS, RELIABLE SERVICE



COMPRESSED AIR PURIFICATION SYSTEM PROCESS FLOW



Note: The above is for reference only.
Actual configurations may vary depending on user requirements.

03 ADSORPTION DRYER

Compressed air adsorption dryer

3.1.1 CH Series Heatless Regenerative Adsorption Dryer



WORKING PRINCIPLE

The heatless regenerative adsorption dryer uses the molecular sieve adsorption principle. In the twin towers filled with adsorbent, one tower adsorbs moisture from the compressed air while the other is regenerated by depressurization. When the adsorption tower is saturated, the pressurized tower switches to regeneration, and the regenerated tower returns to adsorption mode, thus ensuring continuous supply of dry compressed air. The microprocessor control system automatically switches the operating towers in sequence. Therefore, during the entire drying process, no manual operation is required. The CH series dryer adopts a reliable valve system with long service life and stable performance.

DESIGN FEATURES

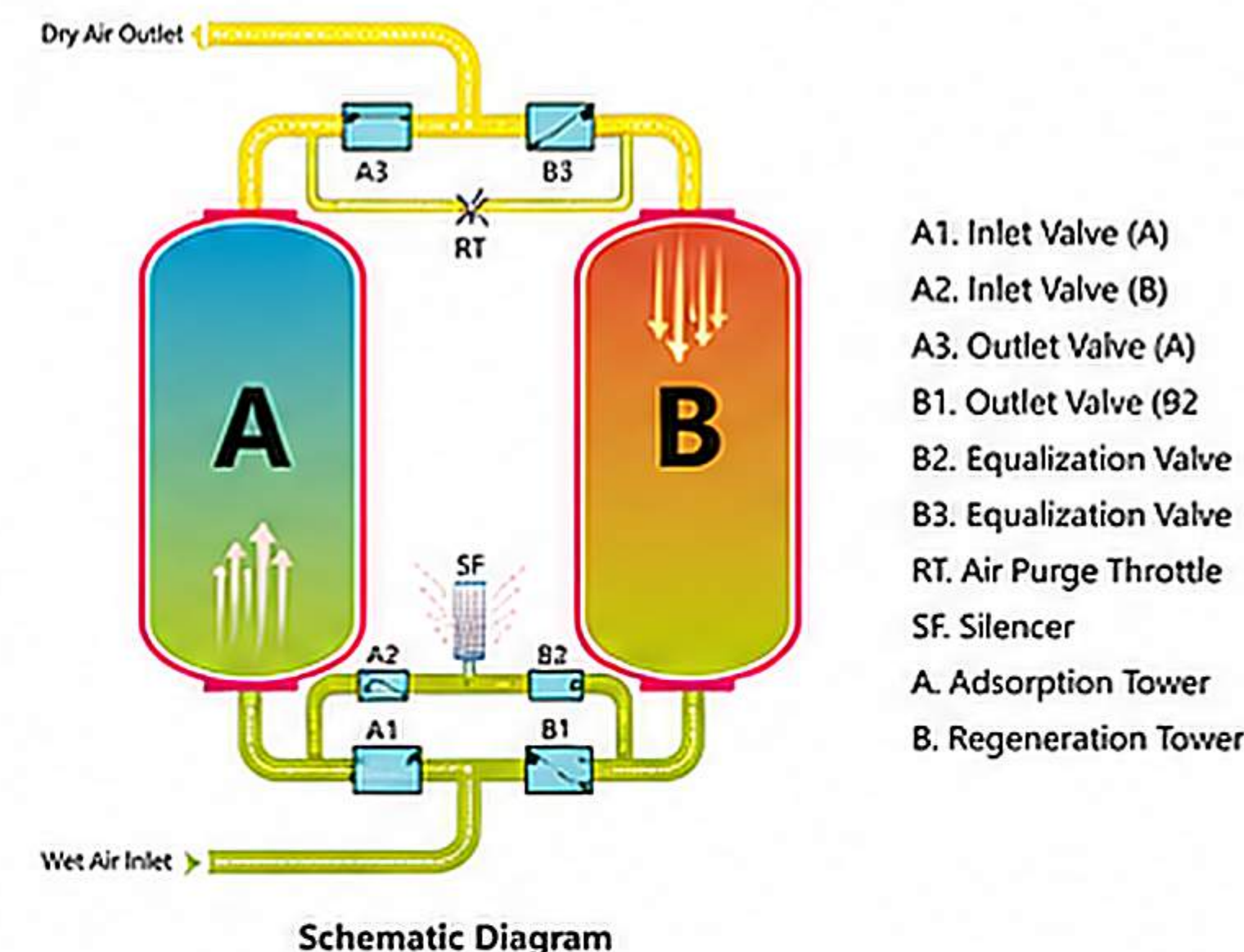
- Reliable and Durable Valves**
Pneumatically actuated valves with high reliability and long service life; stable operation and easy maintenance.
- Aluminum Alloy Valve Body**
Aluminum alloy valve body with excellent flow performance and low pressure drop.
- Silencer**
Built-in silencer reduces noise; optional mufflers on exhaust ports further reduce noise.
- Electronic Control System**
PLC intelligent control with Chinese/English display and communication interface; convenient operation and maintenance.
- Operating Status Indicator**
Panel displays the operating status of the dryer in real time, facilitating troubleshooting and maintenance.
- Automatic Drain Valve**
Timed and programmable automatic drain valve; opens and closes periodically to discharge condensate, ensuring stable system pressure and protecting the adsorbent from moisture impact.

COMPRESSED AIR PURIFICATION,
PROFESSIONAL SOLUTIONS, RELIABLE SERVICE



OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: ≤ 40°C)
- Average outlet dew point: 8% ~ 14%
- Outlet pressure dew point: -50°C ~ -20°C
- Adsorbent: Activated alumina
- Ambient temperature: 35°C
(2°C ~ 45°C can be used)



TECHNICAL PARAMETER

Model	Capacity (m³/min)	Voltage (V/Hz)	Power (kW)	Air Inlet/Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L x W x H
LY-CH30NX	3.8	220/50	0.1	G1½"	175	840×500×1691
LY-CH50NX	6.5	220/50	0.1	G1½"	310	1010×500×1713
LY-CH75NX	10.5	220/50	0.1	G2"	430	1090×600×1912
LY-CH100NX	13.5	220/50	0.1	G2"	522	1164×600×2192
LY-CH120NX	17.0	220/50	0.1	DN65	580	1195×780×2251
LY-CH150NX	21.5	220/50	0.1	DN80	720	1326×590×2282
LY-CH180NX	25.0	220/50	0.1	DN80	820	1346×870×2394
LY-CH200NX	28.5	220/50	0.1	DN80	1000	1460×1060×2320
LY-CH250NX	32.0	220/50	0.1	DN80	1100	1460×1060×2510
LY-CH300NX	37.0	220/50	0.1	DN100	1180	1580×1080×2460
LY-CH350NX	41.5	220/50	0.1	DN100	1350	1700×1060×2730
LY-CH400NX	45.0	220/50	0.1	DN100	1420	1765×1160×2550
LY-CH450NX	50.0	220/50	0.1	DN100	1550	1765×1160×2750
LY-CH500NX	55.0	220/50	0.1	DN100	1670	1825×1150×2690
LY-CH550NX	60.0	220/50	0.1	DN100	1790	1825×1150×2790
LY-CH600NX	65.0	220/50	0.1	DN125	2000	2040×1240×2820
LY-CH650NX	70.0	220/50	0.1	DN125	2120	2040×1240×2820
LY-CH700NX	75.0	220/50	0.1	DN125	2320	2136×1240×2930
LY-CH800NX	85.0	220/50	0.1	DN125	2500	2210×1350×2970
LY-CH900NX	95.0	220/50	0.1	DN150	2850	2330×1430×3250
LY-CH1100NX	110.0	220/50	0.1	DN150	3000	2450×1430×2980
LY-CH1300NX	130.0	220/50	0.1	DN150	4300	2610×1580×3355
LY-CH1500NX	150.0	220/50	0.1	DN200	5100	2900×1400×3211

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

03 ADSORPTION DRYER

Compressed air adsorption dryer

3.1.2 HH Series Heatless Regenerative Adsorption Dryer



WORKING PRINCIPLE

The HH series heatless regenerative adsorption dryer uses molecular sieve adsorption to remove moisture from compressed air. During adsorption, one tower adsorbs moisture under pressure while the other is regenerated by depressurization. When the adsorbent becomes saturated, the towers switch automatically to ensure continuous supply of dry compressed air.

A portion of the dried air is used to regenerate the other tower by purging moisture without external heating, followed by repressurization. The microprocessor control system automatically manages the cycle based on preset parameters, ensuring stable performance and energy efficiency. Manual operation is not required.

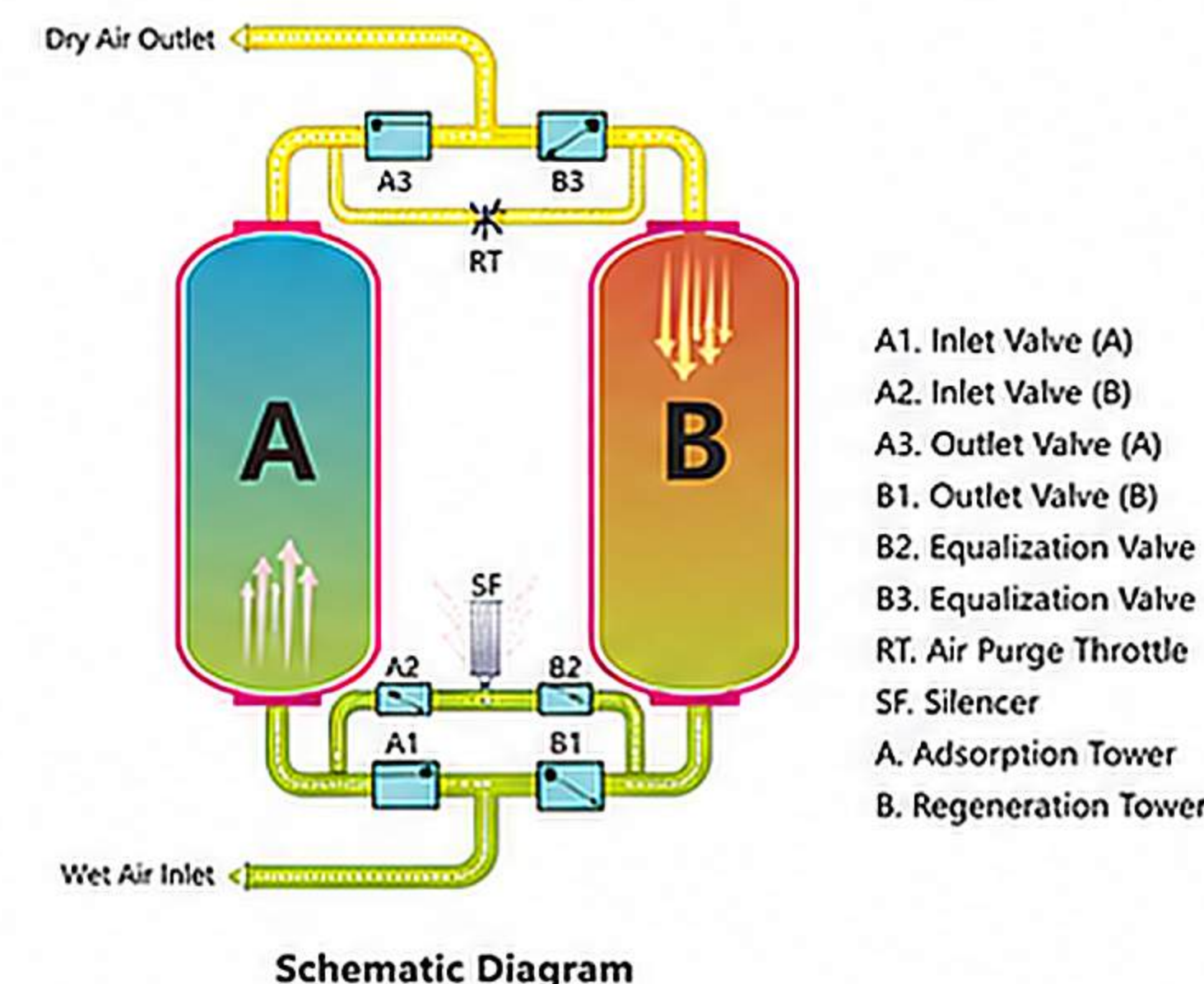
The HH series adopts reliable valves with long service life and stable operation.

DESIGN FEATURES

- Reliable Pneumatic Valves**
High-reliability pneumatic valves deliver responsive operation, long service life, and stable performance.
- Aluminum Alloy Valve Body**
Large-diameter integral aluminum alloy valve body offers low flow resistance and high reliability.
- Moisture Removal Efficiency**
High-efficiency desiccant provides strong adsorption capacity and high moisture removal efficiency for stable dew point.
- Electronic Control System**
PLC intelligent control with Chinese/English interface; functions include timed switching, status display, and fault alarms for easy operation and maintenance.
- Operating Energy Saving**
Optimized air flow path minimizes pressure loss and reduces exhaust air consumption.
- Automatic Pressure Equalization**
Automatic pressure equalization valve balances tower pressures before switching, preventing pressure shock and extending the service life of the adsorbent.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: ≤ 40°C)
- Average outlet dew point: 8% ~ 14%
- Outlet pressure dew point: ≤ -40°C
- Adsorbent: Activated alumina + high-efficiency molecular sieve
- Ambient temperature: 35°C
(2°C ~ 45°C can be used)



TECHNICAL PARAMETER

Model	Capacity (m³/min)	Voltage (V/Hz)	Power (kW)	Air Inlet/Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L × W × H
LY-HH10NX	1.5	220/50	0.1	G1"	175	726 × 520 × 1802
LY-HH20NX	2.5	220/50	0.1	G1"	260	840 × 500 × 1691
LY-HH30NX	3.8	220/50	0.1	G1½"	310	1010 × 500 × 1713
LY-HH50NX	6.5	220/50	0.1	G1½"	430	1160 × 600 × 1847
LY-HH75NX	10.5	220/50	0.1	G2"	522	1195 × 600 × 2175
LY-HH100NX	13.5	220/50	0.1	G2"	580	1256 × 700 × 2225
LY-HH120NX	17.0	220/50	0.1	DN65	720	1346 × 790 × 2390
LY-HH150NX	21.5	220/50	0.1	DN80	820	1460 × 930 × 2264
LY-HH180NX	25.0	220/50	0.1	DN80	1000	1459 × 930 × 2443
LY-HH200NX	28.5	220/50	0.1	DN80	1100	1560 × 1070 × 2450
LY-HH250NX	32.0	220/50	0.1	DN80	1180	1600 × 1050 × 2650
LY-HH300NX	37.0	220/50	0.1	DN100	1350	1700 × 1100 × 2680
LY-HH350NX	41.5	220/50	0.1	DN100	1420	1830 × 1150 × 2700
LY-HH400NX	45.0	220/50	0.1	DN100	1550	1765 × 1160 × 2550
LY-HH450NX	50.0	220/50	0.1	DN100	1670	1765 × 1160 × 2750
LY-HH600NX	65.0	220/50	0.1	DN100	1790	1825 × 1150 × 2690
LY-HH650NX	70.0	220/50	0.1	DN125	2920	2040 × 1240 × 2820
LY-HH700NX	75.0	220/50	0.1	DN125	2120	2040 × 1240 × 2920
LY-HH700NX	85.0	220/50	0.1	DN125	2320	2136 × 1240 × 2930
LY-HH900NX	95.0	220/50	0.1	DN125	2650	2210 × 1350 × 3230
LY-HH1100NX	110.0	220/50	0.1	DN150	3000	2430 × 1430 × 2980
LY-HH1300NX	130.0	220/50	0.1	DN150	4300	2610 × 1580 × 3355
LY-HH1500NX	150.0	220/50	0.1	DN200	5100	2900 × 1400 × 3211

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



03 ADSORPTION DRYER

Compressed air adsorption dryer

3.2.1 CH Series Heatless Regenerative Adsorption Dryer



WORKING PRINCIPLE

The heatless regenerative adsorption dryer operates on the principle of pressure swing adsorption. In the twin towers, one tower adsorbs moisture from the compressed air while the other is regenerated by depressurization.

When the adsorption tower is saturated, the pressure switch automatically switches the flow to the other tower. A portion of the dried air is discharged to the atmosphere through the purge throttle to regenerate the saturated tower.

The microprocessor control system precisely controls the sequence of adsorption, depressurization, and purge, ensuring stable dew point and reliable operation. The CH series dryer features heatless regeneration, no external heat source required, delivering low energy consumption.

DESIGN FEATURES

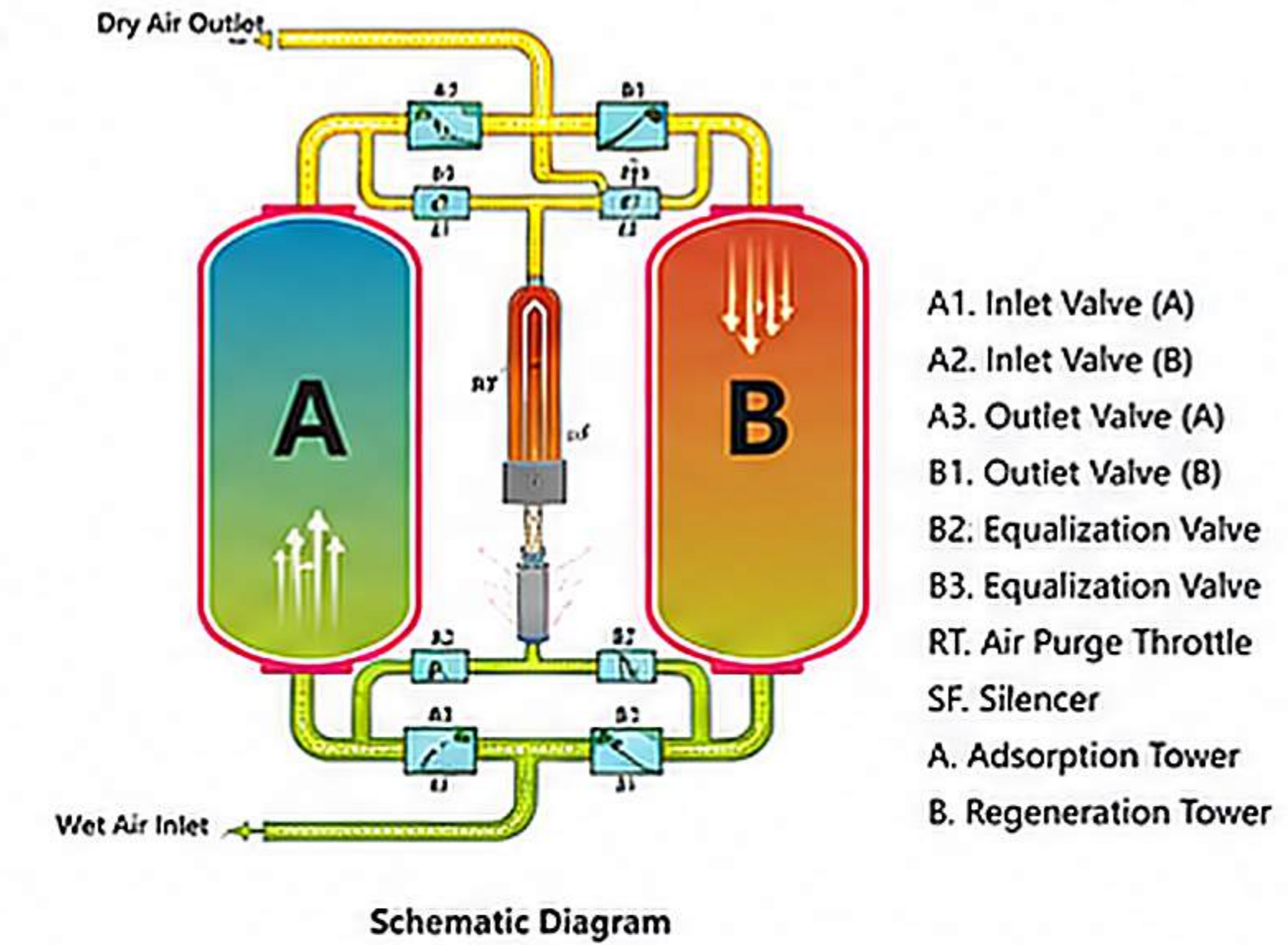
- Reliable Pneumatic Valves**
Pneumatically actuated valves with high reliability, fast response, stable operation, and long service life.
- High-Performance Desiccant**
High adsorption capacity and moisture resistance, ensuring stable dew point and no pulverization.
- Electronic Control System**
PLC intelligent control (Chinese/English interface), process status display, convenient operation and maintenance.
- Operating Energy Saving**
A portion of the dried air is used for regeneration, minimizing air consumption and reducing operating cost.
- Automatic Pressure Equalization** valve opens and closes automatically to balance tower pressures, reducing pressure shock and extending desiccant life.
- Enhanced Adsorption Performance**
Built-in aftercooler prevents desiccant overheating, improving adsorption efficiency and extending desiccant service life.

COMPRESSED AIR PURIFICATION,
PROFESSIONAL SOLUTIONS, RELIABLE SERVICE



OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: ≤ 40°C)
- Average outlet dew point: 4% ~ 8%
- Outlet pressure dew point: -50°C ~ -20°C
- Adsorbent: Activated alumina + high-efficiency molecular sieve
- Ambient temperature: 35°C
(2°C ~ 45°C can be used)



TECHNICAL PARAMETER

Model	Capacity (m³/min)	Voltage (V/Hz)	Control Power (kW)	Air Inlet/Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L x W x H
LY-CH10HX	1.5	380/50	0.9	G1"	95	666 x 520 x 1692
LY-CH20HX	2.5	380/50	1.7	G1"	125	726 x 520 x 1802
LY-CH30HX	3.8	380/50	1.7	G1½"	180	840 x 500 x 1691
LY-CH50HX	6.5	380/50	2.5	G1½"	315	1010 x 500 x 1713
LY-CH75HX	10.5	380/50	3.7	G2"	448	1090 x 600 x 1912
LY-CH100HX	13.5	380/50	3.7	G2"	540	1164 x 600 x 2192
LY-CH120HX	17.0	380/50	6.7	DN65	610	1195 x 780 x 2251
LY-CH150HX	21.5	380/50	6.1	DN80	740	1265 x 900 x 2282
LY-CH180HX	25.0	380/50	10.0	DN80	850	1346 x 870 x 2394
LY-CH200HX	28.5	380/50	10.0	DN80	1040	1460 x 1060 x 2320
LY-CH300HX	37.0	380/50	13.1	DN100	1250	1460 x 1080 x 2510
LY-CH350HX	47.5	380/50	13.1	DN100	1390	1500 x 1080 x 2750
LY-CH350HX	41.5	380/50	13.1	DN100	1390	1700 x 1060 x 2730
LY-CH400HX	45.0	380/50	13.1	DN100	1450	1765 x 1160 x 2550
LY-CH450HX	50.0	380/50	13.1	DN100	1550	1765 x 1160 x 2750
LY-CH500HX	55.0	380/50	13.1	DN100	1700	1825 x 1150 x 2690
LY-CH550HX	60.0	380/50	20.1	DN125	1830	1830 x 1150 x 2790
LY-CH600HX	65.0	380/50	20.1	DN125	2050	2040 x 1240 x 2820
LY-CH650HX	70.0	380/50	20.1	DN125	2270	2040 x 1240 x 2920
LY-CH650HX	70.0	380/50	20.1	DN125	2270	2136 x 1240 x 2930
LY-CH700HX	75.0	380/50	27.1	DN125	2380	2136 x 1350 x 2930
LY-CH800HX	85.0	380/50	27.1	DN125	2650	2210 x 1350 x 2970
LY-CH900HX	95.0	380/50	34.1	DN150	2950	2350 x 1430 x 3250
LY-CH1100HX	110.0	380/50	42.1	DN150	3200	2450 x 1430 x 2980
LY-CH1300HX	130.0	380/50	42.1	DN150	4700	2610 x 1580 x 3060
LY-CH1500HX	150.0	380/50	50.1	DN200	5100	2900 x 1400 x 3211

Note: For air volume greater than 150 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

03 ADSORPTION DRYER

Compressed air adsorption dryer

3.2.2 HH Series Heatless Regenerative Adsorption Dryer



WORKING PRINCIPLE

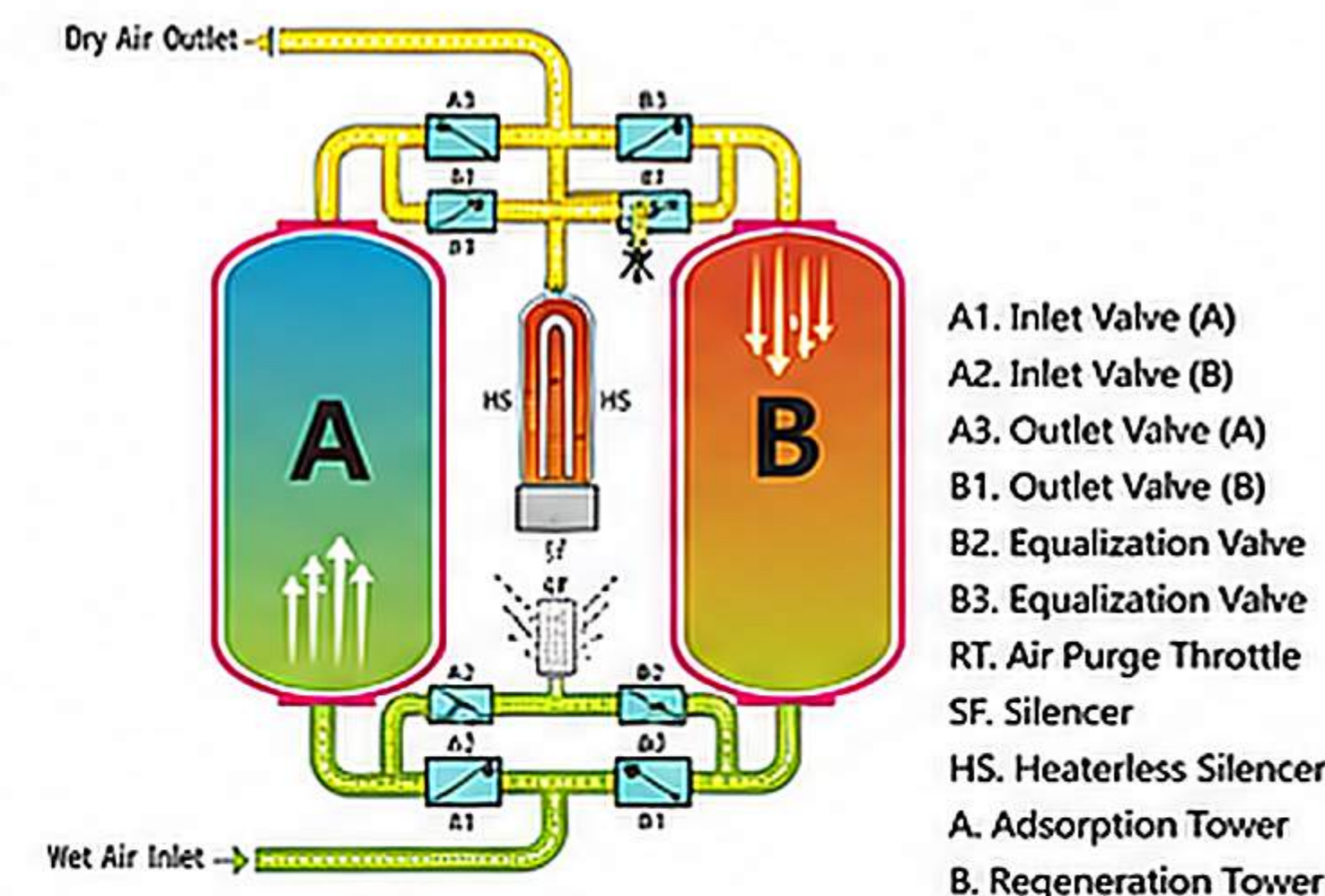
The HH series heatless regenerative adsorption dryer operates on the principle of pressure swing adsorption. In the two towers, one tower adsorbs moisture from the compressed air under pressure while the other is regenerated by depressurization. When the adsorption tower is saturated, the pressure switch automatically switches the flow to the other tower. A portion of the dried air is used as purge air to regenerate the saturated tower by releasing pressure and purging the moisture. The microprocessor control system precisely controls the sequence of adsorption, depressurization, and purging to ensure stable dew point and reliable operation. The HH series dryer features heatless regeneration, no external heat source required, and realizes "adsorption", "regeneration" and "cooling + regeneration", which are merely different steps of desorption.

DESIGN FEATURES

- Reliable Pneumatic Valves**
Pneumatically actuated valves with high reliability, fast response, stable operation, and long service life.
- High-Performance Desiccant**
High adsorption capacity and moisture resistance, ensuring stable dew point and no pulverization.
- Electronic Control System**
PLC intelligent control with Chinese/English interface; real-time monitoring and status display for convenient operation and maintenance.
- Operating Energy Saving**
A portion of the dried air is used for regeneration, minimizing air consumption and reducing operating cost.
- Automatic Pressure Equalization Valve**
Opens and closes automatically to balance tower pressures, reducing pressure shock and extending desiccant life.
- Enhanced Adsorption Performance**
Built-in aftercooler prevents desiccant overheating, improving adsorption efficiency and extending desiccant life.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: ≤ 40°C)
- Average outlet dew point: 4% ~ 8%
- Outlet pressure dew point: -50°C ~ -20°C
- Adsorbent: Activated alumina + high-efficiency molecular sieve
- Ambient temperature: 35°C
(2°C ~ 45°C can be used)



Schematic Diagram

TECHNICAL PARAMETER

Model	Capacity (m³/min)	Voltage (V/Hz)	Control Power (kW)	Air Inlet/Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L × W × H
LY-HH10HX	1.5	380/50	1.7	G1"	125	666 × 520 × 1692
LY-HH20HX	2.5	380/50	1.7	G1"	180	840 × 500 × 1691
LY-HH30HX	3.8	380/50	1.7	G1½"	310	1010 × 500 × 1713
LY-HH50HX	6.5	380/50	2.5	G1½"	436	1160 × 600 × 1847
LY-HH75HX	10.5	380/50	3.7	G2"	448	1090 × 600 × 2175
LY-HH100HX	13.5	380/50	3.7	G2"	540	1164 × 600 × 2192
LY-HH120HX	17.0	380/50	3.7	DN65	610	1195 × 780 × 2251
LY-HH150HX	21.5	380/50	6.1	DN80	740	1265 × 900 × 2282
LY-HH180HX	25.0	380/50	10.0	DN80	850	1346 × 870 × 2394
LY-HH200HX	28.5	380/50	10.0	DN80	1040	1460 × 1060 × 2320
LY-HH250HX	32.0	380/50	10.0	DN80	1150	1460 × 1060 × 2510
LY-HH300HX	37.0	380/50	13.1	DN100	1250	1580 × 1080 × 2460
LY-HH350HX	41.5	380/50	13.1	DN100	1390	1700 × 1060 × 2730
LY-HH400HX	45.0	380/50	13.1	DN100	1460	1765 × 1160 × 2550
LY-HH450HX	50.0	380/50	13.1	DN100	1590	1765 × 1160 × 2750
LY-HH500HX	55.0	380/50	20.1	DN100	1700	1825 × 1150 × 2690
LY-HH550HX	60.0	380/50	20.1	DN100	1830	1830 × 1150 × 2790
LY-HH600HX	65.0	380/50	20.1	DN125	2050	2040 × 1240 × 2820
LY-HH650HX	70.0	380/50	20.1	DN125	2270	2040 × 1240 × 2920
LY-HH700HX	75.0	380/50	20.1	DN125	2380	2136 × 1240 × 2930
LY-HH800HX	85.0	380/50	27.1	DN125	2650	2210 × 1350 × 2970
LY-HH900HX	95.0	380/50	34.1	DN150	2950	2350 × 1430 × 3250
LY-HH1100HX	110.0	380/50	42.1	DN150	3200	2450 × 1430 × 2980
LY-HH1300HX	130.0	380/50	42.1	DN150	4700	2610 × 1580 × 3060
LY-HH1500HX	150.0	380/50	50.1	DN200	6100	2900 × 1400 × 3211

Note: For air volume greater than 150 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

03 ADSORPTION DRYER

Compressed air adsorption dryer

3.3 M Series Modular Adsorption Dryer



WORKING PRINCIPLE

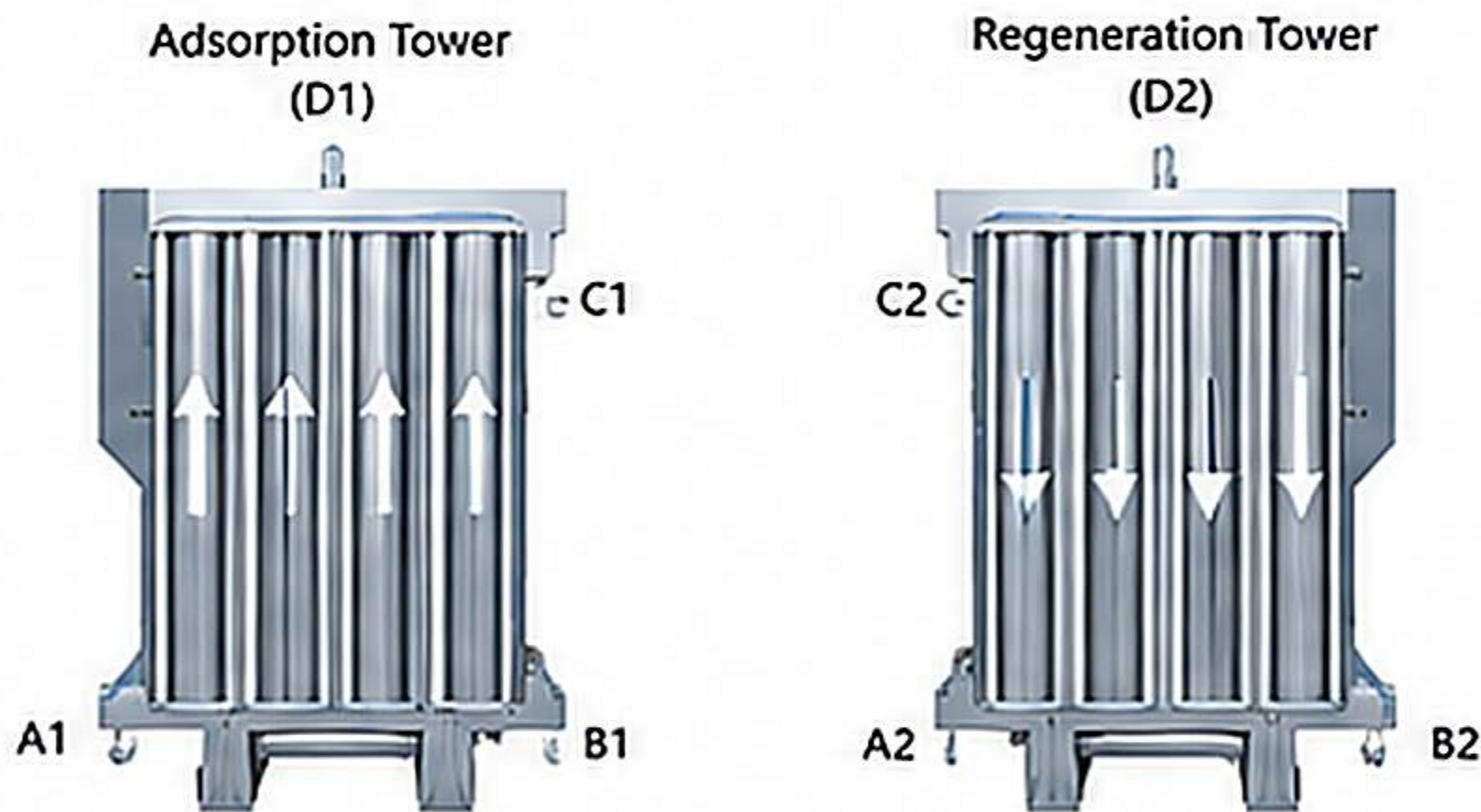
The M series modular adsorption dryer is based on a twin-tower adsorption structure. Desiccant adsorption is used to remove moisture from compressed air. The pressure swing generated by switching the towers adopts a direct purge method, which effectively reduces desiccant loss. This "adsorption and regeneration" cycle ensures continuous production of dry air. The compressed air enters from the bottom of the adsorption tower and flows upward, while the purge gas flows downward. Dry air is discharged from the top for use. The dryer features excellent drying performance, ensuring stable dew point and low desiccant consumption.

DESIGN FEATURES

- **Energy saving:** Air consumption for regeneration 5%–8%.
- **High performance:** High-quality desiccant and efficient diffusers ensure reliable performance.
- **Cost-effective:** Compact size and low investment and maintenance cost.
- **Low environmental impact:** Low noise and zero emissions, protecting the environment.
- **High product quality:** Prevents compressed air contamination, ensuring product quality and extending the service life of equipment.
- **No unattended operation required:** Fully automatic control, no need for on-site operator.
- **Integrated structure:** Integrated air piping and valve assembly for easy installation; widely used in various industrial applications.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: ≤ 40°C)
- Inlet air temperature: ≤ 15°C
- Outlet pressure dew point: ≤ -20°C (-40°C optional)
- Adsorbent: Activated alumina + high-efficiency molecular sieve
- Ambient temperature: 35°C (2°C ~ 45°C can be used)



- A1. Inlet Valve (A)
- A2. Inlet Valve (B)
- A3. Outlet Valve (A)
- B1. Outlet Valve (B)
- B2. Equalization Valve
- B3. Equalization Valve
- HS. Heater
- SF. Silencer
- A. Adsorption Tower
- B. Regeneration Tower

Schematic Diagram

A (Adsorption): When valve A1 is open, purge valve SF on the adsorption tower closes, and compressed air enters from the bottom (A1) and flows upward to (C1), where moisture is adsorbed. Dry air is discharged from the top (C1) for use.

B (Regeneration): When valve A2 is open, purge valve SF on the regeneration tower opens, and a portion of the dry air at the top (C2) enters from the top (A2), flows downward to (B2), and purges the desiccant to regenerate it.

TECHNICAL PARAMETER

Model	Inlet Flow (m³/min)	Connection Size	Weight (kg)	Voltage (V/Hz)	Dimensions (mm) L × W × H
LY-M100NX	1.5	G1"	95	220/50	666 × 520 × 1692
LY-M200NX	2.5	G1"	125	220/50	726 × 520 × 1802
LY-M300NX	3.8	G1"	180	220/50	840 × 500 × 1691
LY-M500NX	6.5	G1-½"	190	220/50	1010 × 500 × 1713
LY-M750NX	10.5	G2"	285	220/50	1090 × 600 × 2175
LY-M1000NX	13.5	G2-½"	375	220/50	1164 × 600 × 2192
LY-M1200NX	17.0	G2-½"	470	220/50	1195 × 780 × 2251
LY-M1500NX	21.5	G2-½"	565	220/50	1265 × 900 × 2282
LY-M1800NX	25.0	G2-½"	660	220/50	1346 × 870 × 2394
LY-M2000NX	28.5	DN80	755	220/50	1466 × 1060 × 2320
LY-M3000NX	37.0	DN100	940	220/50	1626 × 1320 × 1760
LY-M3500NX	41.5	DN100	1110	220/50	1626 × 1426 × 1760
LY-M4500NX	50.0	DN100	1320	220/50	1626 × 1666 × 1760
LY-M5000NX	55.0	DN125	1510	220/50	1626 × 1884 × 1760

Note: For air volume greater than 150 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

03 COMPRESSED AIR ADSORPTION DRYER

Compressed air adsorption dryer

3.4.1 HRB-E Series Micro-Heat Blower Regenerative Adsorption Dryer



WORKING PRINCIPLE

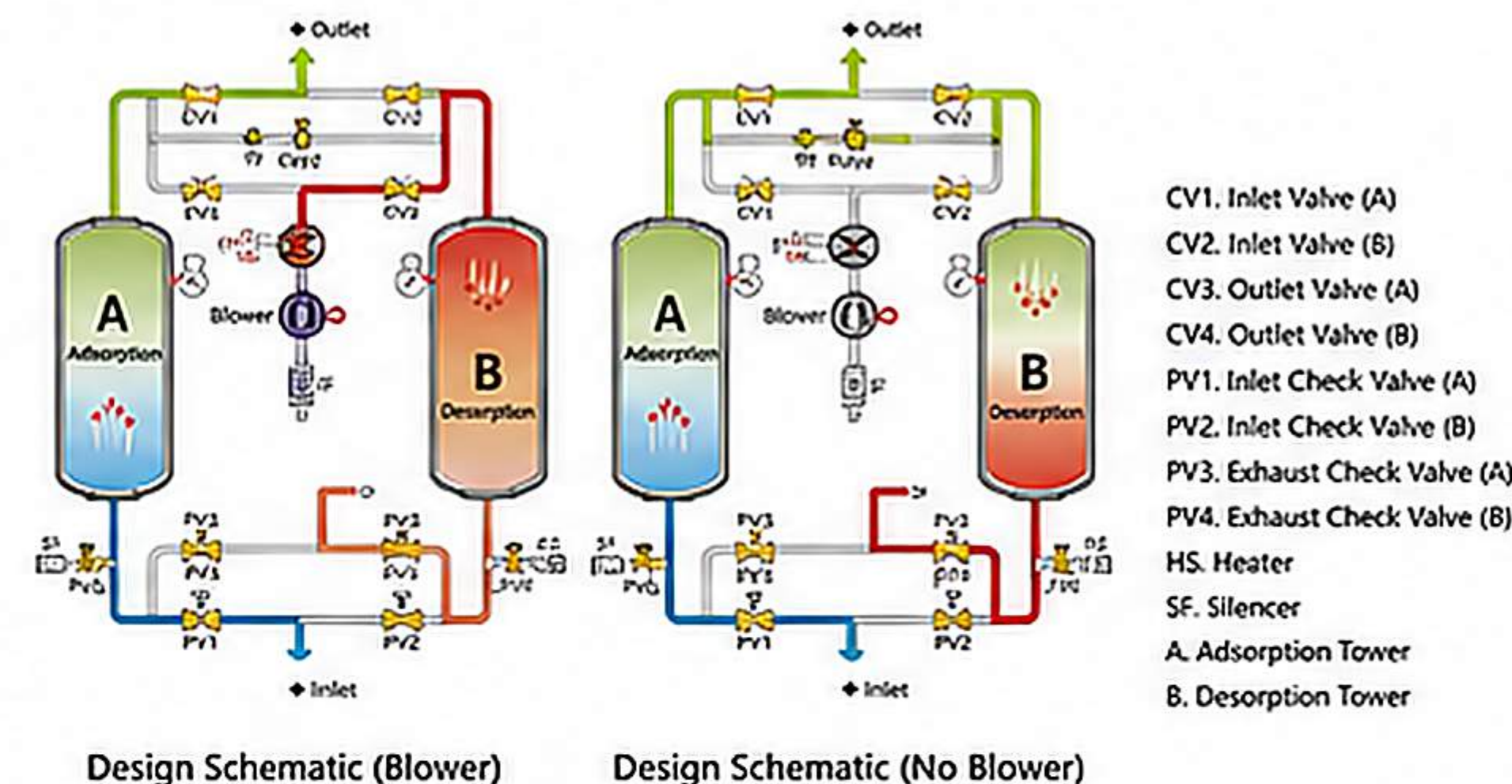
The micro-heat blower regenerative adsorption dryer is based on the principle of a heatless adsorption dryer, with an integrated micro-heat blower. Ambient air is drawn in by the blower, partially used as purge air, and the other part is heated by an electric heater and introduced into the desorption tower as hot dry air. It adsorbs moisture by heating and regenerates the adsorbent. Through continuous switching of the two towers, dried air with low dew point and stable performance is continuously supplied to the system.

DESIGN FEATURES

- Control and communication: Equipped with RS-485 (standard) and supports connection to PLC, SCADA, and IoT platforms.
- Automatic operation: Automatic switching between adsorption and desorption. Adjustable purge air ratio combined with micro-heat regeneration ensures average energy saving $\geq 10\%$.
- Advanced intelligent control: In addition to standard operating mode, it supports energy-saving mode and standby mode. Energy-saving mode can reduce energy consumption $\geq 30\%$.
- Customizable desiccant beds: 20%~30% desiccant filling rate.
- Premium components: High-reliability pneumatic actuated valves, durable and responsive, ensuring long service life.
- 30+ years of control expertise: Specialized for PSA air treatment. The control system adopts micro-heat with blower desorption, and the micro-heat air is used for desorption, which reduces exhaust air volume and lowers air consumption.
- Monitoring functions: Real-time monitoring and display of inlet/outlet air temperature, heater temperature, A/B tower pressure, blower air pressure, dew point temperature (optional), flow, dew point (optional), etc.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: $\leq 40^\circ\text{C}$)
- Inlet air temperature: $\leq 15^\circ\text{C}$
- Average outlet dew point: 2% ~ 3%
- Outlet pressure dew point: -20°C ~ -40°C (optional)
- Adsorbent: Activated alumina + high-efficiency molecular sieve
- Ambient temperature: 35°C
(2°C ~ 45°C can be used)



TECHNICAL PARAMETER

Model	Inlet Flow (m ³ /min)	Connection Size	Blower Power (kW)	Dimensions (mm) L x W x H
HRB-E100	13.5	DN65	12.1	1416×950×2357
HRB-E120	17.5	DN65	16.7	1620×1000×2389
HRB-E150	21.5	DN65	19.5	1720×1000×2567
HRB-E180	25.0	DN80	19.5	1900×1000×2533
HRB-E200	28.5	DN80	22.8	1900×970×2533
HRB-E250	32.0	DN80	28.0	1900×970×2703
HRB-E300	37.0	DN100	36.5	2000×1150×2823
HRB-E360	41.5	DN100	36.5	2100×1100×2758
HRB-E400	45.0	DN100	36.5	2100×1180×2848
HRB-E450	50.0	DN100	36.5	2100×1180×2848
HRB-E500	55.0	DN125	57.5	2850×1800×2959
HRB-E550	60.0	DN125	57.5	2850×1800×2959
HRB-E600	65.0	DN125	57.5	2850×2004×3159
HRB-E700	75.0	DN125	57.5	2993×2004×2913
HRB-E800	85.0	DN125	63.5	2930×1903×3075
HRB-E900	95.0	DN150	77.5	3076×2347×3029
HRB-E1000	110.0	DN150	77.5	3076×2347×3029
HRB-E1200	120.0	DN150	77.5	3200×2456×3146
HRB-E1400	140.0	DN200	105.5	3700×2976×3307
HRB-E1600	160.0	DN200	143	3750×2748×3365
HRB-E1800	180.0	DN200	146.5	4000×2889×3411
HRB-E2000	200.0	DN200	230.5	4100×2800×3440
HRB-E2100	210.0	DN200	250.5	4100×2850×3450
HRB-E2600	260.0	DN250	257.5	4150×3000×3480

Note: For air volume greater than 260 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

03 COMPRESSED AIR ADSORPTION DRYER

Compressed air adsorption dryer

3.4.2 HRB-Z Zero-Purge Blower Regenerative Adsorption Dryer



WORKING PRINCIPLE

The HRB-Z zero-purge blower regenerative adsorption dryer is based on the principle of a blower regenerative adsorption dryer, with an integrated blower for pressurizing the ambient air. The ambient air is heated and introduced into the adsorption tower for desorption to regenerate the adsorbent, and then discharged to the atmosphere through the silencer.

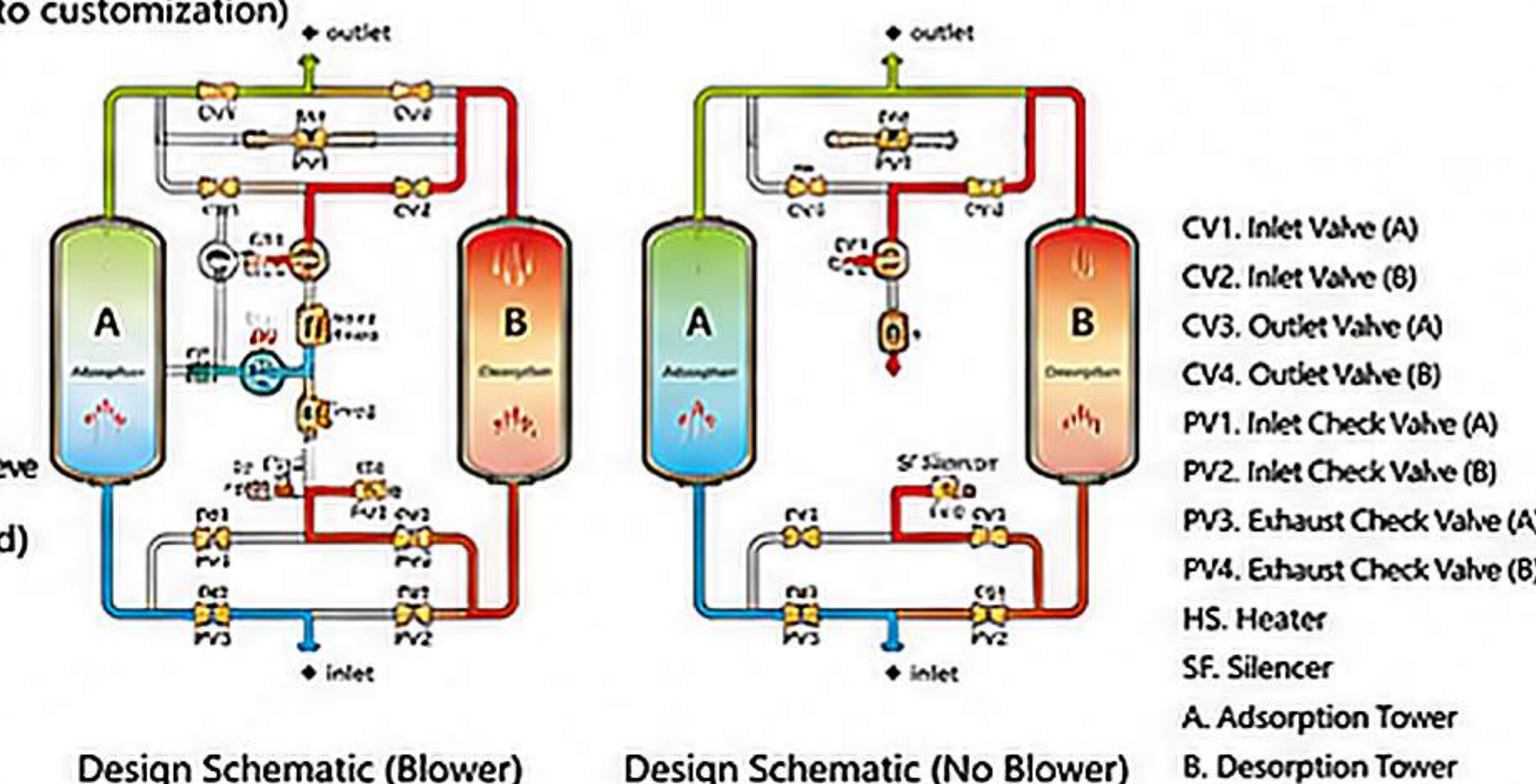
In the zero-purge stage, the blower system controls the adsorption and regeneration switching to reduce air consumption to zero. By adjusting the timing, the dried air with low dew point and the adsorbent can be continuously regenerated, ensuring stable supply of low dew point compressed air.

DESIGN FEATURES

- Communication interface: Standard RS-485 (Modbus), enabling connection to PLC, SCADA and IoT platforms.
- Automatic operation: Automatic switching between adsorption and desorption. The optimal control mode can save more than 10% energy compared with the conventional fixed-cycle mode.
- High efficiency and energy saving: The optimal control mode can save more than 30% energy in the desorption stage.
- High-performance desiccant: 20% filling rate.
- Premium pneumatic valves: High-reliability pneumatic actuated valves, designed with HTFS software for efficient and reliable operation with long service life.
- 30+ years of control expertise: Specialized for PSA air treatment. The control system uses a zero-purge blower design with high air efficiency, reducing exhaust air volume and lowering operating cost.
- Comprehensive monitoring: Real-time monitoring and display of air inlet/outlet temperature, heater temperature, A/B tower pressure, blower air pressure, dew point (optional), flow, dew point (optional), etc.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: ≤ 40°C)
- Inlet air temperature: ≤ 15°C
- Average outlet dew point: 2% ~ 3%
- Outlet pressure dew point: -20°C ~ -40°C (optional)
- Adsorbent: Activated alumina + high-efficiency molecular sieve
- Ambient temperature: 35°C (2°C ~ 40°C can be used)
- Cooling water temperature: ≤ 32°C
- Cooling water pressure: 0.2 MPa ~ 0.6 MPa



TECHNICAL PARAMETER

Model	Inlet Flow (m³/min)	Connection Size	Piping Diameter	Blower Power (kW)	Dimensions (mm) L x W x H
HRB-ZV/A100	13.5	DN65	12.1		1416×950×2357
HRB-ZV/A120	17.5	DN65	16.7		1620×1000×2389
HRB-ZV/A150	21.5	DN65	19.5		1720×1000×2567
HRB-ZV/A180	25.0	DN80	19.5		1900×1000×2533
HRB-ZV/A200	28.5	DN80	22.8		1900×970×2533
HRB-ZV/A250	32.0	DN80	27.8		2170×1302×2766
HRB-ZV/A300	37.0	DN100	36.5		2412×1560×2792
HRB-ZV/A350	41.5	DN100	36.5		2477×1500×2822
HRB-ZV/A400	45.0	DN100	36.5		2477×1500×2825
HRB-ZV/A450	50.0	DN100	36.5		2480×1500×2825
HRB-ZV/A500	55.0	DN125	57.5		3030×1940×2958
HRB-ZV/A550	60.0	DN125	57.5		3030×1940×3158
HRB-ZV/A600	65.0	DN125	57.5		3030×1940×3160
HRB-ZV/A700	75.0	DN125	57.5		3030×1940×2888
HRB-ZV/A800	85.0	DN125	63.5		3030×1970×3046
HRB-ZV/A900	95.0	DN150	77.5		3306×2189×3078
HRB-ZV/A1000	110.0	DN150	77.5		3356×2150×3078
HRB-ZV/A1200	120.0	DN150	77.5		3570×2319×3130
HRB-ZV/A1400	120.0	DN150	77.5		3570×2319×3130
HRB-ZV/A1400	145.0	DN200	105.5		3668×2584×3330
HRB-ZV/A1600	165.0	DN200	143		3590×2800×3380
HRB-ZV/A1800	185.0	DN200	146.5		4356×2708×3436
HRB-ZV/A2100	210.0	DN200	230.5		4400×2800×3440
HRB-ZV/A2600	260.0	DN250	257.5		4800×3000×3450

Note: For air volume greater than 260 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

03 COMPRESSED AIR ADSORPTION DRYER

Compressed air adsorption dryer

3.5.1 HOC-E Series Micro-Heat Compression Heat Regenerative Adsorption Dryer



WORKING PRINCIPLE

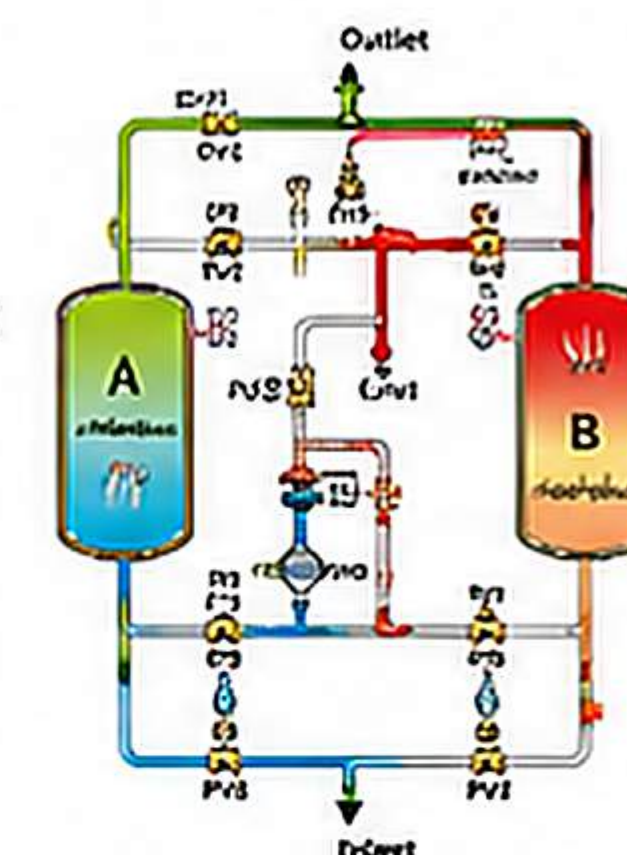
The HOC-E series micro-heat compression heat regenerative adsorption dryer utilizes the heat of the compressor to heat the inlet compressed air and increase the inlet air temperature, enabling more efficient desorption of the adsorbent in the dryer. Due to the addition of a micro-heat system, the adsorbent can be fully desorbed during the regeneration process, minimizing purged air consumption and significantly reducing operating costs.

DESIGN FEATURES

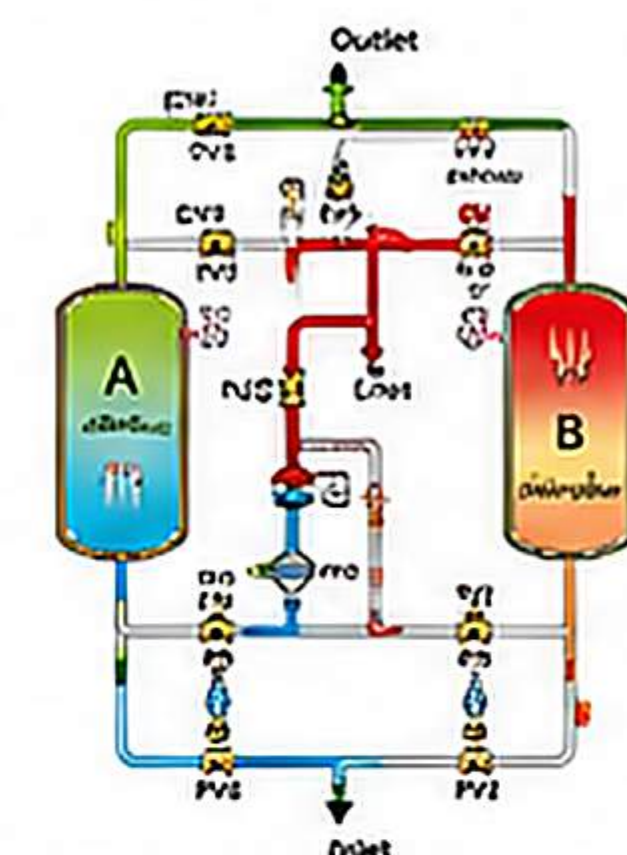
- Communication interface: Standard RS-485 (Modbus) and supports connection to PLC, SCADA, and IoT platforms.
- Energy saving: Driven by EBZ200 multi-stage high-efficiency blower with fixed-cycle control mode, achieving average energy savings of more than 10%.
- High performance: Precision control in adsorption and desorption processes allows 30% more adsorption time.
- High-performance desiccant: 20% higher filling rate.
- Premium components: High-reliability pneumatic actuated valves and HTFS software-designed high-efficiency micro-heat system ensure reliable performance and long service life.
- High-quality welded piping: Aesthetically pleasing.
- Low pressure drop design: Optimized flow distribution reduces pressure drop and minimizes energy consumption.
- Intelligent control: Adjustable parameters include air inlet dew point, heating temperature, regeneration air temperature, A/B tower pressure, blow-down pressure, dew point (optional), etc.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 10°C ~ 30°C
(Limit inlet temperature: 110°C ~ 180°C)
- Annual average ambient temperature: ≤ 33°C
- Outlet pressure dew point: -20°C ~ -40°C (optional)
- Cooling water temperature: ≤ 32°C
- Cooling water pressure: 0.2 MPa ~ 0.6 MPa



Design Schematic (Blower)



Design Schematic (No Blower)

- CV1. Inlet Valve (A)
- CV2. Inlet Valve (B)
- CV3. Outlet Valve (A)
- CV4. Outlet Valve (B)
- PV1. Inlet Check Valve (A)
- PV2. Inlet Check Valve (B)
- PV3. Exhaust Check Valve (A)
- PV4. Exhaust Check Valve (B)
- HS. Heater
- SF. Silencer
- A. Adsorption Tower
- B. Desorption Tower

TECHNICAL PARAMETER

Model	Processing Capacity (m³/min)	Regeneration Air Consumption (m³/min)	Cooling Water Flow (L/min)	Piping Diameter	Dimensions (mm) L x W x H
HOC-E100	13.5	5.5	G1½"	DN65	2050×1350×2550
HOC-E120	17.0	7.0	G1½"	DN65	2050×1350×2550
HOC-E150	21.5	9.0	G1½"	DN65	2100×1350×2550
HOC-E180	25.0	10.5	G2"	DN80	2150×1400×2600
HOC-E200	28.5	11.5	G2"	DN80	2200×1450×2600
HOC-E250	32.0	13.0	G2"	DN80	2300×1500×2700
HOC-E300	37.0	15.0	G2"	DN100	2400×1600×2750
HOC-E350	41.5	17.0	G2"	DN100	2500×1650×2850
HOC-E400	45.0	18.5	DN65	DN100	2600×1700×2910
HOC-E450	50.0	20.5	DN65	DN100	2700×1800×2950
HOC-E500	55.0	22.5	DN65	DN125	2800×1950×2950
HOC-E550	60.0	24.5	DN65	DN125	2900×2050×2950
HOC-E600	65.0	26.8	DN65	DN125	3100×2150×2950
HOC-E700	75.0	31.0	DN80	DN125	3200×2250×3000
HOC-E800	85.0	35.0	DN80	DN125	3300×2300×3050
HOC-E900	95.0	39.0	DN100	DN150	3450×2400×3100
HOC-E1000	110	45.0	DN100	DN150	3800×2700×3350
HOC-E1200	120	49.0	DN100	DN150	3900×2700×3500
HOC-E1400	140	57.5	DN125	DN200	4100×2800×3550
HOC-E1600	160	65.5	DN125	DN200	4200×2850×3600
HOC-E1800	180	74.0	DN125	DN200	4500×3100×3650
HOC-E2100	210	86.0	DN125	DN200	4800×3150×3750
HOC-E2600	260	106.5	DN150	DN250	5000×3250×3800

Note: For air volume greater than 260 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

03 COMPRESSED AIR ADSORPTION DRYER

Compressed air adsorption dryer

3.5.2 HOC-Z Zero-Purge Heat Compression Regenerative Adsorption Dryer



WORKING PRINCIPLE

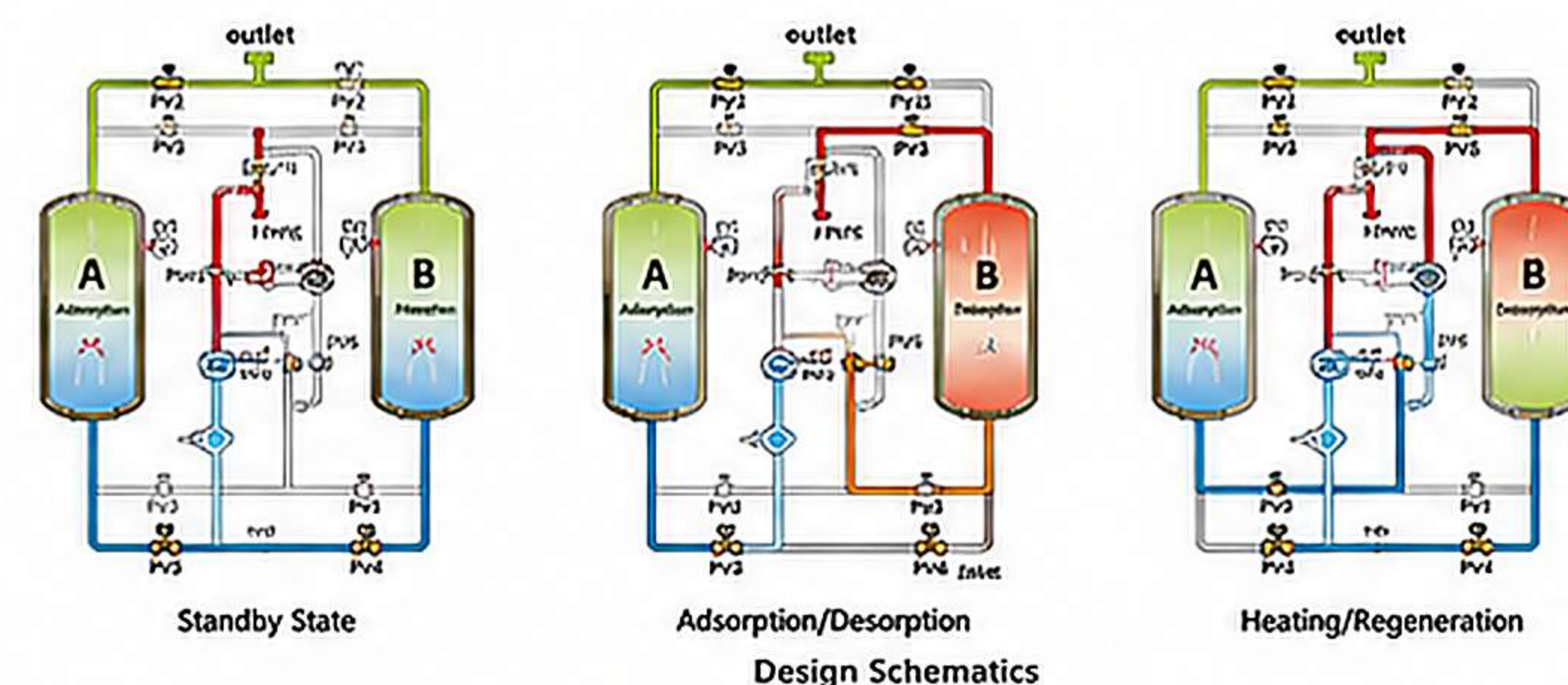
The HOC-Z zero-purge heat compression regenerative adsorption dryer utilizes the heat of the compressor outlet air to increase the adsorbent inlet air temperature and to heat the adsorbent during the adsorption process, thereby enhancing moisture desorption efficiency and achieving zero purge air consumption. Since no purge air and no cooling water are required during the regeneration process, the dryer achieves significant energy savings.

DESIGN FEATURES

- **Intelligent control:** Equipped with instruments to monitor pressure dew point and pressure. Fault alarms enabled.
- **Human-machine interface:** The control system adopts a PLC (Siemens) with RS-485 communication, offering stable and reliable performance.
- **Pneumatic components:** High-quality valves and actuators provide high reliability and long service life.
- **High-efficiency adsorbent:** High-performance molecular sieve with high adsorption capacity and long service life; moisture removal efficiency up to 99%.
- **Automatic operation:** The system automatically regulates the heating temperature and cycle timing of adsorption and desorption, ensuring stable pressure dew point with variations of only 30%~110% of the rated flow.
- **No cooling water required:** No cooling water is needed. Condensation of water vapor is achieved using heat and adsorbent, eliminating the need for cooling water.
- **Zero purge air consumption:** No purge air is used during regeneration, saving energy.
- **Multiple operating modes:** Standard fixed-cycle operation. Optional load adaptive mode can be selected. In load adaptive mode, the system adjusts the heating temperature to enhance safety and reduce energy consumption.
- **Pipeline configuration:** Inlet and outlet pipelines, as well as control valves, are all rigidly connected to reduce leak points.
- **Quality assurance:** The vessels are manufactured in accordance with the pressure vessel standard GB150 and are inspected and tested. Quality certificates are provided.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa (0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 110°C ~ 180°C (Limit inlet temperature: 120°C)
- Annual average ambient temperature: $\leq 33^{\circ}\text{C}$
- Outlet pressure dew point: $-20^{\circ}\text{C} \sim -40^{\circ}\text{C}$ (optional)
- Cooling water temperature: $\leq 32^{\circ}\text{C}$
- Cooling water pressure: 0.2 MPa ~ 0.6 MPa
- Annual average regeneration air consumption: 0%



- CV1. Inlet Valve (A)
- CV2. Inlet Valve (B)
- CV3. Outlet Valve (A)
- CV4. Outlet Valve (B)
- PV1. Inlet Check Valve (A)
- PV2. Inlet Check Valve (B)
- PV3. Exhaust Check Valve (A)
- PV4. Exhaust Check Valve (B)
- HS. Heater
- SF. Silencer
- A. Adsorption Tower
- B. Desorption Tower

TECHNICAL PARAMETER

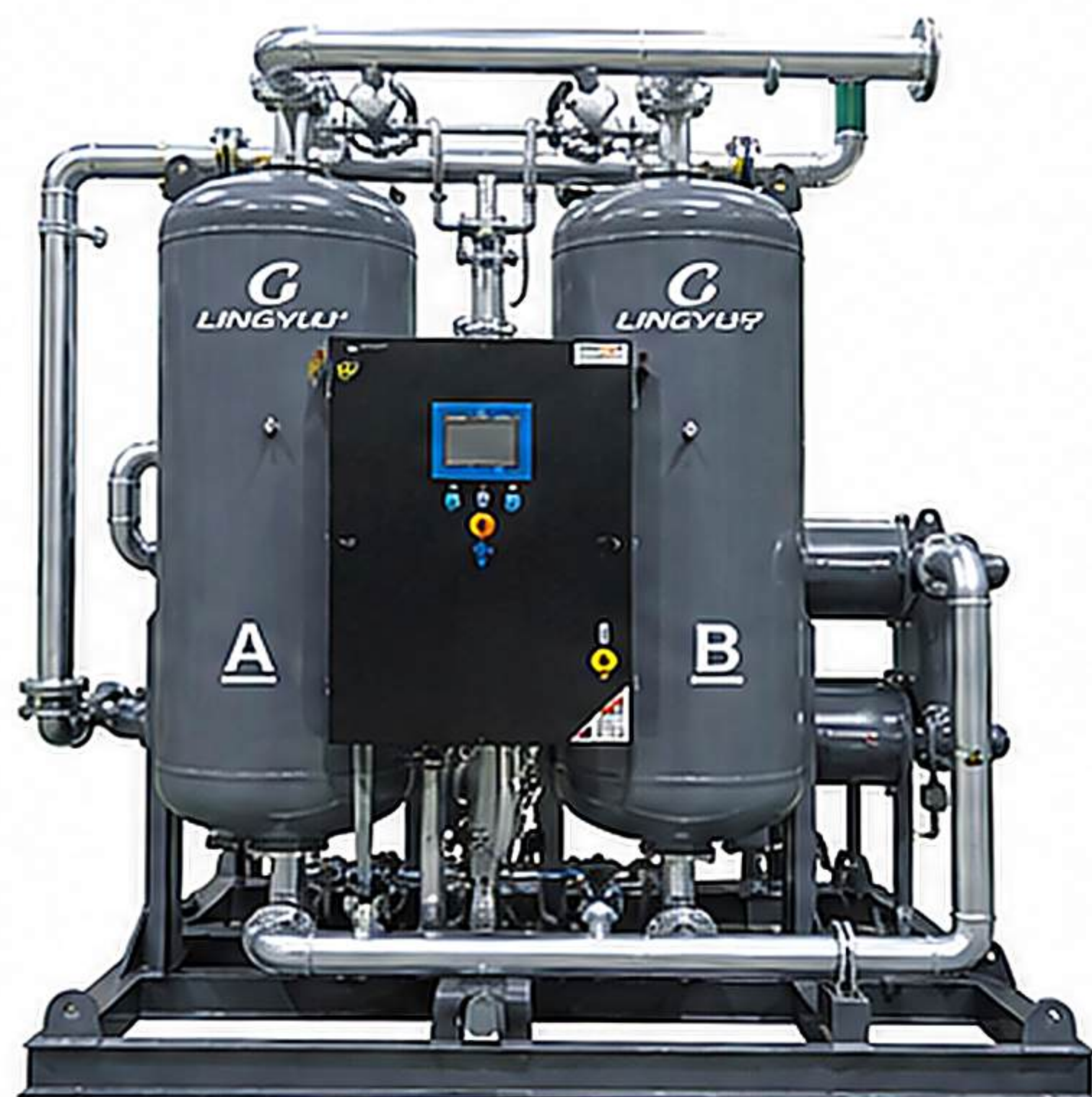
Model	Processing Capacity (m³/min)	Inlet Temperature (°C)	Cooling Water Flow (T/h)	Cooling Water Piping Diameter	Air Piping Diameter	Dimensions (mm) L x W x H
HOC-Z100	13.5	110~180	10	G1½"	DN65	2350×1650×2800
HOC-Z120	17.0	110~180	12.5	G1½"	DN65	2350×1650×2800
HOC-Z150	21.5	110~180	16	G1½"	DN65	2350×1700×2820
HOC-Z180	25.0	110~180	18.5	G2"	DN80	2400×1750×2870
HOC-Z200	28.5	110~180	21	G2"	DN80	2650×1800×2870
HOC-Z250	32.0	110~180	23.5	G2"	DN80	2850×1800×2870
HOC-Z300	37.0	110~180	27	G2"	DN100	2950×1900×3050
HOC-Z350	41.5	110~180	30.5	G2"	DN100	2950×2000×3050
HOC-Z400	45.0	110~180	33	DN65	DN100	3000×2050×3100
HOC-Z450	50.0	110~180	36.5	DN65	DN100	3100×2150×3150
HOC-Z500	55.0	110~180	40	DN65	DN125	3100×2250×3150
HOC-Z550	60.0	110~180	44	DN65	DN125	3200×2350×3150
HOC-Z600	65.0	110~180	47.5	DN65	DN125	3300×2450×3200
HOC-Z700	75.0	110~180	55	DN80	DN125	3400×2450×3200
HOC-Z800	85.0	110~180	62	DN80	DN125	3500×2450×3250
HOC-Z900	95.0	110~180	69.5	DN100	DN150	4050×2400×3490
HOC-Z1000	110	110~180	72	DN100	DN150	4200×2800×3300
HOC-Z1200	120	110~180	72	DN100	DN150	4300×2800×3300
HOC-Z1400	140	110~180	84	DN125	DN200	4500×2850×3500
HOC-Z1600	160	110~180	96	DN125	DN200	4700×2950×3550
HOC-Z1800	180	110~180	108	DN125	DN200	4800×3000×3600
HOC-Z2100	210	110~180	126	DN125	DN200	4850×3100×3700
HOC-Z2600	260	110~180	156	DN150	DN250	5100×3200×3850

Note: For air volume greater than 260 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information.
The above data is for reference only and is subject to change without prior notice.

04 COMPRESSED AIR COMBINED DRYER

Compressed air combined dryer

4.1 DC Series Combined Dryer



WORKING PRINCIPLE

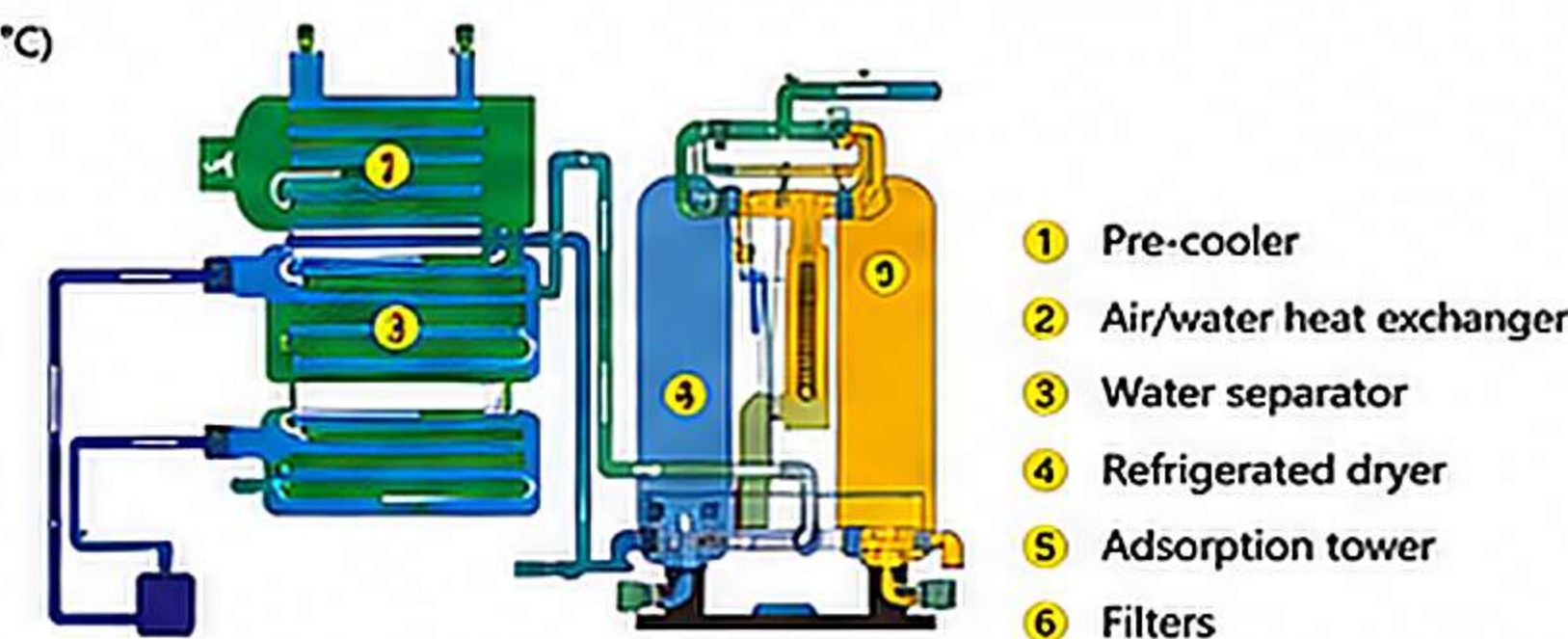
The dryer first removes moisture in the compressed air system by cooling the air, and then the adsorption dryer removes the water vapor from the system. This improves the pressure dew point and ensures a stable dew point. Subsequently, the compressed air enters the adsorption dryer through the air inlet, and the adsorbent removes moisture to further lower the pressure dew point, ensuring the system supplies dry air with a stable, low dew point.

DESIGN FEATURES

- **Advanced integration of cooling and adsorption systems:** By integrating the refrigeration compressor, refrigerated dryer and adsorption dryer, this integrated design eliminates inter-stage piping, minimizing leak points and pressure losses. It enhances creation of a high-quality integrated unit with a smaller footprint, stable and reliable operations, and significant energy savings. The microcomputer control system enables automatic operation monitoring and status display, featuring low power consumption. Adsorption performance is reliable and energy-efficient, providing superior efficiency and lower energy consumption, bringing users higher economic benefits.
- **Skid-mounted integrated design:** Compact and easy to install. Through extensive years of technical R&D, process optimization and equipment modernization, each unit undergoes strict testing before leaving the factory to ensure reliable and superior performance.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 50°C (limit inlet temperature: ≤ 80°C)
- Annual average regeneration air consumption: 0%
- Cooling method: Air-cooled / Water-cooled
- Outlet pressure dew point: ≤ -40°C
- Adsorbent: Activated alumina
- Ambient temperature: 35°C (2°C ~ 45°C can be used)



INSTALLATION SCHEMATIC DIAGRAM

Note: Configuration and pipeline design are subject to specific process requirements and operating conditions.

TECHNICAL PARAMETER DC Series Air-Cooled + CH Series Heatless Adsorption Dryer

Model	Processing Capacity (m³/min)	Rated Power (V/Hz)	Blower Power (kW)	Air Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L x W x H
LY-DC10AHN	1.5	380/50	0.9	G1"	154	1150×680×1692
LY-DC20AHN	2.5	380/50	0.9	G1"	208	1260×940×1700
LY-DC30AHN	3.8	380/50	1.2	G1½"	320	1270×980×1701
LY-DC50AHN	6.5	380/50	1.6	G1½"	460	1340×1030×1713
LY-DC75AHN	10.5	380/50	2.2	G2"	622	1630×1260×1892
LY-DC100AHN	13.5	380/50	2.8	G2"	850	1665×1360×2162
LY-DC120AHN	17.0	380/50	2.9	DN65	930	1665×1355×2175
LY-DC150AHN	21.5	380/50	5.3	DN80	1150	1815×1265×2307
LY-DC180AHN	25.0	380/50	5.3	DN80	1330	1925×1450×2384
LY-DC200AHN	28.5	380/50	5.6	DN80	1630	2045×1559×2311
LY-DC250AHN	32.0	380/50	6.3	DN80	1800	2100×1600×2610
LY-DC300AHN	37.0	380/50	7.9	DN100	2000	2165×1700×2448
LY-DC400AHN	45.0	380/50	10.6	DN100	2750	2200×1842×2541

TECHNICAL PARAMETER DC Series Air-Cooled + CH Series Heatless Regenerative Adsorption Dryer

Model	Processing Capacity (m³/min)	Rated Power (V/Hz)	Blower Power (kW)	Air Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L x W x H
LY-DC10AHH	1.5			G1"		1150×680×1692
LY-DC20AHH	2.5			G1"		1260×940×1700
LY-DC30AHH	3.8			G1½"		1270×980×1701
LY-DC50AHH	6.5			G1½"		1340×1030×1713
LY-DC75AHH	10.5			G2"		1630×1260×1892
LY-DC100AHH	13.5			G2"		1665×1360×2162
LY-DC120AHH	17.0			DN65		1665×1355×2175
LY-DC150AHH	21.5			DN80		1815×1265×2307
LY-DC180AHH	25.0			DN80		1925×1450×2384
LY-DC200AHH	28.5			DN80		2045×1559×2311
LY-DC250AHH	32.0			DN80		2100×1600×2610
LY-DC300AHH	37.0			DN100		2165×1700×2448
LY-DC400AHH	45.0			DN100		2200×1842×2541

Note: For air volume greater than 260 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

04 COMPRESSED AIR COMBINED DRYER

Compressed air combined dryer

4.2 DH Series Combined Dryer



WORKING PRINCIPLE

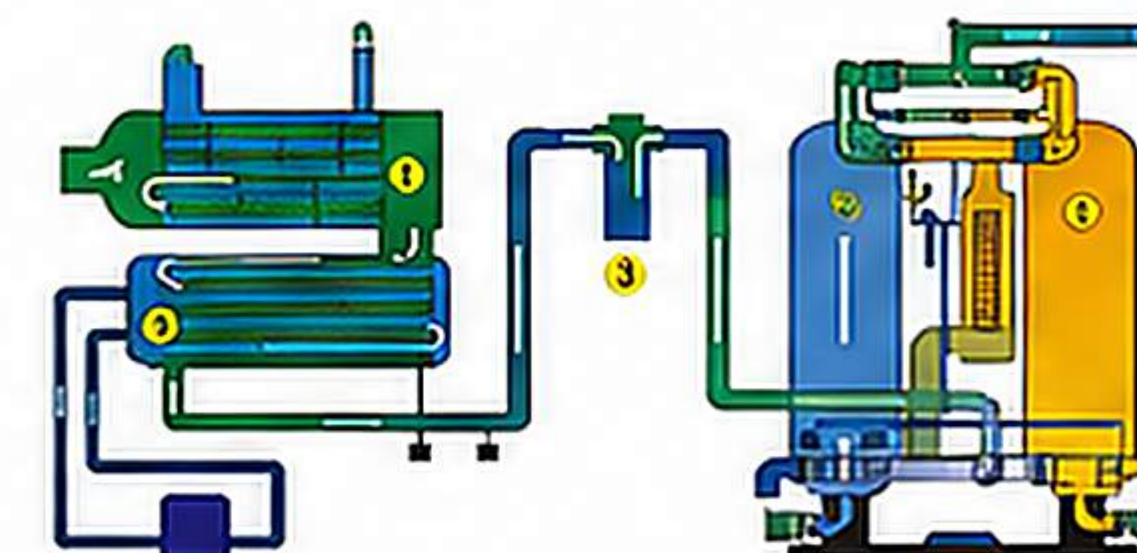
The dryer first removes moisture in the compressed air system by cooling the air, and then the adsorption dryer removes the water vapor from the system. This improves the pressure dew point and ensures a stable dew point. Subsequently, the compressed air enters the adsorption dryer through the air inlet, and the adsorbent removes moisture to further lower the pressure dew point, ensuring the system supplies dry air with a stable, low dew point. The dryer achieves the lowest possible pressure dew point and dry air with lower dew point under the premise of ensuring energy efficiency. The pressure dew point of the compressed air can be precisely adjusted through the control system. Finally, the dryer removes the desorbed moisture and purged air to provide a low dew point and clean compressed air.

DESIGN FEATURES

- **Energy saving:** Uses the dew point difference between the compressor outlet and the dryer outlet to remove moisture, reducing the load of the dryer and extending adsorbent service life. In low load conditions, the combined dryer can automatically switch operating programs to achieve energy saving.
- **Advanced integrated cooling and adsorption system:** The integrated design of the refrigeration compressor, refrigerated dryer and adsorption dryer eliminates inter-stage piping, reduces pressure drop, and improves compressed air quality. High-efficiency components and optimized system integration maximize performance while reducing footprint.
- **State-of-the-art adsorption and control:** The adsorption system is optimally designed with a large adsorption area for high moisture removal efficiency and low pressure drop. The advanced control system provides real-time monitoring, automatic operation, alarm and data display.
- **All-in-one design:** Compact structure, easy installation. Modern manufacturing and extensive testing ensure product quality and reliability.

OPERATING CONDITIONS AND TECHNICAL REQUIREMENTS

- Applicable fluid: Compressed air, non-corrosive and non-flammable gas
- Rated inlet pressure: 0.7 MPa
(0.6 MPa ~ 1.0 MPa allowed. Other pressures subject to customization)
- Rated inlet temperature: 50°C
(Limit inlet temperature: $\leq 80^\circ\text{C}$)
- Annual average regeneration air consumption: 0%
- Cooling method: Air-cooled / Water-cooled
- Outlet pressure dew point: $\leq -40^\circ\text{C}$
- Adsorbent: Activated alumina
- Ambient temperature: 35°C ($2^\circ\text{C} \sim 45^\circ\text{C}$ can be used)



INSTALLATION SCHEMATIC DIAGRAM

Note: Configuration and pipeline design are subject to specific process requirements and operating conditions.

TECHNICAL PARAMETER DH Series Air-Cooled + AH Series Heatless Adsorption Dryer

Model	Processing Capacity (m³/min)	Power Supply (V/Hz)	Blower Power (kW)	Air Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L x W x H
LY-DH10AHN	1.5	380/50	0.9	G1"	182	1260×762×1803
LY-DH20AHN	2.5	220/50	0.9	G1"	263	1260×940×1700
LY-DH30AHN	3.8	220/50	1.2	G1½"	420	1345×1030×1713
LY-DH50AHN	6.5	220/50	1.6	G1½"	574	1455×1160×1847
LY-DH75AHN	10.5	220/50	2.3	G2"	782	1665×1295×2175
LY-DH100AHN	13.5	380/50	2.8	G2"	980	1665×1366×2225
LY-DH120AHN	17.0	380/50	2.9	DN65	1072	1725×1346×2384
LY-DH150AHN	21.5	380/50	5.2	DN80	1399	1955×1459×2465
LY-DH180AHN	25.0	380/50	5.3	DN80	1554	1955×1459×2466
LY-DH200AHN	28.0	380/50	5.6	DN80	1820	2070×1560×2460
LY-DH250AHN	32.0	380/50	6.3	DN80	2010	2115×1600×2640
LY-DH300AHN	37.0	380/50	7.9	DN100	2316	2140×1760×2680
LY-DH400AHN	45.0	380/50	10.6	DN100	2750	2200×1842×2541

TECHNICAL PARAMETER AH Series Air-Cooled + HH Series Heat-Regenerative Adsorption Dryer

Model	Processing Capacity (m³/min)	Power Supply (V/Hz)	Blower Power (kW)	Air Outlet Connection	Equipment Weight (kg)	Dimensions (mm) L x W x H
LY-DH10AHH	1.5	380/50	2.3	G1"	187	1260×762×1803
LY-DH20AHH	2.5	380/50	2.5	G1"	270	1260×940×1700
LY-DH30AHH	3.8	380/50	3.6	G1½"	430	1345×1030×1713
LY-DH50AHH	6.5	380/50	5.0	G1½"	580	1455×1160×1847
LY-DH75AHH	10.5	380/50	5.7	G2"	890	1665×1295×2175
LY-DH100AHH	13.5	380/50	9.1	G2"	1090	1665×1366×2225
LY-DH120AHH	17.0	380/50	13.0	DN65	1255	1725×1346×2384
LY-DH150AHH	21.5	380/50	15.1	DN80	1420	1955×1459×2465
LY-DH180AHH	25.0	380/50	15.3	DN80	1720	1950×1459×2466
LY-DH200AHH	28.5	380/50	15.8	DN80	1970	2070×1560×2460
LY-DH250AHH	32.0	380/50	19.2	DN80	2070	2115×1600×2640
LY-DH300AHH	37.0	380/50	21.1	DN100	2540	2140×1760×2680
LY-DH400AHH	45.0	380/50	27.0	DN100	2830	2200×1842×2541

Note: For air volume greater than 260 m³/min or special specifications, materials, or temperature requirements, please contact our company or dealer for technical information. The above data is for reference only and is subject to change without prior notice.

PARTIAL PROJECTS

Project Owner 1: XX Huayi Co., Ltd. — Grade-1 Compressed Air System for a Compressor Station
(Actual On-site Photo)



Air Flow	6×150 m³/min
Equipment Configuration	D Series High-Efficiency Coalescing Filter + Adsorption Dryer
Project Requirements	Requirement: This project is a grade-1 compressed air system, used for pneumatic conveying and control of instruments and valves. The dew point must be ≤ -40°C, the residual oil content ≤ 0.01 ppm, and the particle size ≤ 1 μm.
Solution Advantages	Customized a combined filtration and drying system to ensure stability and continuous supply of grade-1 compressed air, with the following advantages: ① Low pressure drop and high purification efficiency; ① Stable operation and reliable performance; ① Long service life of filter elements; ① Low operating cost.

Project Owner 2: XX Food Co., Ltd. (Actual On-site Photo)



Air Flow	10×65 m³/min
Equipment Configuration	Carbon Molecular Sieve Nitrogen Generator
Project Requirements	Requirement: The project requires on-site production of nitrogen for food packaging. Nitrogen purity ≥ 99.99%, dew point ≤ -40°C, residual oil content ≤ 0.01 ppm, particle size ≤ 1 μm, oil content ≤ 0.1 mg/m³.
Solution Advantages	A customized nitrogen generator system was provided with the following advantages: ① High nitrogen purity, meeting food-grade standards; ① Fully automated operation, easy to use; ① Energy saving and consumption reduction; ① Stable nitrogen supply, low maintenance cost; ① Modular design for flexible expansion; ① Dual adsorbers for parallel operation to ensure uninterrupted nitrogen supply.

Project Owner 3: XX Optoelectronics Co., Ltd. (Actual On-site Photo)



Air Flow	8×220 m³/min
Equipment Configuration	D Series High-Efficiency Coalescing Filter + Refrigerated Dryer
Project Requirements	Requirement: Used for clean compressed air in precision production. Dew point ≤ 2-10°C, residual oil content ≤ 0.01 ppm, particle size ≤ 1 μm, oil content ≤ 0.1 mg/m³.
Solution Advantages	Combined solution to ensure a stable and clean air supply with the following advantages: ① High purification efficiency, stable dew point control; ① Low pressure drop and energy saving; ① Filter elements made of high-quality materials with long service life; ① Easy installation and maintenance; ① High cost-effectiveness.

Project Owner 4: XX Electric Co., Ltd. — Compressed Air System for Explosion-Proof Dryers
(Actual On-site Photo)



Air Flow	4×85 m³/min
Equipment Configuration	Explosion-Proof Refrigerated Dryer (Water-Cooled)
Project Requirements	Requirement: For uses in explosive gas environments. Dew point ≤ 2-10°C, residual oil content ≤ 0.01 ppm, particle size ≤ 1 μm, oil content ≤ 0.1 mg/m³.
Solution Advantages	Explosion-proof design, safe and reliable operation; meets Class IIB T3 explosion-proof requirements; ① Efficient cooling, stable dew point control; ① Intelligent control with fault alarm; ① Stainless steel heat exchanger with long service life; ① Equipped with RS-485 communication interface for remote monitoring.

Project Owner 5: XX Energy Technology Co., Ltd. (Actual On-site Photo)



Air Flow	6×50 m³/min
Equipment Configuration	Stainless Steel Carbon Molecular Sieve Nitrogen Generator
Project Requirements	Requirement: For clean nitrogen used in lithium battery production. Nitrogen purity ≥ 99.99%, dew point ≤ -40°C, residual oil content ≤ 0.01 ppm, particle size ≤ 1 μm, oil content ≤ 0.1 mg/m³.
Solution Advantages	Stainless steel nitrogen generator system with the following advantages: ① High purity and stability; ① Stainless steel material, corrosion-resistant and long service life; ① No consumables, low operating cost; ① Intelligent control with remote monitoring; ① Dual-tower design for parallel operation, ensuring stable nitrogen supply; ① Outlet pressure and flow adjustable; ① Applications: lithium battery production, chemical industry, electronics, etc.

Project Owner 6: XX Lithium Co., Ltd. (Actual On-site Photo)



Air Flow	6×110 m³/min
Equipment Configuration	D Series Coalescing Filter + Refrigerated Dryer
Project Requirements	Requirement: For clean air in lithium battery production. Dew point ≤ 2-10°C, residual oil content ≤ 0.01 ppm, particle size ≤ 1 μm, oil content ≤ 0-0.1 mg/m³.
Solution Advantages	Combined solution to ensure a stable and clean air supply with the following advantages: ① High purification efficiency and stable dew point control; ① Low pressure drop and energy-saving operation; ① Filter elements made of high-quality materials with long service life; ① Outlet pressure and flow adjustable; ① Applications: lithium battery production, pneumatic conveying, A/B tank pressurization, etc.; ① Stainless steel structure: corrosion-resistant and durable.

CASES



End User New Energy Materials
Equipment Dual-tower heatless air dryer
2 sets (60 m³/min per set)



End User Water Treatment Industry
Equipment Refrigerated dryer
5 sets (45 m³/min per set)



End User Pharmaceutical Co., Ltd.
Equipment Refrigerated dryer
4 sets (28.5 m³/min per set)



End User Chemical Plant
Equipment Heatless dryer
1 set (40 m³/min)



End User New Energy Materials
Equipment Heatless dryer
9 sets (200 m³/min per set)



End User New Energy Industry
Equipment Refrigerated dryer
8 sets (55 m³/min per set)



End User Chemical Plant
Equipment Refrigerated dryer
8 sets (250 m³/min per set)



End User Power Plant
Equipment Refrigerated dryer
2 sets (75 m³/min per set)



End User Automotive
Equipment Refrigerated dryer
5 sets (3 m³/min per set)

① Petrochemical Industry ② New Energy & Automotive ③ Machinery Manufacturing ④ Metallurgical Industry



End User Extra-high Voltage Industry
Equipment Refrigerated dryer
50 sets (50 m³/min per set)



End User New Energy Industry
Equipment Heatless dryer
3 sets (60 m³/min per set)



End User New Energy Industry
Equipment Refrigerated dryer
5 sets (60 m³/min per set)



End User New Energy Industry
Equipment Heatless dryer
12 sets (220 m³/min per set)



End User Chemical Fiber Company
Equipment Refrigerated dryer
6 sets (205 m³/min per set)



End User New Materials
Equipment Refrigerated dryer
5 sets (55 m³/min per set)



End User Battery Industry
Equipment Heatless dryer
3 sets (85 m³/min per set)



End User Pharmaceutical Industry
Equipment Refrigerated dryer
10 sets (45 m³/min per set)



End User Food & Beverage
Equipment Heatless dryer
4 sets (45 m³/min per set, 40 bar)

⑤ Electronics Industry ⑥ Military Industry ⑦ Textile & Printing Industry ⑧ Food & Pharmaceutical Industry

■ LINGYU SERVICES



■ SERVICE CONTENT

- Provide free pre-sales consultation;
- On-site commissioning, maintenance, and upkeep of equipment;
- On-site troubleshooting and customized maintenance solutions.

■ COMPLETE ACCESSORIES

- **Air Treatment Components**
Air filters, regulators, coolers, steam traps, dryers, precision filters, silencers, air tanks, pressure gauges, pipeline filters, condensate drains, fittings, etc.
- **Valve Category**
Valves, solenoid valves, angle seat valves, safety valves, check valves, electric actuators, pneumatic actuators, etc.
- **Other Accessories**
Filter elements, filter housings, pressure vessels, etc.

■ SERVICE INDUSTRIES AND CUSTOMERS

Electronics Industry						
Power Industry						
Home Appliance Industry						
Aviation Industry						
Railway Industry						
Machinery Industry						
Automotive Industry						
New Energy Industry						

Note: The above are representative customers from our cooperation.