LINGYU 凌宇

—COMPRESSED AIR SYSTEM—

ZHONGSHAN LINGYU MACHINERY CO., LTD.

Main Product:

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

Corporate mission:

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

Corporate vision:

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

Corporate development philosophy:

Technology-supported value-driven

Marketing strategy:

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

HOC SERIES

LOW GAS CONSUMPTION TYPE

COMPRESSION HEATED ADSORPTION AIR DRYER

Design Features

Communication capabilities support RS-485 (standard) and IoT connectivity to meet diverse user requirements.

Energy saving: A self-developed EBZ200-2 multi-core drive is adopted. Compared with fixed-cycle control modes, it reduces overall energy consumption by more than 10%.

Optional dew point energy-saving control: Under fluctuating load conditions, adsorption time is extended, reducing total energy consumption by over 30%.

Customized high-performance adsorbents are used, with a 20% filling margin for enhanced reliability and extended service life.

High-performance pneumatic valves and high-efficiency coolers designed using HTFS software ensure reliable performance and long service life.

Metal control air piping is adopted, offering a clean and professional appearance.

Specially designed flow distributors provide high adsorbent utilization efficiency and low gas pressure drop.

A Siemens touchscreen programmable controller enables dynamic monitoring of operating processes. Collected signals include air outlet temperature, heater temperature, regeneration exhaust temperature, A/B tower pressure, blower pressure, and pressure dew point (optional).

Operating Conditions

Applicable Fluids: Compressed air, non-corrosive air

Rated Inlet Pressure: 0.7 MPa (0.6–1.0 MPa, customizable)

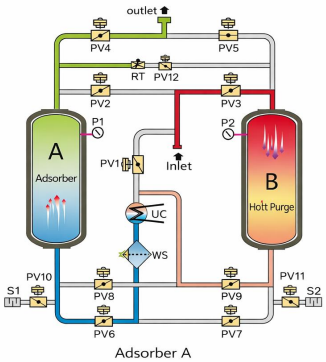
Rated Inlet Temperature: 120°C (allowable 110–180°C)

Regeneration Gas Consumption: ≤ 3%

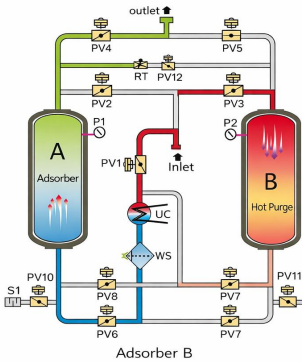
Outlet Pressure Dew Point: -20°C / -40°C (optional)

Cooling Water Temperature: ≤ 32°C

Cooling Water Pressure: 0.2–0.6 MPa



Adsorber A



Adsorber B

Technical Parameters

ZERO TYPE SHEET

Model	Capacity (m³/min)	Cooling Water Flow (T/h)	Cooling Water Connection	Gas Connection	Dimensions (mm)
HOC-E100	13.5	5.8	G1.2"	DN50	1600*1100*2380
HOC-E120	17	7.3	G1.2"	DN65	1750*1200*2450
HOC-E150	21.5	9.2	G1-½"	DN80	1850*1300*2480

HOC-E180	25	10.8	G1-½"	DN80	1900*1350*2580
HOC-E200	28.5	12.3	G1-½"	DN80	1900*1350*2760
HOC-E250	32	13.8	G2"	DN80	2000*1450*2630
HOC-E300	37	16	G2"	DN100	2200*1500*2700
HOC-E350	41.5	17.2	G2"	DN100	2200*1500*2830
HOC-E400	45	19.4	G2.5"	DN100	2200*1600*2880
HOC-E450	50	21.5	G2.5"	DN100	2400*1700*2750
HOC-E500	55	23.7	G2.5"	DN125	2400*1700*2850
HOC-E550	60	26	G2.5"	DN125	2400*1700*2950
HOC-E600	65	28	G2.5"	DN125	2650*1800*2800
HOC-E700	75	32.3	G2.5"	DN125	2650*1800*2900
HOC-E800	85	36.6	DN80	DN125	2650*1900*2950
HOC-E900	95	41	DN80	DN150	2800*2000*2900
HOC-E1000	110	47.3	DN100	DN150	3500*2300*2900
HOC-E1200	120	51.6	DN100	DN150	3800*2300*2950
HOC-E1400	140	60.3	DN125	DN150	4200*2400*2900
HOC-E1600	160	69	DN125	DN200	4450*2450*2950
HOC-E1800	180	77.5	DN150	DN200	4750*2500*2980
HOC-E2100	210	90.4	DN150	DN200	5000*2700*2950
HOC-E2600	260	112	DN150	DN250	5300*2900*3000

Note: For air volumes exceeding **260 m³/min** or for special specifications, including materials or temperature requirements, please contact our company or authorized distributors. All data are for reference and may change without prior notice.

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HOC SERIES

ZERO GAS CONSUMPTION TYPE

COMPRESSION HEATED ADSORPTION AIR DRYER

Design Features

EEquipped with a dew point transmitter, adjustable between atmospheric dew point and pressure dew point, ensuring stable and accurate dew point control.

The display controller adopts a Siemens touchscreen with an RS-485 communication interface and provides the corresponding communication protocol.

The pneumatic valve control solenoid valves use a dual-coil design in combination with double-offset, high-temperature-resistant, high-performance butterfly valves, and are equipped with valve position feedback switches. In the event of abnormal shutdown or power failure, the valves can maintain their operating position; short-term maintenance does not interrupt airflow, providing enhanced reliability.

The opening of the flow distribution valve is automatically adjusted based on airflow rate and heating temperature, enabling fully automatic intelligent control. The system can adapt to load variations from 30% to 110%, ensuring stable overall performance.

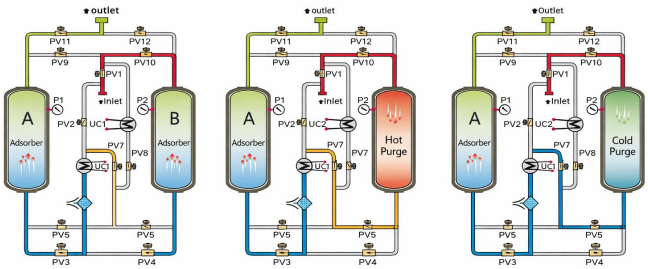
A liquid level sensor is added for condensate drainage. When the accumulated water reaches the alarm level, forced sludge discharge and drainage are automatically activated. The water level of the storage tank is dynamically displayed on the touchscreen. Manual forced drainage and timed automatic forced drainage are supported, ensuring reliable and secure drainage performance.

A seamless switching mode between split-flow and full-flow operation is adopted. The cooling purge air provides a certain desorption effect, allowing a reduction in heating temperature, improving operational safety and reducing energy consumption to a certain extent.

Inlet and outlet differential pressure display and alarm functions are provided. When the differential pressure exceeds the preset value, the system enters an emergency mode with both towers operating in parallel, ensuring a high level of safety.

The piping adopts a hot-dip galvanizing process, providing up to 10 years of corrosion and rust resistance, significantly extending the service life of the unit while preventing drain valve blockage.

For connection pipelines larger than DN150, the system is integrated with the pressure vessels to form a skid-mounted pressure-bearing assembly, with inspection and certification documentation provided.



Standby State | Heating Process | Cooling Process

Operating Conditions

Applicable Fluids: Compressed air, non-corrosive air

Rated Inlet Pressure: 0.7 MPa (customizable 0.6–1.0 MPa)

Rated Inlet Temperature: 120℃ (allowable 110–180℃)

Outlet Pressure Dew Point: -20℃ / -40℃ optional

Cooling Water Temperature: ≤32℃

Cooling Water Pressure: 0.2–0.6 MPa

Technical Parameters

ZERO TYPE SHEET

Model	Capacity (m³/min)	Inlet Temp (℃)	Cooling Water Flow (T/h)	Inlet/Outlet	Gas Connection	Dimensions (mm)
HOC-Z100	13.5	110–180	8	G1″	DN50	1600×1150×2380
HOC-Z120	17	110–180	10	G1″	DN65	1750×1600×2550
HOC-Z150	21.5	110–180	13	G1½”	DN80	1950×1450×2450
HOC-Z180	25	110–180	15	G1½”	DN80	2200×1650×2450
HOC-Z200	28.5	110–180	17	G1½”	DN80	2200×1700×2620
HOC-Z250	32	110–180	19	G2″	DN80	2300×1700×2750
HOC-Z300	37	110–180	25	G2″	DN100	2400×1800×2780
HOC-Z350	41.5	110–180	26	G2″	DN100	2500×1900×2850
HOC-Z400	45	110–180	27	G2½”	DN100	2500×2400×3350
HOC-Z450	50	110–180	30	G2½”	DN100	2600×1950×2850
HOC-Z500	55	110–180	33	G2½”	DN125	2650×1980×2850
HOC-Z550	60	110–180	36	G2½”	DN125	2800×2150×2950
HOC-Z600	65	110–180	40	G2½”	DN125	2800×2100×2950
HOC-Z700	75	110–180	45	DN80	DN125	2900×2200×3050
HOC-Z800	85	110–180	51	DN80	DN125	2950×2250×3250
HOC-Z900	95	110–180	57	DN80	DN150	3200×2400×3350
HOC-Z1000	110	110–180	65	DN100	DN150	3500×2400×2950
HOC-Z1200	120	110–180	72	DN100	DN150	3800×2600×2950
HOC-Z1400	140	110–180	78	DN125	DN150	4200×2750×2900
HOC-Z1600	160	110–180	86	DN125	DN200	4450×3000×2950

HOC-Z1800	180	110–180	100	DN125	DN200	4750×3100×2980
HOC-Z2100	210	110–180	116	DN125	DN200	5000×3200×2950
HOC-Z2600	260	110–180	145	DN125	DN250	5300×3300×3000

Note: For air volumes exceeding **260 m³/min** or for special specifications, including materials or temperature requirements, please contact our company or authorized distributors. All data are for reference and may change without prior notice.

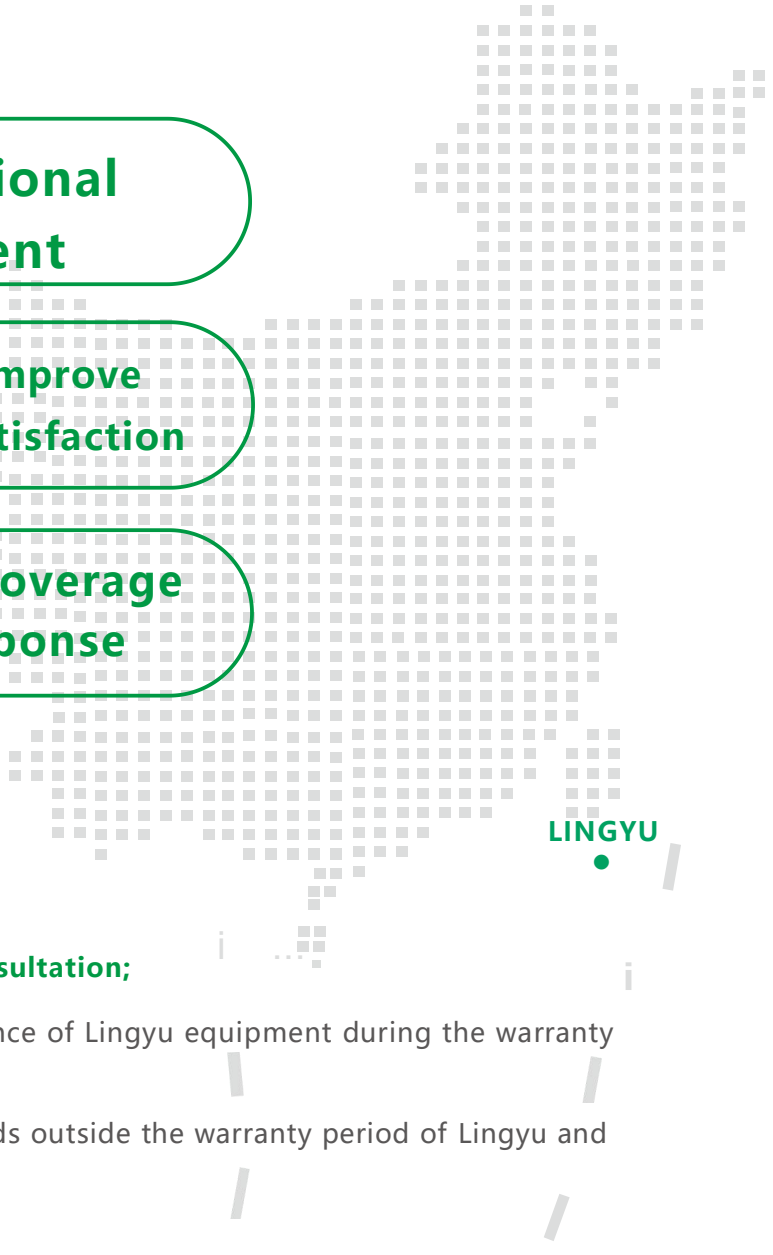
OUR SERVICES

LINGYU Services

Professional efficient

Strive to improve customer satisfaction

National coverage fast response



Service Content

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

Complete Accessories

- **Refrigerated air dryer**

  Fans, compressors, condensers, evaporators, dry filters, expansion valves, bypass valves, pressure gauges, various drains, etc.
- **Adsorption air Dryers**

  Valves, electrical boxes, adsorbents, diffusers, silencers, solenoid valves, check valves, etc.
- **Other accessories**

  Various filter elements, differential pressure gauges, etc.

CONTACT US

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