

**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

# HH SERIES

## HEATLESS REGENERATION ADSORPTION AIR DRYER

### ■ Operating conditions

**Applicable fluids:** compressed air, non-corrosive air

**Rated air inlet pressure:** 0.7 MPa

(0.6 MPa ~ 1.0 MPa is allowed, other pressure levels can be customized)

**Rated air inlet temperature:** 10°C ~ 30°C

(**Limit air temperature:** ≤ 40°C)

**Average regeneration gas consumption:** 8% ~ 14%

**Outlet pressure dew point:** ≤ 40°C

**Adsorbent:** High-quality activated alumina

**Rated ambient temperature:**

35°C (Can be used at 2°C ~

45°C)



### ■ Design Features

**High-performance pneumatic valves are employed, delivering reliable operation, sensitive response, fast and dependable switching, and long service life;**

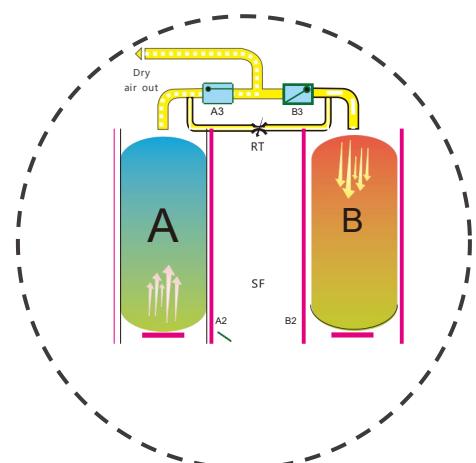
Large-torque aluminum alloy pneumatic actuators are used, providing high torque output with smooth and stable motion.

High-performance adsorbents are applied, featuring strong adsorption capacity and excellent wear resistance, ensuring long-term stable pressure dew point without degradation or pulverization.

A fully electronic programmable controller is adopted, equipped with a Chinese-language interface that is clear, intuitive, and easy to operate and maintain.

Low operating noise is achieved through the use of silent-type check valves and high-performance mufflers, ensuring noise is minimized throughout operation and during exhaust.

An automatic pressurization function is incorporated: prior to valve switching, the vessels are automatically pressurized and pressure-balanced, enabling switching only after equalization. This ensures stable vessel pressure, prevents pipeline pressure fluctuations from impacting the adsorbent, and effectively extends the service life of the adsorbent.



### ■ Technical Parameters

Model	Capacity (m³/min)	Voltage (V/Hz)	Power (kW)	Inlet/Outlet	Weight (kg)	HEATLESS HH SERIES	
						Dimensions (mm)	
LY-HH10NX	1.5	220/50	0.1	G1"	175	725x630x1795	
LY-HH20NX	2.5	220/50	0.1	G1"	310	840x570x1695	
LY-HH30NX	3.8	220/50	0.1	G1½"	430	1020x610x1690	
LY-HH50NX	6.5	220/50	0.1	G1½"	522	1160x680x1860	
LY-HH75NX	10.5	220/50	0.1	G2"	580	1200x720x2180	
LY-HH100NX	13.5	220/50	0.1	G2"	720	1260x780x2230	
LY-HH120NX	17.0	220/50	0.1	DN65	820	1350x930x2440	
LY-HH150NX	21.5	220/50	0.1	DN80	1000	1470x1000x2270	
LY-HH180NX	25.0	220/50	0.1	DN80	1100	1460x1000x2470	

LY-HH200NX	28.5	220/50	0.1	DN80	1180	1560×1070×2450
LY-HH250NX	32.0	220/50	0.1	DN80	1350	1600×1050×2650
LY-HH300NX	37.0	220/50	0.1	DN100	1420	1700×1100×2680
LY-HH350NX	41.5	220/50	0.1	DN100	1550	1830×1150×2700
LY-HH400NX	45.0	220/50	0.1	DN100	1670	1830×1150×2790
LY-HH450NX	50.0	220/50	0.1	DN100	1790	2040×1240×2780
LY-HH500NX	55.0	220/50	0.1	DN100	2000	2040×1240×2875
LY-HH550NX	60.0	220/50	0.1	DN100	2120	2130×1300×2790
LY-HH600NX	65.0	220/50	0.1	DN125	2320	2210×1340×2970
LY-HH700NX	75.0	220/50	0.1	DN125	2500	2350×1380×2920
LY-HH800NX	85.0	220/50	0.1	DN125	2850	2350×1380×2920
LY-HH900NX	95.0	220/50	0.1	DN150	3000	2446×1430×3170
LY-HH1100NX	110	220/50	0.1	DN150	4300	2610×1580×3060
LY-HH1300NX	130	220/50	0.1	DN150	5100	2900×1400×3079

**Note:** Customized models are available for air flow above 130 m<sup>3</sup>/min or when special materials, specifications, or inlet temperature requirements are needed. All data is subject to change without prior notice.



# CH SERIES

## HEATLESS REGENERATION ADSORPTION AIR DRYER

### ■ Operating conditions

**Applicable fluids:** compressed air, non-corrosive air

**Rated air inlet pressure:** 0.7 MPa

(0.6 MPa ~ 1.0 MPa is allowed, other pressure levels can be customized) **Rated air inlet temperature:** 10°C ~ 35°C

(**Limit air temperature:** ≤ 40°C)

**Average regeneration gas consumption:** 8% ~ 14%

**Outlet pressure dew point:** -50°C to -20°C

**Adsorbent:** High-quality activated alumina

**Rated ambient temperature:**

35°C (Can be used at 2°C ~

45°C)

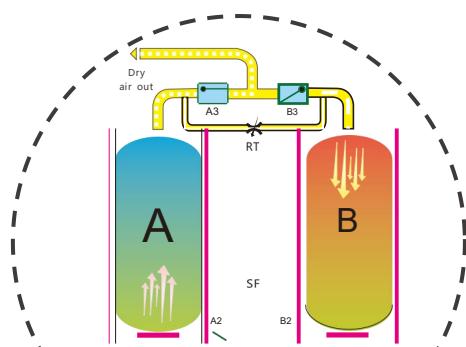


### ■ Design Features

**A high-performance pneumatic valves are adopted, offering reliable performance, fast and precise actuation, quick and dependable switching, and long service life.:**

Large-torque aluminum alloy pneumatic actuators are used, providing high output torque and smooth, stable operation.

High-performance adsorbents are applied, featuring strong adsorption capacity and excellent wear resistance, ensuring long-term stable pressure dew point without pulverization.



A fully electronic programmable controller is employed, with a Chinese-language interface that is intuitive and easy to understand, facilitating operation and maintenance.

Low operating noise is achieved through the use of silent-type check valves and high-performance mufflers, ensuring that noise is minimized throughout operation and during exhaust.

An automatic pressurization function is incorporated: before valve switching, the vessels are automatically pressurized and equalized, allowing switching only after pressure balancing. This ensures stable vessel pressure, prevents pressure fluctuations in the pipeline from impacting the adsorbent, and effectively extends the service life of the adsorbent.

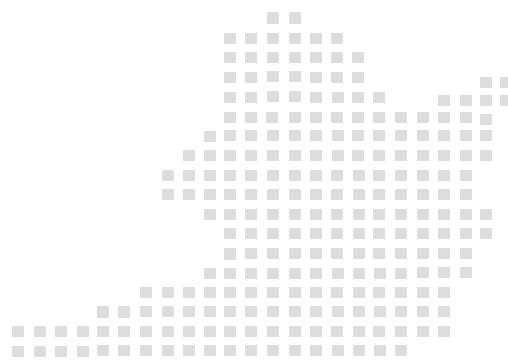
## ■ Technical Parameters

Model	Capacity (m <sup>3</sup> /min)	Voltage (V/Hz)	Power (kW)	Inlet/Outlet	Weight (kg)	HEATLESS HH SERIES
						Dimensions (mm)
LY-CH30NX	3.8	220/50	0.1	G1 1/2"	175	840×570×1690
LY-CH50NX	6.5	220/50	0.1	G1 1/2"	310	1020×610×1710
LY-CH75NX	10.5	220/50	0.1	G2"	430	1160×680×1900
LY-CH100NX	13.5	220/50	0.1	G2"	522	1160×680×2200
LY-CH120NX	17	220/50	0.1	DN65	580	1195×720×2175
LY-CH150NX	21.5	220/50	0.1	DN80	720	1280×980×2310
LY-CH180NX	25	220/50	0.1	DN80	820	1350×930×2450
LY-CH200NX	28.5	220/50	0.1	DN80	1000	1460×1060×2320
LY-CH250NX	32	220/50	0.1	DN80	1100	1460×1060×2510
LY-CH300NX	37	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	220/50	0.1	DN100	1420	1765×1160×2550
LY-CH450NX	50	220/50	0.1	DN100	1550	1765×1160×2750
LY-CH500NX	55	220/50	0.1	DN100	1670	1825×1150×2690
LY-CH550NX	60	220/50	0.1	DN100	1790	1825×1150×2790
LY-CH600NX	65	220/50	0.1	DN125	2000	2040×1240×2820
LY-CH650NX	70	220/50	0.1	DN125	2120	2040×1240×2920
LY-CH700NX	75	220/50	0.1	DN125	2320	2136×1240×2930
LY-CH800NX	85	220/50	0.1	DN125	2500	2210×1350×2970
LY-CH900NX	95	220/50	0.1	DN150	2850	2330×1430×3250
LY-CH1100NX	110	220/50	0.1	DN150	3000	2450×1430×2980
LY-CH1300NX	130	220/50	0.1	DN150	4300	2610×1580×3055
LY-CH1500NX	150	220/50	0.1	DN200	5100	2900×1400×3211

**Note:** Customized models are available for air flow above 150 m<sup>3</sup>/min or when special materials, specifications, or inlet temperature requirements are needed. All data is subject to change without prior notice.

# OUR SERVICES

## ■ LINGYU Services





**Strive to improve  
customer satisfaction**



**National coverage  
fast response**

LINGYU

## ■ 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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