

# SAFE

Safe Air Flow Engineering®

## HL Series Air Dryer

HL Series



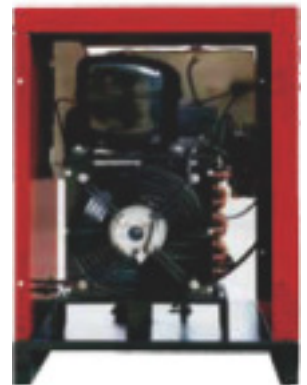
## Features

- **Energy-saving:** The design of aluminum alloy three-in-one heat exchanger minimizes the process loss of cooling capacity and improves the recycling of cooling capacity. Under the same processing capacity, the total input power of this model is reduced by 15%~30%.
- **Efficient:** The integrated heat exchanger incorporates a flow guiding fin to make the compressed air exchange heat evenly inside. It is oil-free, water-free and dust-free. The built-in gas-water separation device is equipped with a stainless steel filter mesh to make the water separation more completely.
- **Intelligent:** Multi-channel temperature and pressure monitoring, real-time display of dew point temperature, automatic recording of accumulated running time, self-diagnosis function, display corresponding alarm code, and automatic protection of equipment.
- **Environmental protection:** In response to the international Montreal agreement, all models in this series use R134a and R407c environmentally friendly refrigerants, which have zero damage to the atmosphere and meet the needs of the international market.
- **Stable:** Standard constant pressure expansion valve, standard intelligent temperature control, laboratory test, when the intake air temperature reaches 45°C, the ambient temperature reaches 42°C, it is still stable operation, with temperature and pressure double antifreeze protection; When the equipment runs at low power for a long time, the energy regulating valve will automatically control the cooling output of the compressor, keep the pressure dew point stable, and prolong the service life of the equipment while saving energy.

## Working Conditions

- Rated ambient temperature: 38 ° C, max. 42 ° C.
- Rated compressed air inlet temperature: 38 ° C, max.45 ° C
- Rated compressed air pressure: 0.7Mpa, HL010~HL 120 max. 1.6Mpa, HL 150~HL800 max.1.25Mpa
- Pressure dew point under rated conditions: 2 ° C ~ 10 ° C (atmospheric dew point: -23 ° C ~ -17 ° C)
- Installed environment: no sun, no rain, good ventilation, installed in a horizontal hard foundation, no obvious dust and flying flour.

- **Evaporate type:** Aluminum alloy plate
- **System maximum pressure drop:** 0.025Mpa
- **Intelligent control and protection:** constant pressure expansion valve & compressor automatic start and stop
- **Display interface:** LED dew point temperature display, LED alarm code display, operation status indication
- **High Pressure Protect:** pressure sensitive intelligent protection
- **Low Pressure Protect:** pressure sensitive intelligent protection



*Be on the Safe side!*

## HL Series Technical Data

The following products are suitable for use at 220V 50Hz, 380V 50Hz voltage, other voltages can be customize:

Model	Flow Rate	Power Supply	Input Power	Air line Connection	Refrigerant Type	G.W.	Measurement
	m <sup>3</sup> /min		kw			kg	mm
HL010	1.2	1P/220V /50Hz~60Hz	0.37	G3/4"	R134a	59.40	585x475x880
HL020	2.4	1P/220V /50Hz	0.59	G 1"	R407c	48.00	585x475x880
HL030	3.6	1P/220V/50Hz	0.92	G 1"	R407c	87.40	705x585x1005
HL060	6.5	1P/220V /50Hz	1.45	G 1-1/2"	R407c	91.20	770x610x1100
HL080	8.5	1P/220V /50Hz	2.00	G 2"	R407c	106.00	870x660x1140
HL100	11	1P/220V /50Hz	2.40	G 2"	R407c	118.00	870x660x1140
HL120	13.5	1P/220V /50Hz	2.52	G 2"	R407c	128.50	870x680x1180
HL150	15	3P/380v/50Hz	2.98	DN50 Flange	R407c	162.60	930x630x1200
HL200	22.5	3P/380v/50Hz	3.78	DN65 Flange	R407c	331.00	1310x910x1655
HL250	26.5	3P/380v/50Hz	4.52	DN80 Flange	R407c	358.20	1310x910x1655
HL300	32.5	3P/380v 50Hz~60Hz	5.00	DN80 Flange	R407c	455.00	1520x1130x1825
HL400	42.5	3P/380v 50Hz~60Hz	6.84	DN100 Flange	R407c	464.00	1520x1130x1825
HL500	55.0	3P/380v/50Hz	8.95	DN100 Flange	R407c	641.40	1900x1360x1825
HL600	65.0	3P/380v/50Hz	11.58	DN100 Flange	R407c	780.00	1900x1360x1825
HL800	85.0	3P/380v/50Hz	13.62	DN125 Flange	R407c	920.00	1950x1500x1900

## Refrigeration Cycle System:

Refrigeration dryer processing capacity= air compressor exhaust volume X C1xC2xC3xC4

C1 -Ambient temperature correction factor

°C	20	25	30	35	40	45	50
Correction Factor	1.25	1.12	1.06	1.00	0.90	0.80	0.70

C2- Intake air temperature correction factor

°C	30	35	40	45	50	55	60
Correction Factor	1.10	1.05	1.00	0.72	0.63	0.52	0.45

C3- Working pressure correction factor

MPA	0.2	0.3	0.4	0.5	0.6	0.7	0.8	0.9	1	1.2	1.5	1.6
Correction Factor	0.56	0.69	0.82	0.88	0.95	1.00	1.02	1.05	1.10	1.15	1.26	1.30

C4- Pressure dew point correction factor

°C	3	5	7	10
Correction Factor	0.70	0.80	0.90	1.00





**SAFE**

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