SAFE

Safe Air Flow Engineering ®

HL Series Air Dryer

HL Series

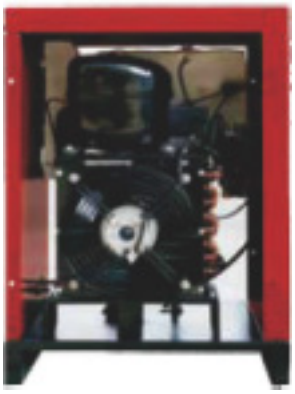
Features

- 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	N.W.	Demension
	m^3/min		kw			(Kg)	(mm)
HL010	1.2	1P/220V/50Hz~60Hz	0.48	G3/4"	R134a	59.40	520x410x725
HL020	2.4	1P/220V/50Hz~60Hz	0.59	G1"	R407c	70.20	520x410x725
HL030	3.6	1P/220V/50Hz	0.92	G1"	R410a	87.40	640x518x850
HL060	6.5	1P/220V/50Hz	1.29	G1-½"	R410a	91.20	700x540x950
HL080	8.5	1P/220V/50Hz	1.82	G2"	R410a	106.00	800x590x900
HL100	11.0	1P/220V/50Hz	2.12	G2"	R410a	118.00	800x590x900
HL120	13.5	1P/220V/50Hz	2.52	G2"	R410a	128.50	800x590x900
HL150	15.0	3P/380V/50Hz	2.98	DN50 Flange	R410a	162.60	930x630x1200
HL200	22.5	3P/380V/50Hz	3.78	DN65 Flange	R410a	331.00	1225x820x1500
HL250	26.5	3P/380V 50Hz	4.52	DN80 Flange	R410a	358.20	1225x820x1500
HL300	32.5	3P/380V 50Hz	5.34	DN80 Flange	R410a	455.00	1386x1020x1670
HL400	42.5	3P/380V 50Hz	6.84	DN100 Flange	R410a	464.00	1386x1020x1670
HL500	55.0	3P/380V 50Hz	8.95	DN100 Flange	R410a	641.40	1795x1200x1670
HL600	65.0	3P/380V 50Hz	11.58	DN100 Flange	R410a	780.00	1900x1360x1825
HL800	85.0	3P/380V 50Hz	13.62	DN125 Flange	R410a	920.00	1950x1500x1900

Refrigeration Cycle System:

Refrigeration dryer processing capacity= air compressor exhaust volume X ClxC2xC3xC4

Cl -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. 76	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

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