

Dentwiton®

CHS series of air-cooled chillers

The CHS series of air-cooled chillers in the cooling capacity range of 4.5 to 20.7 kW, with R290 refrigerant, offer excellent performance and particularly quiet operation. The standard heat pump functionality is retained and can be applied in scenarios where there is a demand for both cooling and heating.

R290

HEATING

COOLING



Dentwiton®

The CHS Series DC Chillers use the latest R290 refrigerant, GWP=3, which meets the relevant energy requirements of the Ecodesign Directive and significantly reduces pollutant emissions associated with energy consumption.

CHS series DC coolers support dual-temperature operation applications, with guaranteed heating at outdoor temperatures as low as -25 °C and guaranteed cooling at outdoor temperatures as low as -15 °C, and maintain a high level of operational energy efficiency to reduce operating costs. Enriches the application environment of the product, whether it is industrial dehumidification, data room cooling and agricultural warehouse environment control can meet the application requirements.

Multi-component integration built-in, reducing the cost of product installation, and through the built-in touch screen with multi-way remote control to reduce the operating costs of the operator.

- ★ Future-oriented R290 refrigerant
- ★ Flow temperature reaches 75 °C
- ★ Heating operating temperature as low as -25 °C
- ★ Cooling operating temperature as low as -15 °C
- ★ Heating energy efficiency SCOP ≥ 4.6
- ★ Cooling energy efficiency SEER ≥ 5.1
- ★ Built-in circulation pump
- ★ Built-in colour touch screen
- ★ Multi-way remote control
- ★ Dual electronic expansion valve
- ★ Energy-saving DC fan
- ★ Low operating noise
- ★ In line with the Eco-design directive of the ERP standard



Type		CHS06	CHS08	CHS10	CHS12	CHS15	CHS22
Refrigeration Range	kW	1.50 ~ 5.56	1.90 ~ 7.41	1.9 ~ 9.27	2.7 ~ 11.12	3.69 ~ 13.90	5.85~20.39
EER		3.06	3.08	2.85	3.02	3.01	3.02
Heating range	kW	2.30 ~ 6.46	2.90 ~ 8.20	2.90 ~ 10.10	3.80~ 12.20	4.95 ~ 15.20	6.85~22.10
COP		4.72	4.7	4.61	4.57	4.64	4.48
Nominal air flow	m³/h	2700	2900	3000	3350	5500	8000
Rated water flow	m³/h	1.09	1.1	1.2	1.7	2.12	2.55
Power supply	V/Ph/Hz	230V/1~/50Hz	230V/1~/50Hz	230V/1~/50Hz	400V/3~/50Hz	400V/3~/50Hz	400V/3~/50Hz
Power consumption	kW	2.16	2.86	3.22	5.3	6.5	9
Rated current	A	9.4	12.5	14	9.6	11.7	16
Refrigerant type/charge	Typ/kg	R290/0.80	R290/1.05	R290/1.05	R290/1.25	R290/1.56	R290/1.8
CO2 equivalent	kg	2.4	3.15	3.15	3.75	4.68	5.4
Sound Pressure Level	dB(A)	44	43	44	45	47	48
Interface size	inch	G1"	G1"	G1"	G1"	G1"	G1"
Unit size	mm	1060*420*846	1060*420*1015	1060*420*1015	1060*420*1015	1060*420*1350	1060*420*1565
Unit weight	kg	92	110	110	112	136	166

1· The rated output is based on the following conditions:

For cooling, Ambient temperature 35°C, outlet temperature 7°C, inlet temperature 12°C.

For Heating, Ambient temperature 7°C, outlet temperature 35°C.

2· Measured at a distance of 1 meter under free-field conditions.

3· GWP = 3

4· Suitable antifreeze must be used in cooling mode.