

Prozone

Air cooled water chillers and reverse cycle air/water heat pumps with axial fans and scroll compressors.



Unit description

- Compressor scroll with electric sump heater R410A.
- Evaporator stainless steel AISI 316 brazed plate type externally insulated complete with differential pressure switch and antifreeze protection electric heater.
- Condenser coils with seamless copper tubes and aluminium fins.
- Fan axial type.
- Low ambient - condensing pressure control with variable fan speed modulation for low outdoor temperature down to -10°C.
- Microprocessor control system by microchiller.
- Structure and panels made in peralluman alloy suitable for outdoor installation.

Versions

ZC air cooled water chiller
ZH reverse cycle air/water heat pump
ZCM cooling only condensing units

Applications with packaged hydraulic kit

SE : packaged hydraulic kit complete with buffer tank, water pump and expansion vessel.

Accessories mounted in factory:

- Double set point operation;
- Liquid receivers for cooling only condensing units;
- Connection valves for condensing unit;

Data referred to:

CHILLER: outdoor temperature 35°C - chilled water temperature 12/7°C.
HEAT PUMP: outdoor temperature 7°C 90 R.H. - hot water temperature 45°C.

Accessories supplied loose:

- Remote control display;
- Network control through a local PC with dedicated software (as additional accessory) under Windows by serial output RS 232;
- Network control through a remote PC with dedicated software (as additional accessory) under Windows by gateway and modem;
- Connection to BMS control by serial output RS 232, gateway and protocol MOD-BUS;
- Flow switch;
- Water strainer;
- Automatic filling system;
- Rubber anti-vibration set;
- Cooling only condensing unit connection kit including: expansion valve, solenoid valve, drier filter and sight glass;
- Heating and cooling condensing unit connection kit including: expansion valve and solenoid valve.

DIMENSIONS AND WEIGHTS

Sizes	Length				Width				Height				Shipping Weight & extra SE			
	C	H	SE	SE	C	H	SE	SE	C	H	SE	SE	C	H	CSE	HSE
	mm				mm				mm				Kg			
16Z	1110				430				680 980				78 84 28			
17Z	1110				430				680 980				80 86 28			
18Z	1110				430				680 980				82 88 28			
112Z	960				430				1330 1630				104 112 30			
114Z	960				430				1330 1630				109 116 30			

Versions	Main switch	Variable fan speed electronic control	liquid receivers	operation with leaving water temp < - 4°C	Sump heater	Antifreeze heater
C	●	●	NR	▲	●	●
H	●	●	●	▲	●	●
CM	●	●	▲	N/R	●	●

● Standard ▲ Optional N/R Not required

Sizes		16Z	17Z	18Z	112Z	114Z
C	Cooling Capacity kW	6	7	7,6	10,4	13,3
	Compressors input kW	1,7	2	2,4	3	4
H	Heating capacity kW	7,2	8,2	9,6	11,8	16,2
	Sound pressure levels (1) dB(A)	49	49	49	51	53
	Full load current (2) A	13	14	17	10,5	11,5
	Starting current (2) A	58	61	82	64	74
	Power supply V/ph/Hz	230/1/50	230/1/50	230/1/50	400/3+n/50	400/3+n/50

C Chiller H Heat pump N/A - Not available

(1) Sound pressure level condensing coil side at 5m distance from unit surface and 1m height from the ground.
(2) Electrical consumptions relate to SE models.



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