

# Excel

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



## Unit description

- Compressor scroll with electric heater R407C.
- 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.
- Casing in galvanised steel base frame and panels in powder pre-painted (RAL 9007)galvanised steel sheet for outdoor installation.

## Versions

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

## Applications with packaged hydraulic kit

SE : setting-up with packaged hydraulic kit complete with capacity tank, water pump and expansion vessel.

## Accessories mounted in factory:

- Double set point operation for water temperature < - 4°C;
- High/low pressure gauges;
- Epoxy coated condensing coils;
- Copper/Copper condensing coils;
- Condensing coil protection grille;
- Liquid receivers for cooling only condensing units;
- Connection valves for condensing unit;
- Compressor jackets sound attenuator;
- Over/under voltage +phase failure relay.

## 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;
- Water strainer for setting SE;
- Automatic filling group;
- Water gauges;
- Rubber anti-vibration set;
- Rubber anti-vibration mounts for setting SE;
- 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	C	H	SE	C	H	SE	C	H	SE
	mm	mm	mm	mm	mm	mm	mm	mm	mm	Kg	Kg	+Kg
240Z	1750	2765		1100	1150		1250	1350		492	512	166
250Z	1750	2765		1100	1150		1250	1350		512	532	173
260Z	2175	2765		1150	1150		1350	1350		691	721	152
265Z	2175	2765		1150	1150		1350	1350		709	739	160
275Z	2175	2765		1150	1150		1350	1350		729	759	160
285Z	2175	2765		1150	1150		1350	1350		959	985	143
2100Z	3420	3420		1400	1400		1350	1350		1241	1281	146

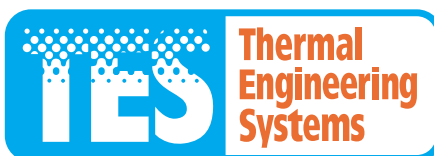
Versions	Main switch	Variable fans speed electronic control	liquid receivers	operation with leaving water temp < - 4°C	Carter heater	Antifreeze heater
C	●	●	N/R	▲	●	●
H	●	●	●	▲	●	●
CM	●	●	▲	N/A	●	●

N/A Not available ● Standard ▲ Optional N/R Not required

Sizes		240Z	250Z	260Z	265Z	275Z	285Z	2100Z
C	Cooling Capacity	kW	40,6	51,5	56	62,2	69,4	91,7
	Compressors input	kW	14,7	17	18,6	20	24,8	33,3
H	Heating capacity	kW	48	56,9	63	69	91	102
	Sound pressure levels (1) dB(A)		57	57	58	58	59	61

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.



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