



Chilled water temperature

Duty (32°C ambient)

COOLING DUTY

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TECHNICAL DATA SHEET

SIGMA 18

°C	10	15	20	
kW	14.1	16.6	18.3	
°C	10 to 42			
°C		10 to 25		

Ambient temperature range for the standard design Chilled water temperature available in the standard design ٠ Note: water chilled below +5°C will require antifreeze added.

REFRIGERATION SYSTEM			
Compressor	Туре		Hermetic scroll
	Nominal power (each)	kW	5.7
	Number off		One
	Full load current (each)	amps	10.5
	Refrigerant type		R410A
 Condenser unit 	Air cooled condenser	No. off	One
	Material		All aluminium
	Fan arrangement	No. off	One
	air flow	m3/hr	6000
	motor power	kW	0.71
	Full load current	amps	1.4
- or			
	Water cooled condenser	No. off	One
	Water flow	litres/hour	1700
	Pressure drop	bar	0.42
 Evaporator 		Material	Stainless steel

- Evaporator
- Refrigeration controls: control thermostat, compressor over-temperature protection, refrigerant drier, expansion • valve, high pressure switch, fan pressure switch.

WATER SYSTEM

 Water system instruments 	Digital electronic temperature display and control +/-1°C			
	Tank water level indicator			
	Water pressure gauge			
	Permanent bypass			
	Water level switch (pump security)	_		
 Bulk holding tank 	Capacity	litres	300	
	Material*		Plastic	
	Water filling		Mains	
		_		
 Water pump 	Туре		Horizontal multistage	
	Flow	m3/hr	2.9	
	Pressure	bar	3.0	
	Motor power	kW	0.65	
	Full load current	amp	1.8	
 Connections 	Warm water INLET	BSP female	1 ¼	
	Chilled water OUTLET	BSP female	1 ¼	
	Mains water	BSP female	³ / ₈	
	Drain	BSP male	1/2	
*If heaters are fitted into tank it	is manufactured of stainless steel	-		







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ELECTRICAL SYSTEM

400 / 3 / 50 Volt phase cycle · Mains supply for the standard design Control Voltage 24 • Total nominal power kW 7.3 14 Maximum starting load (per phase) amp 16 Safety fuse amp • Electrical controls: direct on line. Incorporates safety overload. • Protection rating IP54 • Collective fault/remote signal • Remote control via volt free signal · Fan speed control **NOISE LEVEL** @ 1m free field dB'A' 71 **HEAT RECOVERY** kW 19.5 From air or water cooled condenser WEIGHT Dry kg 320 620 Working kg **DIMENSIONS (mm)** Width 1000 Stainless steel enclosure Depth 1000 Height 2055 FINISH Paint RAL9005

OPTIONS

Reinjection for high return water temperatures
Low ambient kit
Frost protection
Close temperature control <u>+0.5°C or +0.1°C</u>
Control temperature parallel with ambient
High ambient conditions
Stainless steel evaporator coil
Systems suitable for deionised water
Additional water level switch
Flow switch
Pump isolation valves
High pressure pumps
Pressure relief valve
Autofill by solenoid valve

Twin inlets/outlets Insulation Freeze stat Pressure gauge Stainless steel tank Remote control Special electrical circuits 24V DC control circuit Power supply various Cable marking Harting connectors Lifting handles GRP cover for external use Commissioning



