

# TECHNICAL DATA SHEET

# SIGMA 16

## COOLING DUTY

- Chilled water temperature
- Duty (32°C ambient)
- Ambient temperature range for the standard design
- Chilled water temperature available in the standard design

Note: water chilled below +5°C will require antifreeze added.

°C	10	15	20
kW	11.8	13.9	15.4
°C	10 to 42		
°C	10 to 25		

## REFRIGERATION SYSTEM

- Compressor
 

Type	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	4500
motor power	kW	0.71
Full load current	amps	1.4

- or

Water cooled condenser	No. off	One
Water flow	litres/hour	1400
Pressure drop	bar	0.4
- 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	120
Material*		Plastic
Water filling		Mains
- Water pump
 

Type	Horizontal multistage	
Flow	m3/hr	2.6
Pressure	bar	3.3
Motor power	kW	0.65
Full load current	amp	1.8
- Connections
 

Warm water INLET	BSP female	¾
Chilled water OUTLET	BSP female	¾
Mains water	BSP female	3/8

\*If heaters are fitted into tank it is manufactured of stainless steel

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## ELECTRICAL SYSTEM

- Mains supply for the standard design
- Control
- Total nominal power
- Maximum starting load (per phase)
- Safety fuse
- Electrical controls: direct on line. Incorporates safety overload.
- Protection rating IP54
- Collective fault/remote signal
- Remote control via volt free signal
- Fan speed control

Volt phase cycle	400 / 3 / 50
Voltage	24
kW	7.3
amp	14
amp	16

## NOISE LEVEL

@ 1m free field

dB'A' **71**

## HEAT RECOVERY

From air or water cooled condenser

kW **17**

## WEIGHT

Dry kg	<b>190</b>
Working kg	<b>310</b>

## DIMENSIONS (mm)

- Stainless steel enclosure

Width	<b>715</b>
Depth	<b>715</b>
Height	<b>1545</b>

## FINISH

Paint RAL9005

## OPTIONS

- |  |                             |
|--|-----------------------------|
| Reinjection for high return water temperatures                                   | Twin inlets/outlets         |
| Low ambient kit  | Insulation                  |
| Frost protection   | Freeze stat                 |
| Close temperature control $\pm 0.5^{\circ}\text{C}$ or $\pm 0.1^{\circ}\text{C}$ | Pressure gauge              |
| Control temperature parallel with ambient  | Stainless steel tank        |
| High ambient conditions  | Remote control              |
| Stainless steel evaporator coil  | Special electrical circuits |
| Systems suitable for deionised water   | 24V DC control circuit      |
| Additional water level switch  | Power supply various        |
| Flow switch  | Cable marking               |
| Pump isolation valves  | Harting connectors          |
| High pressure pumps  | Lifting handles             |
| Pressure relief valve  | GRP cover for external use  |
| Autofill by solenoid valve   | Commissioning               |