

&R PRODUCTS LIMITED

Unit 12, Blackdown Business Park, Wellington, Somerset, TA21 8ST, England Tel: 01823 663281 Fax: 01823 664378

E-mail: sales @fandrproducts.co.uk Website: www.fandrproducts.co.uk

TECHNICAL DATA SHEET

SIGMA 22

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	16.9	20	21.7
°C	10 to 42		
°C	10 to 25		

kW

amps

Hermetic scroll

7.4

One

15.2

R410A

One

All aluminium

One

2000

0.2 Stainless steel

REFRIGERATION SYSTEM

Condenser unit

 Compressor Type

Nominal power (each)

Number off

Full load current (each)

Refrigerant type

Air cooled condenser No. off Material

Fan arrangement No. off One air flow m3/hr 60000 kW motor power 0.71 1.4 amps

Full load current

Water cooled condenser No. off

Water flow litres/hour Pressure drop bar Material

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

WATER SYSTEM

Water pump

Connections

Evaporator

or

Digital electronic temperature display and control +/-1°C Water system instruments

> Tank water level indicator Water pressure gauge Permanent bypass

Water level switch (pump security)

· Bulk holding tank Capacity

> Material* Water filling

Type

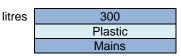
Flow Pressure Motor power

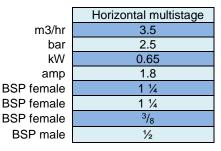
Full load current Warm water INLET

Chilled water OUTLET Mains water

Drain

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











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TECHNICAL DATA SHEET

SIGMA 22

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	9	
amp	18.7	
amp	20	

NOISE LEVEL	@ 1m free field	dB'A'	71
HEAT RECOVERY	From air or water cooled condenser	kW	23.5
<u>WEIGHT</u>		Dry kg Working kg	320 620
DIMENSIONS (mm) ■ Stainless steel enclosure		Width Depth Height	1000 1000 2055

FINISH Paint RAL9005

OPTIONS

Reinjection for high return water temperatures
Low ambient kit
Frost protection
Close temperature control ±0.5°C or ±0.1°C
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

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



Autofill by solenoid valve

