

&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

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	6.6	7.8	8.7		
°C	10 to 42				
°C	10 to 25				

REFRIGERATION SYSTEM

Condenser unit

 Compressor Type

Nominal power (each)

Number off

Full load current (each)

Refrigerant type

Air cooled condenser

Material

Fan arrangement air flow motor power

Full load current

or

Water cooled condenser Water flow

Pressure drop

Hermetic scroll kW 3.6 One

5.8 amps R410A

No. off One All aluminium No. off One m3/hr 4500

kW 0.71 1.4 amps

No. off One litres/hour 830 bar 0.6 Stainless steel 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

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

Pressure Motor power

Full load current

Flow Warm water INLET

BSP female BSP female Chilled water OUTLET Mains water BSP female

120 litres Plastic Mains

Horizontal multistage m3/hr 1.5 3.0 bar 0.46 1.2 amp 3/4 3/4 $^{3}/_{8}$

kW

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







F&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 9

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	5	
amp	8.7	
amp	16	

NOISE LEVEL	@ 1m free field	dB'A'	71
HEAT RECOVERY	From air or water cooled condenser	kW	9.5
<u>WEIGHT</u>		Dry kg Working kg	180 300
DIMENSIONS (mm) • Stainless steel enclosure		Width Depth Height	715 715 1545

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

