

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 80

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	60.7	71.3	79.8		
°C	10 to 42				
°C		10 to 25			

REFRIGERATION SYSTEM

Compressor
 Type

Nominal power (each)

Number off

Full load current (each)

Refrigerant type

Condenser unit
 Air cooled condenser

Material

Fan arrangement air flow motor power Full load current

or

Water cooled condenser Water flow

Pressure drop

Hermetic scroll
kW 26.7

One 43.6 R410A

 No. off
 Two

 All aluminium

 No. off
 One

 m3/hr
 15500

 kW
 1.97

 amps
 3.4

No. off One
litres/hour 7200
bar 0.51
Material Stainless steel

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

WATER SYSTEM

Water pump

Evaporator

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

Material* Water filling

Mains water

Type Flow

Pressure
Motor power
Full load current
Warm water INLET

Connections
 Warm water INLET
 Chilled water OUTLET

Drain

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

litres	300
	Plastic
	Mains

Horizontal multistage m3/hr 12.7 2.9 bar kW 2.2 4.7 amp BSP female 2 BSP female 2 BSP female $\frac{3}{8}$ 1/2 BSP male







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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	31.1	
amp	52	
amp	63	

NOISE LEVEL	@ 1m free field	dB'A'	72
HEAT RECOVERY	From air or water cooled condenser	kW	84
<u>WEIGHT</u>		Dry kg Working kg	440 740
DIMENSIONS (mm) ■ Stainless steel enclo	osure	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

