

### 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 56

### **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	42.9	50.7	56
°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 16.6

kW 16.6
One
amps 28.2
R410A

No. off

Material

No. off m3/hr kW amps

Two
All aluminium
One
15500
1.97
3.4

No. off litres/hour bar

One 5000 0.35 Stainless steel

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

#### **WATER SYSTEM**

Water pump

Connections

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

Type Flow

> Pressure Motor power Full load current

Warm water INLET

Chilled water OUTLET Mains water

Drain

m3/hr bar kW amp

BSP female

BSP female

BSP female

BSP male

litres

Horizontal multistage

8
4
2.2
4.7
1 ½
1 ½
3/8

1/2

300

Plastic

Mains

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







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# **TECHNICAL DATA SHEET**

**SIGMA 56** 

### **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	21	
amp	36.6	
amp	40	

NOISE LEVEL	@ 1m free field	dB'A'	71
HEAT RECOVERY	From air or water cooled condenser	kW	58
<u>WEIGHT</u>		Dry kg Working kg	380 680
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

