

### &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 34

### **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	25.7	29.9	33.5	
°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 11.5 One 18.7 amps

No. off

No. off m3/hr kW amps

One All aluminium One 6800 0.71 1.4

R410A

No. off litres/hour bar Material

One 3000 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

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

Warm water INLET

Mains water

Full load current Chilled water OUTLET

Drain

m3/hr bar kW amp BSP female

BSP female

BSP female

BSP male

litres

Horizontal multistage 5.1 2.5 0.85 2.22 1 1/4 1 1/4  $^{3}/_{8}$ 1/2

300

Plastic

Mains

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







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# **TECHNICAL DATA SHEET**

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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	13.3	
amp	22.6	
amp	35	

NOISE LEVEL	@ 1m free field	dB'A'	71
HEAT RECOVERY	From air or water cooled condenser	kW	35
WEIGHT		Dry kg Working kg	340 640
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

