

|                 |  |
|-----------------|--|
| Sales Reference |  |
| Date            |  |

### ADMINISTRATIVE DATA

**ATC Model Name** H12  
**ATC K-Series Equivalent** K9/K12

### PHYSICAL ATTRIBUTES

**Physical Dimensions (mm)** H 1180mm, W 904mm, D 610mm  
**Construction** Sheet steel gauge 1.5mm, Powder coated  
**Mounting Type** Castors, 2 swivel, 2 braked (standard)  
**Acceptable Environment** Indoors (Standard)  
**Dry Weight (kg)** 156kg  
**Wet Weight (kg)** 167kg  
**Noise level (dB(A)) at 1 meter** 92dB  
**Product IP Rating** IP20  
**Airfreight** Send without refrigerant  
**Sea Freight** Send charged

### TEMPERATURE CONTROL ATTRIBUTES

**Cooling/Refrigeration Technology** Vapour compression  
**Compressor Type** Fixed speed reciprocating  
**Evaporator Technology** Brazed Plate Heat Exchanger (BPHE)  
**Duty at +20°C ambient, Setpoint +20°C (kW)** 12kW  
**Duty at +30°C ambient, Setpoint +20°C (kW)** 9.5kW  
**Refrigerant & Charge** R454C, 2.23kg  
**Ambient Temperature Range (standard)** +4°C to +20°C  
**Ambient Temperature Range (extended)** +4°C to +35°C  
**Control Method** PID, Solenoid valve  
**Temperature Stability (with constant load)** ±0.1°C  
**Temperature Resolution** ±0.1°C  
**Cooling Fan Airflow** 4,994CFM (8,400m<sup>3</sup>/h)

### WATER CIRCUIT ATTRIBUTES

**Designed Nominal Process Fluid Flowrate** 10-80L/m (0.6-4.8m<sup>3</sup>/h)  
**Maximum Design Pressure** 8 Bar (116psi)  
**Process Temperature Range (standard)** +4°C to +35°C  
**Process Temperature Range (extended low temp.)** -20°C  
**Process Temperature Range (extended high temp.)** +60°C  
**Maximum Return Line Temperature** +60°C  
**Pump Options** P10, P17, P25, P40, P80  
**Visible Level Indicator** Yes  
**Integrated Drain** No  
**System Volume** 11l  
**Tank Type** Stainless steel, Flow-through  
**Flow and Pressure Control** Internal, PRV, 20-150psi  
**Connection Size** ½" BSPPF (P10/P17)  
**(Fittings to convert size as needed available)** 1" BSPPF (P25, P40,P80)  
**Construction Materials** Steel enclosure  
**Fluid Compatibility** Hexid Fluid (Propylene Glycol)  
Coolflow (Ethylene Glycol)

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### ELECTRICAL ATTRIBUTES

|                                  |                  |
|----------------------------------|------------------|
| <b>(400Vac, 3~, 50Hz) 3-spec</b> | Available (8.6A) |
| <b>(460Vac, 3~, 60Hz) 4-spec</b> | Available        |

### SAFETY INTERLOCKS, PROTECTIONS, STANDARDS, AND INDICATORS

|                                               |                                                          |
|-----------------------------------------------|----------------------------------------------------------|
| <b>1<sup>st</sup> Party Approvals</b>         | CE                                                       |
| <b>3<sup>rd</sup> Party Approvals</b>         | -                                                        |
| <b>Empty Fluid Reservoir Alarm</b>            | Process stop interlock                                   |
| <b>Low Fluid Flow Alarm</b>                   | Visual, lamp                                             |
| <b>Temperature Out of Range Alarm</b>         | Visual, lamp                                             |
| <b>RS485 Comms</b>                            | Standard                                                 |
| <b>Volt-Free Contacts (Temp, Level, Flow)</b> | Standard                                                 |
| <b>Compressor HP Switch</b>                   | High                                                     |
| <b>Interlock Restored, Restart Mode</b>       | Manual                                                   |
| <b>Overcurrent Fault-Cleared Restart Mode</b> | Manual                                                   |
| <b>Overcurrent Protection</b>                 | Variable, via thermal magnetic overload                  |
| <b>Motor Thermal Overload</b>                 | Internal, automatic restart                              |
| <b>Warranty Options</b>                       | 2-year parts, 1-year labour<br>Enhanced warranty options |

### CONFIGURATIONS

|                                      |                     |
|--------------------------------------|---------------------|
| <b>Water-Cooled</b>                  | Available, H06xxxxW |
| <b>High-Ambient (High Speed Fan)</b> | Available, H06xxxxF |

### OPTIONS (OP Packs)

|                                                |                                  |
|------------------------------------------------|----------------------------------|
| <b>Low Temperature Pack; OP00001</b>           | Available (to -20°C)             |
| <b>High Temperature Pack; OP00002</b>          | Available (to +60°C, 2kW @ 400V) |
| <b>Non-Return Solenoid Valve Pack; OP00003</b> | Available                        |
| <b>CPC Quick Release Connectors; OP00004</b>   | Available (to P25/ ¾")           |
| <b>Remote Stop-Start; OP00005</b>              | Available                        |

### ACCESSORIES (AC Packs)

|                                                             |           |
|-------------------------------------------------------------|-----------|
| <b>Fluid Adaptors; AC00002</b>                              | Available |
| <b>Installation Kit; AC00004</b>                            | Available |
| <b>Particulate Filter (Wall-mounted, 5 micron); AC00005</b> | Available |
| <b>Analogue Flowmeter; AC00006</b>                          | Available |
| <b>Seismic Mounts; AC00007</b>                              | Available |
| <b>External Manifolds; AC00008</b>                          | Available |

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### CAPACITY CURVES

