

ADMINISTRATIVE DATA

ATC Model Name	MGC
ATC K-Series Equivalent	Mini/KTD

PHYSICAL ATTRIBUTES

Physical Dimensions (mm)	H 428mm, W 220mm, D 516mm
Construction	Sheet steel gauge 1.5mm, Powder coated
Mounting Type	Benchtop
Acceptable Environment	Indoors (Standard)
Dry Weight (kg)	30kg
Wet Weight (kg)	31kg
Noise level (dB(A)) at 1 meter	64dB(A)
Product IP Rating	IP20
Airfreight	Send charged
Sea Freight	Send charged

TEMPERATURE CONTROL ATTRIBUTES

Cooling/Refrigeration Technology	Vapour compression
Compressor Type	Reciprocating
Evaporator Technology	Brazed Plate Heat Exchanger (BPHE)
Duty at +20°C ambient, Setpoint +20°C (kW)	0.5kW
Duty at +20°C ambient, Setpoint +20°C (kW)	-
Refrigerant & Charge	R290, 95g
Ambient Temperature Range (standard)	+4°C to +25°C
Ambient Temperature Range (extended)	Not available
Control Method	PID
Temperature Stability (with constant load)	±0.1°C
Temperature Resolution	±0.1°C
Cooling Fan Airflow	73cfm

WATER CIRCUIT ATTRIBUTES

Designed Nominal Process Fluid Flowrate	3L/m (0.18m ³ /h)
Maximum Design Pressure	2 Bar (29psi)
Process Temperature Range (standard)	+4°C to +35°C
Process Temperature Range (extended low temp.)	-7°C
Process Temperature Range (extended high temp.)	+60°C
Maximum Return Line Temperature	+60°C
Pump Options	3lpm 24V pump only
Visible Level Indicator	Yes
Integrated Drain	No
System Volume	0.85l
Tank Type	Flow-through
Flow and Pressure Control	Not available
Connection Size	12mm Push-Fit
<i>(Fittings to convert size as needed available)</i>	
Construction Materials	Steel enclosure, nylon fittings
Fluid Compatibility	Hexid Fluid (Propylene Glycol) Coolflow (Ethylene Glycol)

ELECTRICAL ATTRIBUTES

(115Vac, 1~, 60Hz) 1-spec	Available, 4A (Heater, 4.5A)
220-240Vac, 1~/2~, 50/60Hz 5-spec	Available, 3A (Heater, 3.5A)

SAFETY INTERLOCKS, PROTECTIONS, STANDARDS, AND INDICATORS

1st Party Approvals	CE
Empty Fluid Reservoir Alarm	Process stop interlock
Low Fluid Flow Alarm	Visual, lamp
Temperature Out of Range Alarm	Visual, lamp
RS485 Comms	Standard
Volt-Free Contacts (Temp, Level, Flow)	Standard
Compressor HP Switch	Standard
Interlock Restored, Restart Mode	Automatic
Overcurrent Fault-Cleared Restart Mode	Manual
Overcurrent Protection	Fused
Motor Thermal Overload	Not available
Warranty Options	2-year parts, 1-year labour Enhanced warranty options

OPTIONS (OP Packs)

Low Temperature Pack; OP00001	Available (to -7°C)
High Temperature Pack; OP00002	Available (to +60°C, 250W)
Non-Return Solenoid Valve Pack; OP00003	Not available
CPC Quick Release Connectors; OP00004	Available
Remote Stop-Start; OP00005	Available

ACCESSORIES (AC Packs)

External Transformer Pack; AC00001	Available
Fluid Adaptors; AC00002	Available
Alternative Cordset; AC00003	Available
Installation Kit; AC00004	Available
Particulate Filter (Wall-mounted, 5 micron); AC00005	Available
Analogue Flowmeter; AC00006	Available
Seismic Mounts; AC00007	Not available
External Manifolds; AC00008	Available

CAPACITY CURVES

MGT/MGC - R290 (95g) 'Mini' 500W (Hexid A4)

