MINI

The Mini chiller is the most sophisticated and energy efficient chiller ATC have ever produced.

Designed to augment the KT range, the Mini combines excellent cooling performance, a smaller footprint and new touchscreen controller. As all of the internals run on 24 volts, the unit is incredibly energy efficient and suitable for use all over the world. The low noise variable speed fans make the Mini whisper quiet and the perfect addition to your laboratory or workplace. The EcoMini, based on the success of the KTR, provides 500W of cooling to a factory set temperature, in stable conditions.

500W cooling capacity,
- With a set point of 17˚C in a 20˚C ambient

-25°C to +140°C optional temperature range
- +4˚C to 35˚C as standard

Touchscreen interface or factory set temperature

Universal 90-260 VAC input voltage and 50/60Hz input frequency
- Suitable for use all over the world

Overhauled refrigeration system using variable speed compressor
- Continual adjustment of refrigerant mass flow rate to control duty

Variable speed compressor and fan
- More energy efficient
- Whisper quiet operation

41% smaller than KT range
- Similar footprint to a desktop PC

Energy efficient
- Consumes 20% of power of previous generation (KT)

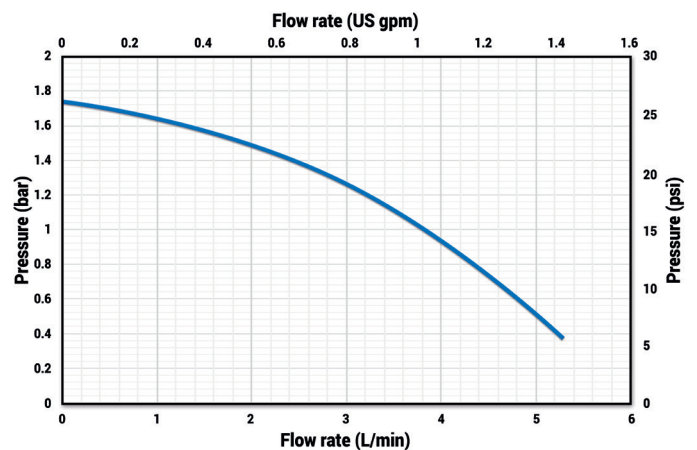ETL marked / UL-compliant by default

USB port for transferring system data
- Remote diagnosis of faults
- Loading software updates
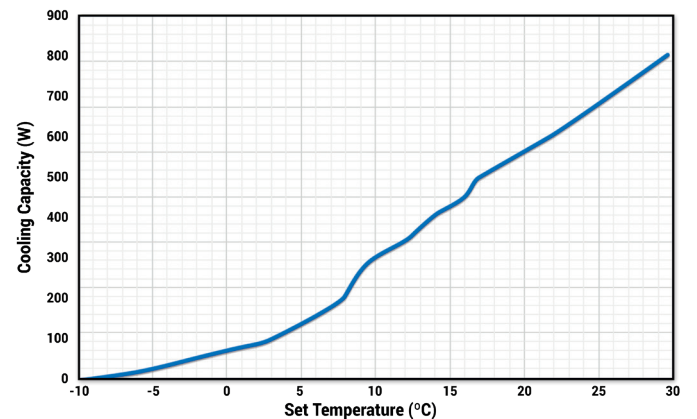- Uploading setpoint against time programs

APPLICATIONS

» Bioreactors
» Electron Microscopes
» Lasers
» Automation Systems
» Vacuum Pumps
» Rotary Evaporators
» Electrophoresis

PUMP CAPACITY

COOLING CAPACITY

Cooling capacity (setpoint 20°C, ambient 20°C)	Eco Mini Chiller 500W	Mini Chiller 500W
Physical attributes		
Physical dimensions (LxWxH) (mm)	435x180x380	435x180x380
Weight (kg)	Dry 20, wet 21	Dry 20, wet 21
Noise level (dB(A))	64 (optional manual adjustment)	35-64 (auto fan speed control)
Toolless access	No	No
Temperature control attributes		
Technology	Vapour compression	Vapour compression
Evaporator technology	Brazed plate heat exchanger	Brazed plate heat exchanger
Duty at +20°C ambient, Setpoint +20°C (kW)	500	500
Duty at +20°C ambient, Setpoint +15°C (kW)	350	350
Refrigerant & charge	R134a, 360g	R134a, 360g
Temperature range (standard)	+4°C to +35°C (setpoint dependent on load)	+4°C to +35°C
Temperature range (extended)	-10°C to +35°C	-10°C to +65°C
Control method	None, continuous cooling (Low temp cutout & user settable capacity control dial)	PID
Temperature stability (with constant load)	±0.1°C	±0.1°C
Temperature resolution	N/A	N/A
Maximum THR (Total Heat Rejection)	850W	850W
Ambient air temperature range	+35°C	+35°C
Water circuit attributes		
System volume (L)	0.64	0.64
Pump type	3.5l/min Centrifugal pump	3.5l/min Centrifugal pump
Pump capability	5 l/min open flow, 1.9 Bar dead heard	5 l/min open flow, 1.9 Bar dead heard
Pressure control (settable pressure relief valve)	N/A	N/A
Standard fittings	Pushfit 12mm	Pushfit 12mm
Standard chemical compatibility	Hexid Fluid, Tap Water, Propylene Glycol, DI-water	Hexid Fluid, Tap Water, Propylene Glycol, DI-water
Electrical attributes		
Global Power Supply	Yes	Yes
Dedicated configurations	100-240Vac 50-60Hz (80-264Vac 47-63Hz)L / N / E 24Vdc (no internal PSU) +VE / 0V / E	100-240Vac 50-60Hz (80-264Vac 47-63Hz) 24Vdc (no internal PSU) +VE / 0V / E
Switchable configurations	N/A	N/A
Over current fault-cleared restart mode	Automatic	Automatic
Safety interlocks, protections, standards and indicators		
1st party approvals	CE	CE
3rd party approvals	TBC	UL61010-1 CAN/CSA-C22.2 FCC CFR47 Part 15 Subpart B IEC61000-6-4:2007 +A1:2011 IEC61000-6-2:2005 IEC61000-3-2:2014 IEC61000-3-3:2013
Empty fluid reservoir alarm	Not fitted	Visual, Touchscreen controller GUI
Half-full fluid reservoir indicator	Not fitted	Visual, Touchscreen controller GUI
Full fluid reservoir indicator	Not fitted	Visual, Touchscreen controller GUI
Low fluid flow alarm	Not fitted	Optional flowmeter
Temperature out of range alarm	Not fitted	Visual, Touchscreen controller GUI
Compressor HP switch	Standard, via compressor control PCB	Standard, via compressor control PCB
Motor thermal overload	Not fitted	Fused
Emergency off	Standard, via fuse	Standard, via fuse
Warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced warranty options
Interlock restored, restart mode	Automatic	Automatic
Options available		
Low temperature pack; SA00002	-	Available, to -10°C
High temperature pack; SA00003	-	Available, to +65°C
Non-return solenoid valve pack; SA00008	Available	Available
High temperature water circuit w/o heater; SA00009	Available	Available
Low flow alarm (KT); SA00010	Available	Available
Onboard RS485 data protocol; SA00011	-	Available
Standard VFC set; SA00012	Available	Available
In-line deionising cartridge and fittings; SA00013	Available	Available
Stainless non-return solenoid valve; SA00014	Available	Available
Castors to replace rubber feet; SA00015	Available	Available
CPC quick release connectors; SA00016	Available; CPC quick connect 3/8" or 1/2"	Available; CPC quick connect 3/8" or 1/2"
Installation kit; SA00017	Available	Available
Particulate filter; SA00021	Available	Available
Flow meter pack; SA00022	Available, pulses per litre output on D connector	Available
Fan speed control (on/off); SA00023	-	Standard
Fan speed control (proportional); SA00024	Available, manual adjust for noise only	-
Flow meter pack output to RS485; SA00025	-	Available
Seismic mounts; SA00026	Available	Available
In-line UV decontamination; SA00027	Available	Available

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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.