



PRECISION RECIRCULATING CHILLERS



WHO WE ARE

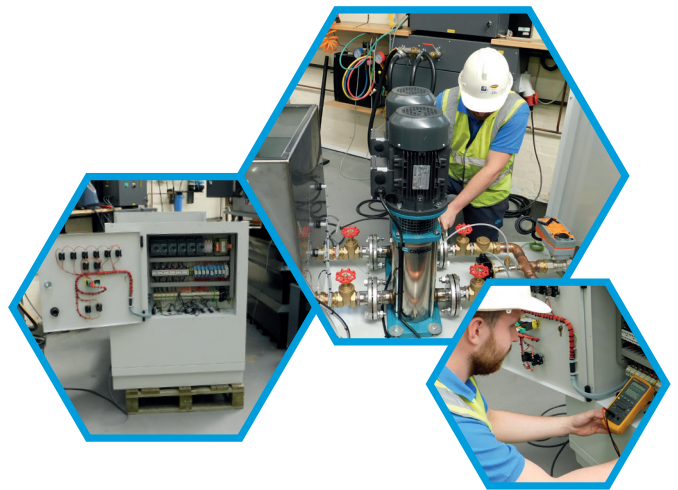
Applied Thermal Control and Thermal Exchange, part of the Scientific Digital Imaging Group of Companies, design, build and service process cooling and temperature control equipment for industrial, medical and scientific applications.

As a company we recognise the importance of superior after sales service and are working towards providing this on a worldwide basis through a network of carefully chosen partners and distributors.

We are proud of our ISO9001:2015 and ISO14001:2015 certification, knowing that this reinforces our dedication to quality and the environment.

We are excited by the rising number of applications and are always keen to work on new projects and applications, as well as those where we have over 30 years of experience.

ATC chillers are well established in the scientific instrument support markets, semiconductor process, ophthalmic lens manufacturing equipment, machine tool, and more recently the chillers of choice for commercial digital printing and laser lithography markets worldwide.



0.5kW

1kW

1.75kW

KT Chillers (480 -1000W cooling capacity) are perfect for use in the laboratory. Their small footprint and almost silent function means that they are ideal when space is an issue. KT's come with a variety of control options, meaning that you only pay for functions you need.

The K1 and K3 Chillers (1.75kW and 3.2kW Cooling capacity) represent excellent cooling power in a compact and robust package.

ATC SUPPLIES CHILLERS FOR THE MOST DEMANDING OF APPLICATIONS

ATC is a global supplier with extensive sales and customer support throughout Europe, North America, Asia and India.

ATC units are world renowned for their:

- » Quick and easy installation
- » Compact and robust design: Solid, reliable and energy efficient, whilst maintaining a small footprint
- » Wide variety of stainless steel pumps as standard, as well as nonstandard options
- » Huge range of options including specialized connectors, RS485 communications, de-ionizers, filters and many others
- » Multi-voltage and frequency models with UL and CE marking available for worldwide deployment and compatibility

We work in cooperation with equipment manufacturers to supply our users with re-circulation chillers, water-water heat exchangers and air blast coolers designed to optimise performance and reliability.

ATC has a wealth of experience in a wide range of industries and applications. By offering expert advice, coupled with a friendly service, ATC work closely with our customers to ensure that all of their cooling requirements are met.

When contacting ATC you can be assured that you will find the best cooling solution for your equipment.



3.2kW

4.5kW

6kW

9kW

14kW

Designed for the laboratory, but comfortable in almost any environment, the K1 and K3 are the workhorses of the ATC chiller family.

The K4, K6, K9 and K12 represent a powerful and truly versatile cooling platform. With cooling capacities of 4.5, 6.0, 9.0 and 14kW respectively, these units can be modified to meet our customer and OEM specific requirements.

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

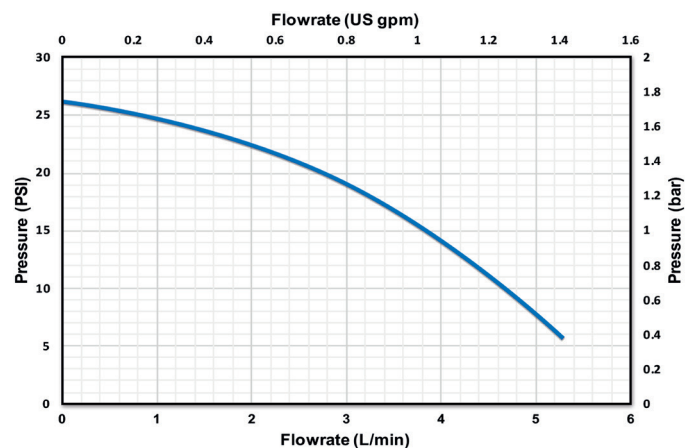
USB port for transferring system data

- Remote diagnosis of faults
- Loading software updates
- Uploading setpoint against time programs

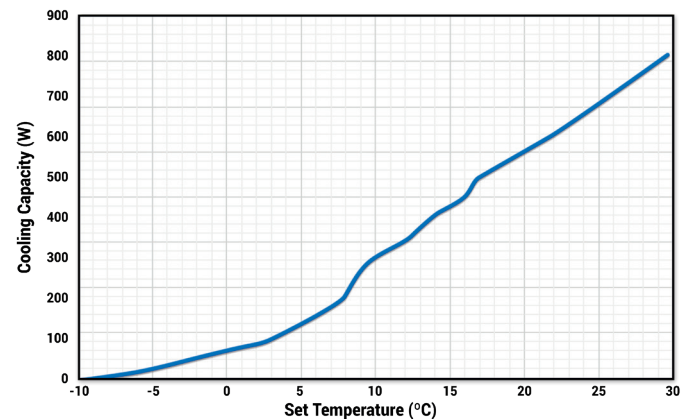
APPLICATIONS

- » 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 head	5 l/min open flow, 1.9 Bar dead head
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

COMPACT RECIRCULATING CHILLERS 0-1000W

Compact robust and versatile, the KT range of chillers are a mainstay of many laboratories.

Originally developed to cool turbopumps, the range is compact, with a small footprint and robust in design. KT chillers are designed to run continuously and reliably. The chillers are vented on all faces and located on casters to allow for flexible use, including being effortlessly situated either on top of or underneath benches.

480W-1000W cooling capacity

- With a set point of 17°C in a 20°C ambient

-15°C to +140°C optional temperature range

- +4°C to 35°C as standard

Hot gas bypass as standard

+/- 0.1°C temperature stability as standard

- +/-0.01°C available as an option

Optional touchscreen controller

Dual readout 3 term PID controller as standard

Compact unit which is whisper quiet in operation

- Variable fan speed as an option

DI water compatible liquid circuit as standard

- Easy to maintain and replace

Pump options from 1 to 17 litres per minute

- Low and high pressure variants available

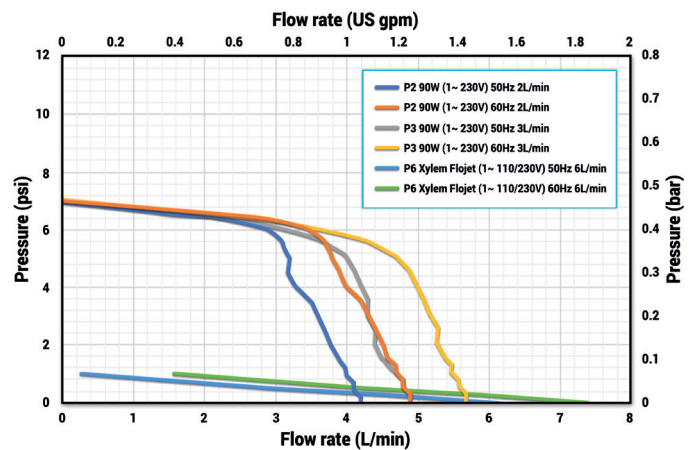
Available in CSA and UL approved variants

- Through ETL listing

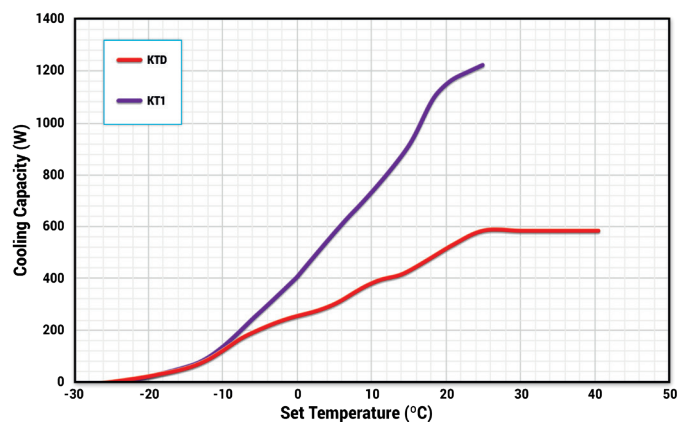
Multi-voltage and dual frequency units available, ideal for export

Easy to maintain and operate

PUMP CAPACITY



COOLING CAPACITY



APPLICATIONS

- » High vacuum technology
- » Turbo Vacuum Pump
- » Mass spectrometry
- » Chemical vapour deposition
- » X-ray diffractometers
- » Optical lasers
- » Bioreactors
- » Surface science
- » Bioreactors
- » Electron microscopes



Cooling capacity (setpoint 20°C, ambient 20°C)	KTR/480W	KTC/480W	KTD/480W	KT1/1000W
Physical attributes				
Physical dimensions (LxWxH) (mm)	330x315x515	330x315x515	330x315x515	370x450x540
Weight (kg)	30	30	30	55
Noise level (dB(A))	55	55	55	58
Toolless access	No	No	No	No
Temperature control attributes				
Technology	Vapour Compression	Vapour Compression	Vapour Compression	Vapour Compression
Temperature range (standard)	Ambient dependant	Ambient dependant	+4°C to +35°C	+4°C to +35°C
Control method	Ambient tracking	Ambient tracking	Ambient tracking or PID	PID
Temperature stability (with constant load)	±0.2°C	±0.2°C	±0.1°C	±0.1°C
Temperature resolution	0.1°C	0.1°C	0.1°C	0.1°C
Water circuit attributes				
System volume (L)	1.5	1.5	1.5	2
Pump type	1) 2L/min Rotary vane (PD) 2) 3L/min Rotary vane (PD) 3) 6L/min Centrifugal	1) 2L/min Rotary vane (PD) 2) 3L/min Rotary vane (PD) 3) 6L/min Centrifugal	1) 2L/min Rotary vane (PD) 2) 3L/min Rotary vane (PD) 3) 6L/min Centrifugal	1) 5L/min Rotary vane (PD) 2) 10L/min Rotary vane (PD) 3) 17L/min Rotary vane (PD)
Pump capability	1) 6bar@2L/min 2) 6bar@3L/min 3) 1bar@1L/min, 0.33bar@4L/min	1) 6bar@2L/min 2) 6bar@3L/min 3) 1bar@1L/min, 0.33bar@4L/min	1) 6bar@2L/min 2) 6bar@3L/min 3) 1bar@1L/min, 0.33bar@4L/min	1) 6bar@5L/min 2) 6bar@10L/min 3) 6bar@17L/min
Pressure control (settable pressure relief valve)	Internal *not on CF pump	Internal *not on CF pump	Internal *not on CF pump	Internal, PRV, 20-150psi 1/2" BSPPF + 3/4" BSPTM
Standard fittings	1/4" BSPPF w/ 1/4" BSPTM to 10mm barb	1/4" BSPPF w/ 1/4" BSPTM to 10mm barb	1/4" BSPPF w/ 1/4" BSPTM to 10mm barb	3/8" + 1/2" hose barbs Hexid Fluid, Water, Propylene Glycol
Standard chemical compatibility	Hexid Fluid, Water, Propylene Glycol	Hexid Fluid, Water, Propylene Glycol	Hexid Fluid, Water, Propylene Glycol	Glycol
Electrical attributes				
(230Vac, 1~, 50Hz) 0-spec	Yes, 2.5A	Yes, 2.5A	Yes, 2.5A	Yes, 7A
(115Vac, 1~, 60Hz) 1-spec	Yes, 4.5A	Yes, 4.5A	Yes, 4.5A	Yes, 10A
(Switchable 208Vac, 1~/2~, 60Hz 220Vac, 1~/2~, 60Hz 230Vac, 1~, 50Hz) 6-spec	Yes	Yes	Yes	Yes
(Switchable 115Vac, 1~, 60Hz 220Vac, 1~/2~, 60Hz 230Vac, 1~, 50Hz) 7-spec	Yes	Yes	Yes	Yes
(208-230Vac, 1~/2~, 50/60Hz) 9-spec	-	-	-	Yes, 7A
Overcurrent fault-cleared restart mode	Manual	Manual	Manual	Manual
Safety and fault indicator				
Empty fluid reservoir alarm	N/A	Safety interlock	Visual and audible	Visual, lamp
Low fluid flow alarm	N/A	N/A	N/A	Visual, lamp
Temperature out of range alarm	N/A	Visual, lamp	Visual and audible	Visual, lamp
Compressor HP switch	Standard	Standard	Standard	Standard
Motor thermal overload	Standard	Standard	Standard	Standard
Emergency off	Standard, via MCB	Standard, via MCB	Standard, via MCB	Standard, via fuse
Warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced 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	Automatic	Automatic
Overcurrent restart mode	Manual	Manual	Manual	Manual
Options available				
Low temperature pack; SA00002	-	-	Available, to -10°C	Available, to -10°C
High temperature pack; SA00003	-	-	Available, to +65°C	Available, to +65°C
Water cooled KT; SA00004	Available	Available	Available	-
Non-return solenoid valve pack; SA00008	Available	Available	Available	Available
High temperature water circuit w/o heater; SA00009	Available	Available	Available	Available
Low flow alarm (KT); SA00010	Available	Available	Available	Standard
Onboard RS485 data protocol; SA00011	-	-	Available	Available
Standard VFC set; SA00012	-	-	Available	Available
In-line deionising cartridge and fittings; SA00013	Available	Available	Available	Available
Castors to replace rubber feet; SA00015	Available	Available	Available	Standard
CPC quick release connectors; SA00016	Available	Available	Available	Available
Installation kit; SA00017	Available	Available	Available	Available
Stainless steel pump and fittings; SA00018	Standard	Standard	Standard	Standard
KT filter kit; SA00019	Available	Available	Available	Available
Particulate filter; SA00021	Available	Available	Available	Available
Seismic mounts; SA00026	Available	Available	Available	Available
In-line UV decontamination; SA00027	Available	Available	Available	Available

LABORATORY CHILLERS AND RECIRCULATING CHILLERS 1050-3200W

The K1 and K3 were the very first chillers designed for the ATC range.

Initially designed for cooling the diffusion pumps in deposition systems, the K1 and K3 offer a versatile cooling platform for most laboratory, manufacturing and quality assurance applications. Both units are commonly preferred for their superior cooling performance combined with high output pressure and flow rates. More recently these units have become the chiller of choice in the imaging industry, cooling X-ray, electron and other high energy sources.

1050W to 3200W cooling capacity

- With a set point of 17°C in a 20°C ambient

-15°C to +140°C optional temperature range

- +4°C to 35°C as standard

Hot gas bypass as standard

+/- 0.1°C temperature stability as standard

- +/-0.01°C available as an option

Optional touchscreen controller

Dual readout 3 term PID controller as standard

Compact unit which is whisper quiet in operation

- Variable fan speed as an option

DI water compatible liquid circuit as standard

- Easy to maintain and replace

Pump options from 1 to 17 litres per minute

- internal pressure bypass for regulating flow as standard

Available in CSA and UL approved variants

- Through ETL listing

Multi-voltage and dual frequency units available, ideal for export

Adaptable for outdoor operation

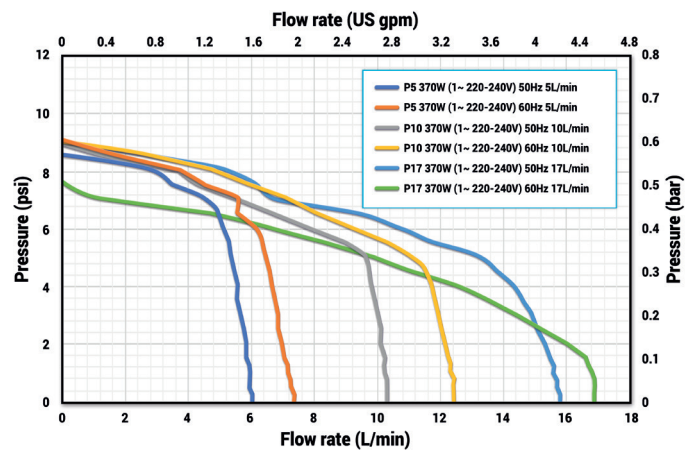
Easy to maintain and operate

Fits under the bench

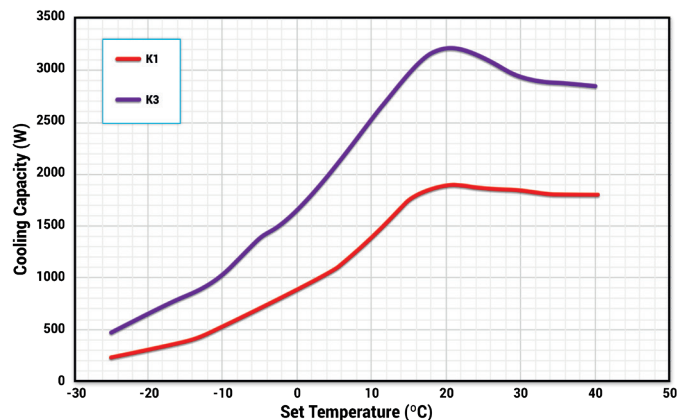
APPLICATIONS

- » Ion Beams
- » Lasers
- » XRD
- » X-ray sources
- » CT scanners

PUMP CAPACITY



COOLING CAPACITY



**Cooling capacity
(setpoint 20°C, ambient 20°C)****1750W/K1****3200W/K3****Physical attributes**

Physical dimensions (LxWxH) (mm)	545 x 420 x 575	540 x 550 x 713
Weight (kg)	66	82
Noise level (dB(A))	68	68
Toolless access	no	No

Temperature control attributes

Technology	Vapour Compression	Vapour Compression
Temperature range (standard)	+4°C to +35°C	+4°C to +35°C
Control method	PID	PID
Temperature stability (with constant load)	±0.1°C	±0.1°C
Temperature resolution	0.1°C	0.1°C

Water circuit attributes

System volume (L)	2.5	3.5
Pump type and capability	5L/min@6bar (PD) 10L/min@6bar (PD) 17L/min@6bar (PD)	5L/min@6bar (PD) 10L/min@6bar (PD) 17L/min@6bar (PD)
Pressure control (settable pressure relief valve)	Internal, PRV, 20-150psi	Internal, PRV, 20-150psi
Standard fittings	1/2" BSPPF + 3/4" BSPTM 3/8" + 1/2" hose barbs	1/2" BSPPF + 3/4" BSPTM 3/8" + 1/2" hose barbs
Standard chemical compatibility	Hexid, DI Water, Prop Glycol	Hexid, DI Water, Prop Glycol

Electrical attributes

(230Vac, 1~, 50Hz) 0-spec	Yes, 7.3A	Yes, 13A
(115Vac, 1~, 60Hz) 1-spec	Yes, 11.5A	-
(208-220Vac, 1~/2~, 60Hz) 2-spec	Yes, 8A	Yes, 13.5A
(Switchable 208Vac, 1~/2~, 60Hz 220Vac, 1~/2~, 60Hz 230Vac, 1~, 50Hz) 6-spec	Yes,	Yes,
(Switchable 115Vac, 1~, 60Hz 220Vac, 1~/2~, 60Hz 230Vac, 1~, 50Hz) 7-spec	Yes,	-
(208-230Vac, 1~/2~, 50/60Hz) 9-spec	Yes 7.3A	Yes 13.A
Overcurrent fault-cleared restart mode	Manual	Manual

Safety interlocks, protections, standards and indicators

1st party approvals	CE	CE
3rd party approvals	UL-OK on 9-spec	UL-OK on 9-spec
Empty fluid reservoir alarm	Visual, lamp	Visual, lamp
Low fluid flow alarm	Visual, lamp	Visual, lamp
Temperature out of range alarm	Visual, lamp	Visual, lamp
Compressor HP switch	Standard	Standard
Motor thermal overload	Standard	Standard
Emergency off	Standard, via MCB	Standard, via MCB
Warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced warranty options

Options available

Remote alarm/power-off; SA00001	Available	Available
Low temperature pack; SA00002	Available, to -20°C	Available, to -20°C
High temperature pack; SA00003	Available, to +65°C	Available, to +65°C
Water cooled K1; SA00005	Available	-
Water cooled K3; SA00007	-	Available
Non-return solenoid valve pack; SA00008	Available	Available
High temperature water circuit w/o heater; SA00009	Available	Available
Low flow alarm (KT); SA00010	Standard	Standard
Onboard RS485 data protocol; SA00011	Available	Available
Standard VFC set; SA00012	Available	Available
In-line deionising cartridge and fittings; SA00013	Available	Available
Stainless non-return solenoid valve; SA00014	Available	Available
CPC quick release connectors; SA00016	Available	Available
Installation kit; SA00017	Available	Available
Stainless steel pump and fittings; SA00018	Standard	Standard
Mod for outdoor use; SA00020	Available, to IP54	Available, to IP54
Particulate filter; SA00021	Available	Available
Flow meter pack; SA00022	Available	Available
Fan speed control (on/off); SA00023	Available	Available
Fan speed control (proportional); SA00024	Available	Available
Flow meter pack output to RS485; SA00025	Available	Available
Seismic mounts; SA00026	Available	Available
In-line UV decontamination; SA00027	Available	Available
Qwikfoot kit; SA00028	Available	Available
Stainless enclosure; SA00029	Available	Available

PRECISION INDUSTRIAL CHILLERS 3250W-14KW

The largest, and most powerful chillers in the K-series range from ATC.

The K4, K6, K9 and K12 provide maximum cooling power whilst still maintaining a small footprint and excellent temperature stability of $\pm 0.1^{\circ}\text{C}$. Designed to cool the larger diffusion pumps which came to the market, the K4-12 range of units later found a niche in the digital printing market. Perfect for cooling cryo compressors, these units have become popular in the laboratory as well as the optics and semi conductor industry.

With space inside for a variety of pump options, including centrifugal and positive displacement these systems provide an excellent platform for almost any application.

3250W to 1450W cooling capacity

- With a set point of 17°C in a 20°C ambient

-25°C to $+140^{\circ}\text{C}$ optional temperature range

- $+4^{\circ}\text{C}$ to 35°C as standard

Hot gas bypass as standard

$\pm 0.1^{\circ}\text{C}$ temperature stability as standard

- $\pm 0.01^{\circ}\text{C}$ available as an option

Optional touchscreen controller

Dual readout 3 term PID controller as standard

Low footprint and quiet in operation

- Variable fan speed as an option

DI water compatible liquid circuit as standard

- Easy to maintain and replace

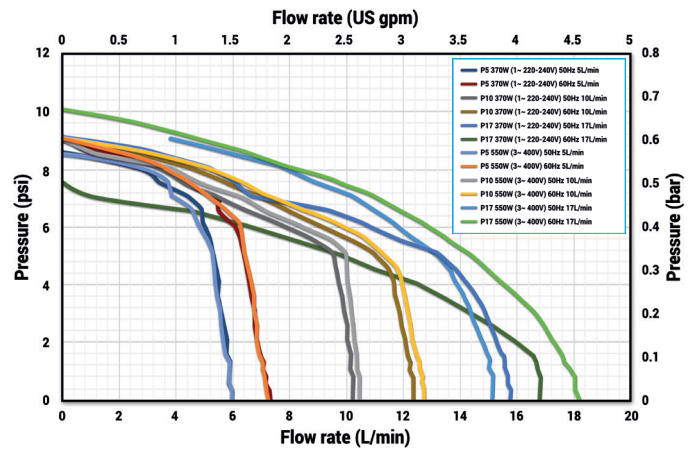
Pump options from 1 to 200 litres per minute

- Low and high pressure variants available
- High pressure water circuits include a bypass for regulation as standard

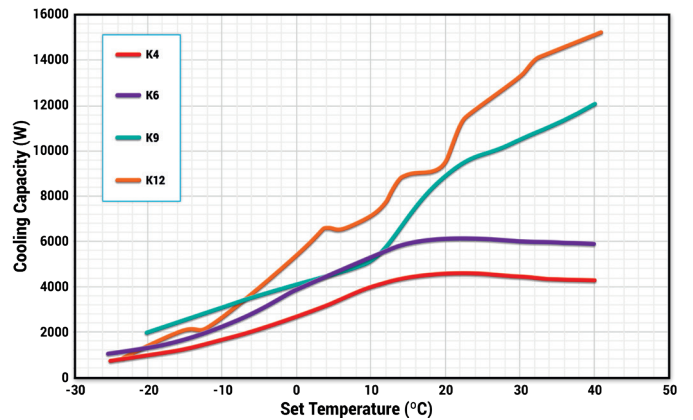
APPLICATIONS

- » Ion beam systems
- » Cryocompressors
- » Vacuum pumps
- » High speed spindles
- » Swarf management
- » Ophthalmic lens production
- » Semi-conductor manufacturer
- » Laser systems
- » Electron beam systems

PUMP CAPACITY



COOLING CAPACITY



Cooling capacity (setpoint 20°C, ambient 20°C)	4500W/K4	6000W/K6	9000W/ K9	14000W/ K12
Physical attributes				
Physical dimensions (LxWxH) (mm)	775 x 510 x 850	775 x 510 x 850	775 x 510 x 850	775 x 510 x 1130
Weight (kg)	125	125	125	135
Noise level (dB(A))	68	68	85	85
Toolless access	Yes	Yes	Yes	Yes
Temperature control attributes				
Technology	Vapour Compression	Vapour Compression	Vapour Compression	Vapour Compression
Temperature range (standard)	+4°C to +35°C	+4°C to +35°C	+4°C to +35°C	+4°C to +35°C
Control method	PID	PID	PID	PID
Temperature stability (with constant load)	±0.1°C	±0.1°C	±0.1°C	±0.2°C
Temperature resolution	0.1°C	0.1°C	0.1°C	0.1°C
Water circuit attributes				
System volume (L)	5	5	5.25	5.5
Pump type and capability	5L/min@6bar (PD) 10L/min@6bar (PD) 17L/min@6bar (PD) 25L/min@4bar (centrif)	5L/min@6bar (PD) 10L/min@6bar (PD) 17L/min@6bar (PD) 25L/min@4bar (centrif)	5L/min@6bar (PD) 10L/min@6bar (PD) 17L/min@6bar (PD) 25L/min@4bar (centrif)	5L/min@6bar (PD) 10L/min@6bar (PD) 17L/min@6bar (PD) 25L/min@4bar (centrif)
Pressure control (settable pressure relief valve)	Internal, PRV, 20-150psi *not on CF pump	Internal, PRV, 20-150psi *not on CF pump	Internal, PRV, 20-150psi *not on CF pump	Internal, PRV, 20-150psi *not on CF pump
Standard fittings	1/2" BSPPF + 3/4" BSPTM 3/8" + 1/2" hose barbs	1/2" BSPPF + 3/4" BSPTM 3/8" + 1/2" hose barbs	1/2" BSPPF + 3/4" BSPTM 3/8" + 1/2" hose barbs	1/2" BSPPF + 3/4" BSPTM 3/8" + 1/2" hose barbs
Standard chemical compatibility	Hexid, DI Water, Prop Glycol	Hexid, DI Water, Prop Glycol	Hexid, DI Water, Prop Glycol	Hexid, DI Water, Prop Glycol
Electrical attributes				
(230Vac, 1~, 50Hz) 0-spec	Yes, 13A	Yes, 13A	Yes, 20A	-
(208-220Vac, 1~/2~, 60Hz) 2-spec	Yes, 13.5A	Yes, 11A	-	-
(400Vac, 3~, 50Hz) 3-spec	Yes, 6.5A	Yes, 5A	Yes, 10A	Yes, 12A
(Switchable 208Vac, 1~/2~, 60Hz 220Vac, 1~/2~, 60Hz 230Vac, 1~, 50Hz) 6-spec	Yes,	Yes,	-	-
(208Vac, 3~, 60Hz) 8-spec	-	Yes, 7.5A	Yes, 17.5A	Yes, 17A
Overcurrent fault-cleared restart mode	Manual by default. Specify automatic with 'A' suffix on model number	Manual by default. Specify automatic with 'A' suffix on model number	Manual by default. Specify automatic with 'A' suffix on model number	Manual by default. Specify automatic with 'A' suffix on model number
Safety interlocks, protections, standards and indicators				
1st party approvals	CE	CE	CE	CE
3rd party approvals	UL-OK on 9, 8 or 3-spec	UL-OK on 9, 8 or 3-spec	UL-OK on 9, 8 or 3-spec	UL-OK on 9, 8 or 3-spec
Empty fluid reservoir alarm	Safety interlock	Safety interlock	Safety interlock	Safety interlock
Low fluid flow alarm	N/A	N/A	N/A	N/A
Temperature out of range alarm	N/A	N/A	N/A	N/A
Compressor HP switch	Standard	Standard	Standard	Standard
Motor thermal overload	Standard	Standard	Standard	Standard
Emergency off	Standard, via contactor	Standard, via contactor	Standard, via contactor	Standard, via contactor
Warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced warranty options	2 year parts, 1 year labour Enhanced warranty options
Options available				
Remote alarm/power-off; SA00001	Available	Available	Available	Available
Low temperature pack; SA00002	Available, to -20°C	Available, to -20°C	Available, to -20°C	Available, to -20°C
High temperature pack; SA00003	Available, to +65°C	Available, to +65°C	Available, to +65°C	Available, to +65°C
Water cooled K4/K6/K9/K12; SA00006	Available	Available	Available	Available
Non-return solenoid valve pack; SA00008	Available	Available	Available	Available
High temperature water circuit w/o heater; SA00009	Available	Available	Available	Available
Low flow alarm (KT); SA00010	Available	Available	Available	Available
Onboard RS485 data protocol; SA00011	Available	Available	Available	Available
Standard VFC set; SA00012	Available	Available	Available	Available
In-line deionising cartridge and fittings; SA00013	Available	Available	Available	Available
Stainless non-return solenoid valve; SA00014	Available	Available	Available	Available
CPC quick release connectors; SA00016	Available	Available	Available	Available
Installation kit; SA00017	Available	Available	Available	Available
Stainless steel pump and fittings; SA00018	Standard	Standard	Standard	Standard
Mod for outdoor use; SA00020	Available, to IP54	Available, to IP54	Available, to IP54	Available, to IP54
Particulate filter; SA00021	Available	Available	Available	Available
Flow meter pack; SA00022	Available	Available	Available	Available
Fan speed control (on/off); SA00023	Available	Available	Available	Available
Fan speed control (proportional); SA00024	Available	Available	Available	Available
Flow meter pack output to RS485; SA00025	Available	Available	Available	Available
Seismic mounts; SA00026	Available	Available	Available	Available
In-line UV decontamination; SA00027	Available	Available	Available	Available
Qwikfoot kit; SA00028	Available	Available	Available	Available
Stainless enclosure; SA00029	Available	Available	Available	Available

GLOBAL NETWORK AND DISTRIBUTORS

As a company we recognise the importance of superior after sales service and are working towards providing this on a worldwide basis through a network of carefully chosen partners and distributors. We are able to offer a combination of on site, telephone and return to base after sales support 24 hours a day.

We are proud of our ISO9001:2015 and ISO14001:2015 certification, knowing that this reinforces our dedication to quality and the environment. We are excited by the rising number of applications in which we can invest our expertise, and look forward to continued growth over the coming years.

It is because of our attention to quality and openness to cooperation that makes ATC the manufacturer of choice for our customer base around the world.



THERMAL EXCHANGE LTD

Telephone: +44 (0) 116 254 6652
Email: service@thermalexchange.co.uk
Web: thermalexchange.co.uk

APPLIED THERMAL CONTROL LTD

Telephone: +44 (0) 1530 83 99 98
Email: support@app-therm.com
Web: app-therm.com

