A01

The A01 Airblast Cooler from Applied Thermal Control's A-Series stands out for its compact design, housed in the M-Series enclosure, which significantly reduces its footprint. This makes it particularly suitable for environments where conserving space is essential. The cooler operates by forcing ambient air over process fluids, such as water, glycols, or oils, to effectively remove heat.

This method eliminates the need for a conventional refrigeration system and is adept at maintaining temperatures above the ambient level, demonstrating its efficiency in various settings. With a setpoint 10°C above ambient, the A01 is capable of delivering 1kW of cooling.

The internal workings of the A01 feature a 24V DC system, which simplifies electrical requirements and enhances safety, key for diverse industrial applications. This characteristic, combined with its ability to work with multiple heat transfer fluids, extends its utility across several applications. It is particularly effective in scenarios like cooling inverters, welding torches, and hydrogen electrolysis systems, as well as in machinery used in uniaxial press and stamping processes.

The A01's design ensures it is a versatile and safe cooling solution, ideal for a wide range of industrial and technical applications that require effective temperature control in constrained spaces. Its suitability for various fluids, coupled with the compact and effi cient airblast cooling method, makes the A01 an advantageous option for settings where reliable, space-efficient cooling is critical on a global scale.

- Compact and Space-Efficient
- Efficient Cooling
- Versatile and Safe
- Adaptable to Various Fluids

Enclosure Size

180 x 435 x 380mm

Pump Options

Positive Displacement Pump

Power Supply Options

Universal Power Supply Available
Internals operate on 24V DC
Single-phase

Cooling Capacity

Setpoint 5°C above ambient – 0.5kW
Setpoint 10°C above ambient – 1kW
Setpoint 20°C above ambient – 2kW

Specifications

A01		
Administrative Data	ATC Model Name	A01
	TE Model Number	AB-Compact 10
Physical Attributes	Physical Dimensions (mm)	W180 x D435 x H380mm
	Construction	Sheet steel gauge 1.5mm Epoxy polyester powder coat
	Mounting Type	Rubber feet
	Acceptable Environment	Indoors or outdoors sheltered
	Dry Weight (kg)	10kg
	Wet Weight (kg)	12kg
	Noise Level (db(A)) at 1 metre	<54
	Product IP Rating	20
	Toolless Access	No
	Enclosure Drawing Number	MA485
Temperature Control Attributes	Cooling/Refrigeration Technology	Airblast
	Evaporator Technology	N/A
	Duty at +20°C ambient, Setpoint +20°C	N/A
	Duty at +30°C ambient, Setpoint +20°C (kW)	N/A
	Duty at +35°C ambient, Setpoint +20°C (kW)	N/A
	Cooling Capacity with 'Setpoint' 5°C Above Ambient/Primary	500W
	Cooling Capacity with 'Setpoint' 10°C Above Ambient/Primary	1000W
	Cooling Capacity with 'Setpoint' 20°C Above Ambient/Primary	2000W
	Refrigerant & Charge	N/A
	Ambient Temperature Range (Standard)	-15°C to +50°C (setpoint dependent on load)
	Ambient Temperature Range (Extended	-20°C to +55°C (setpoint dependent on load)
	Control Method	None, Continuous Fan
	Temperature Stability (with Constant Load)	Load & ambient dependent
	Temperature Resolution	N/A
	Maximum Total Heat Rejection	Applied load, plus power in

Water Circuit Attributes	Designed Process Fluid Flow Rate	1.3L/min
	Designed Process Fluid Temperature	up to 50°C
	Designed Pressure	up to 8 bar
	Process Temperature Range (Standard)	ambient to +60°C
	Process Temperature Range (Extended)	ambient to +80°C
	Maximum Return Line Temperature (Standard)	60°C
	Maximum Return Line Temperature (Extended)	90°C
	Pump Options	PC3
	Visible Level Indicator	No
	Integrated Drain	No
	System Volume	1l
	Tank Type	Stainless steel, flow through
	Flow and Pressure Control	No
	Connection Size (Fittings to convert size as needed available)	Pushfit 12mm
	Construction Materials	All metal parts stainless steel
	Fluid Compatibility	Hexid Fluid, Sterile water, Propylene Glycol
Electrical Attributes	24VDC – Lspec	Available, 0.5A@230Vac
	(90-264Vac, 1~/2~, 50-60Hz) U-spec	Available, 5A@24Vdc
	(230Vac, 1~, 50Hz) 0-spec	–
	(115Vac, 1~, 60Hz) 1-spec	–
	(208-220Vac, 1~/2~, 60Hz) 2-spec	–
	(400Vac, 3~, 50Hz) 3-spec	–
	(460Vac, 3~, 60Hz) 4-spec	–
	200/100V, 50/60Hz, 1ϕ 5-spec	–
	(Switchable 208Vac, 1~/2~, 60Hz | 220Vac, 1~/2~, 60Hz | 230Vac, 1~, 50Hz) 6-spec	–
	(Switchable 115Vac, 1~, 60Hz | 220Vac, 1~/2~, 60Hz | 230Vac, 1~, 50Hz) 7-spec	–
	(208Vac, 3~, 60Hz) 8-spec	–
	(208-230Vac, 1~/2~, 50/60Hz) 9-spec	–
	Overcurrent Fault-Cleared Restart Mode	Automatic
Safety Interlocks, Protections, Standards, and Indicators	1st Party Approvals	CE
	3rd Party Approvals	
	Empty Fluid Reservoir Alarm	Not included
	Half-Full Fluid Reservoir Indicator	Not included
	Low Fluid Flow Alarm	Not included
	Temperature Out of Range Alarm	Not included
	Compressor HP Switch	N/A
	Interlock Restored, Restart Mode	Automatic
	Overcurrent Protection	Standard, via fuse
	Motor Thermal Overload	Standard, via fuse
	Warranty Options	2 years parts, one year labour

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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.

www.wolflabs.co.uk

Tel : 01759 301142

Fax : 01759 301143

sales@wolflabs.co.uk

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