

A12



The A12 Airblast Cooler, part of the diverse A-Series from Applied Thermal Control, is designed for high-capacity cooling and flexibility. Encased within the spacious K12 enclosure, the A12 incorporates three twin heat exchangers, totalling six fans to ensure efficient and reliable cooling performance. This ample enclosure space not only accommodates the substantial cooling mechanism but also allows for the addition of various optional features to tailor the cooler to specific requirements. The A12's adaptability is further enhanced by its compatibility with both centrifugal and positive displacement pumps, providing versatility to meet different cooling needs. Available in both single- and three-phase configurations, the A12 can integrate into various electrical systems. Offering a cooling capacity of 12kW above ambient temperature, the A12 is a robust unit suited for intensive cooling demands.

The design of the A12, with its multiple twin heat exchangers, ensures a high level of redundancy in its cooling mechanism. The presence of six fans guarantees that cooling processes remain uninterrupted, even if one of the fans encounters an issue. This design aspect is helpful for applications where consistent operation is vital, and downtime can have significant repercussions.

The A12's focus on reliable, continuous operation makes it an ideal choice for critical applications where steady and effective cooling is paramount.

Applications for the A12 Airblast cooler are diverse and include areas requiring substantial and dependable cooling solutions. These applications range from cooling furnaces and asphalt screening to providing temperature regulation for magnetic stirrers, large motors used in mixing processes, hydrogen electrolysis systems, Roots blowers, and helicopter motors.

- ✓ High-Capacity Cooling Design
- ✓ Versatile Pump Compatibility
- ✓ Robust Redundancy Features
- ✓ Wide Application Suitability



Enclosure Size

775 x 510 x 850mm



Pump Options

Positive Displacement Pump
Centrifugal Pump



Power Supply Options

Single-Phase
Three-Phase



Cooling Capacity

Setpoint 5°C above ambient –
6kW
Setpoint 10°C above ambient –
12kW
Setpoint 20°C above ambient –
24kW

Specifications

Administrative Data	ATC Model Name	A12
	TE Model Number	AB100
Physical Attributes	Physical Dimensions (mm)	L775 x W510 x H1130mm
	Construction	Sheet steel gauge 1.5mm Epoxy polyester powder coat
	Mounting Type	Floorstanding on castors
	Acceptable Environment	Indoors or outdoors sheltered
	Dry Weight (kg)	120
	Wet Weight (kg)	131
	Noise Level (db(A)) at 1 metre	≤65
	Product IP Rating	24
	Toolless Access	No
	Enclosure Drawing Number	MA252
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	6kW
	Cooling Capacity with 'Setpoint' 10°C Above Ambient/Primary	12kW
	Cooling Capacity with 'Setpoint' 20°C Above Ambient/Primary	24kW
	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	17l/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	P17, P15, P40
	Visible Level Indicator	No
	Integrated Drain	No
	System Volume	11l
	Tank Type	Stainless steel, flow through
	Flow and Pressure Control	No
	Connection Size (Fittings to convert size as needed available)	1/2" BSPPF, 3/4"BSPPF, or 1"BSPPF 3/8" + 1/2" hose barbs
	Construction Materials	All metal parts stainless steel
	Fluid Compatibility	Hexid Fluid, Sterile water, Propylene Glycol
Electrical Attributes	24VDC – Lspec	–
	(90-264Vac, 1~/2~, 50-60Hz) U-spec	–
	(230Vac, 1~, 50Hz) 0-spec	–
	(115Vac, 1~, 60Hz) 1-spec	–
	(208-220Vac, 1~/2~, 60Hz) 2-spec	–
	(400Vac, 3~, 50Hz) 3-spec	Available
	(460Vac, 3~, 60Hz) 4-spec	–
	200/100V, 50/60Hz, 1Ø 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	Available
	(208-230Vac, 1~/2~, 50/60Hz) 9-spec	Available
	Overcurrent Fault-Cleared Restart Mode	Manual restart
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	Manual by default. Specify automatic with 'A' suffix on model number
	Overcurrent Protection	Standard, via MCB
	Motor Thermal Overload	Standard, via MCB
	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.

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