A40

The A40 Airblast Cooler, the largest in Applied Thermal Control's A-Series, is encased in a robust enclosure, making it particularly well-suited for outdoor installations. This large unit is designed to handle significant cooling tasks, making it an ideal choice for industrial applications that require extensive cooling capacity. Due to the high flow rates necessary for its operation, the A40 is specifically configured to accommodate centrifugal pumps, which are capable of handling the cooler's demanding requirements. Available in both single- and three-phase electrical configurations, the A40 offers versatility in terms of power compatibility, ensuring it can be effectively integrated into a wide range of industrial settings. With a cooling capacity of 40kW at a setpoint 10°C above ambient temperature, the A40 stands out for its ability to manage substantial cooling needs.

The design of the A40, focused on large-scale cooling, is ideal for applications where significant heat dissipation is essential. The outdoor-friendly enclosure ensures durability and resilience, making the A40 a reliable choice for challenging external environments where exposure to the elements is a factor. The inclusion of centrifugal pumps within the unit emphasises its suitability for processes that demand high flow rates, ensuring efficient and consistent cooling across various applications.

The A40 is particularly effective in applications such as cooling industrial furnaces, asphalt screening, and large motors used in mixing processes. Its capacity for hydrogen generation cooling also highlights its adaptability to specialised industrial processes.

- Robust Outdoor Design
- High Cooling Capacity
- Centrifugal Pump Configuration
- Versatile Power Compatibility

Enclosure Size

1180 x 1180 x 1933mm

Pump Options

Centrifugal Pump

Power Supply Options

Three-Phase

Cooling Capacity

Setpoint 5°C above ambient – 30kW
Setpoint 10°C above ambient – 40kW
Setpoint 20°C above ambient – 80kW

Specifications

A40		
Administrative Data	ATC Model Name	A40
	TE Model Number	AB400
Physical Attributes	Physical Dimensions (mm)	W1180 x D1180 x H1933mm
	Construction	Structural elements 1.5mm gauge Body covers in 1.2mm gauge Floorstanding, no castors 1.5mm CR4 MILD STEEL, Leatherette Semi-Gloss paint
	Mounting Type	Floorstanding, no castors
	Acceptable Environment	Indoors or outdoors sheltered
	Dry Weight (kg)	160
	Wet Weight (kg)	400
	Noise Level (db(A)) at 1 metre	≤65
	Product IP Rating	24
	Toolless Access	No
	Enclosure Drawing Number	MA407
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	20kW
	Cooling Capacity with 'Setpoint' 10°C Above Ambient/Primary	40kW
	Cooling Capacity with 'Setpoint' 20°C Above Ambient/Primary	80kW
	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	40l/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	P40, P80, P120
	Visible Level Indicator	No
	Integrated Drain	No
	System Volume	250l
	Tank Type	Stainless steel, flow through
	Flow and Pressure Control	No
	Connection Size (Fittings to convert size as needed available)	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, 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	Available
	(208-230Vac, 1~/2~, 50/60Hz) 9-spec	Available
	Overcurrent Fault-Cleared Restart Mode	Manual
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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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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