

The XR-Series from Applied Thermal Control

The XR-Series is a self-contained system, comprised of a modulated primary supply, the water-to-water heat exchanger, and the coolant storage tank. A wide range of non-ferrous/stainless steel pumps are available, both positive displacement and centrifugal, with varying flows and pressures to suit a multitude of requirements. All pumps have fan-cooled electric motors and are supplied in 304 & 316 stainless steel as standard.

The XR-Series is suitable for use with a wide range of fluids including:

- Water
- Glycols
- Oils



Features of the XR-Series:

- Supplied complete with circuit breakers and on/off switches.
- Coolant pump starting contactors
- Pump motor protection
- IP54 protection
- 24V control circuit available
- Temperature gauge
- Pressure gauge
- Coolant safety bypass
- Visual tank level indicator

The XR-Series

XR04

The XR04 helps you to utilise otherwise wasted space within 19" electrical rack enclosures. It is designed to provide 4kW of cooling at 10°C above the temperature of the primary water circuit.

XR04

RACK MOUNTED WATER-TO-WATER HEAT EXCHANGER



HEIGHT OF UNIT

5U High



PUMP OPTIONS

Positive Displacement Pump



POWER SUPPLY OPTIONS

Single-phase



COOLING CAPACITY

4kW Cooling Capacity at 10°C
+/- 1 °C Temperature Stability



TEMPERATURE RANGE

+4°C to +70°C

Commonly requested options:

- High temperature pack, available to +75°C
- Non-return solenoid valves
- In-line deionising cartridge and fittings
- Castors to replace rubber feet
- CPC quick release connectors
- Installation kit
- Particulate filter
- Fan speed control (on/off)

The XR-Series

XR08

The XR08 allows space within existing 19" electrical rack enclosures to be utilised, reducing system footprint. It is able to provide 8kW of cooling at 10°C above the temperature of the primary water circuit.

XR08

RACK MOUNTED WATER-TO-WATER HEAT EXCHANGER



HEIGHT OF UNIT

5U High



PUMP OPTIONS

Positive Displacement Pump



POWER SUPPLY OPTIONS

Single-phase



COOLING CAPACITY

8kW Cooling Capacity at 10°C
+/- 1 °C Temperature Stability



TEMPERATURE RANGE

+4°C to +70°C

Commonly requested options:

- High temperature pack, available to +75°C
- Non-return solenoid valves
- In-line deionising cartridge and fittings
- Castors to replace rubber feet
- CPC quick release connectors
- Installation kit
- Particulate filter
- Fan speed control (on/off)

The XR-Series

XR15

The XR15 is designed to be mounted within 19" electrical racking, minimising system footprints and utilising otherwise wasted space. It provides 15kW of cooling at 10°C above the temperature of the primary water circuit.

XR15

**RACK MOUNTED
WATER-TO-WATER
HEAT EXCHANGER**



HEIGHT OF UNIT

5U High



PUMP OPTIONS

Positive Displacement Pump



POWER SUPPLY OPTIONS

Single-phase



COOLING CAPACITY

15kW Cooling Capacity at 10°C
+/- 1 °C Temperature Stability



TEMPERATURE RANGE

+4°C to +70°C

Commonly requested options:

- High temperature pack, available to +75°C
- Non-return solenoid valves
- In-line deionising cartridge and fittings
- Castors to replace rubber feet
- CPC quick release connectors
- Installation kit
- Particulate filter
- Fan speed control (on/off)
- Onboard RS485 data protocol

The XR-Series

Common Applications

Common Applications include:

- Laser systems
- X-ray sources
- Resistance welding machines
- High frequency generators
- Furnaces
- General process cooling



Nominal capacity at 10°K*(i.e. return line 0°K above outlet)**(i.e. outlet 10°K above house supply)***4kW****8kW****15kW****Administrative Data**

CAD assembly dwg no.

MA345

MA345

MA345

ATC new model name

XR04059

XR08109

XR15179

Physical attributes

Physical dimensions(mm)

19" rack, 5U high, 500mm
deep19" rack, 5U high, 500mm
deep19" rack, 5U high, 500mm
deep

Weight (kg)

30

30

30

Toolless access

No

No

No

Temperature control attributes

Technology

Water-to-water heat
exchangerWater-to-water heat
exchangerWater-to-water heat
exchanger

Temperature range (standard)

+4°C to +70°C

+4°C to +70°C

+4°C to +70°C

Maximum return line temperature

+65°C

+65°C

+65°C

Control method

Modulating valve

Modulating valve

Modulating valve

Temperature stability (with constant
load)

±1°C

±1°C

±1°C

Settable temperature resolution

0.1°C

0.1°C

0.1°C

Water circuit attributes

System volume (L)

2.3

2.3

2.3

Pump Type

5L/min Rotary vane (PD)

10L/min Rotary vane (PD)

17L/min Rotary vane (PD)

Pump capability

6bar@5L/min

6bar@10L/min

6bar@17L/min

Pressure control (settable pressure
relief valve)

Internal, PRV, 20-150psi

Internal, PRV, 20-150psi

Internal, PRV, 20-150psi

Standard fittings

1/2" BSPPF

1/2" BSPPF

1/2" BSPPF

Standard chemical compatibility

Hexid Fluid, Water,
Propylene GlycolHexid Fluid, Water,
Propylene GlycolHexid Fluid, Water,
Propylene Glycol**Electrical attributes**

(208-230Vac, 1/2, 50/60Hz) 9-spec

Yes, 4.5A

Yes, 4.5A

Yes, 4.5A

Safety and fault indicator

1st party approvals

CE

CE

CE

3rd party approvals

UL-ready

UL-ready

UL-ready

Empty fluid reservoir alarm

Safety Interlock

Safety Interlock

Safety Interlock

Low fluid flow alarm

Visual lamp

Visual lamp

Visual lamp

Temperature out of range alarm

N/A

N/A

N/A

Motor thermal overload

Standard

Standard

Standard

Emergency off

Standard, via fuse

Standard, via fuse

Standard, via Fuse

Warranty options

2 year parts, 1 year labour
Enhanced warranty options2 year parts, 1 year labour
Enhanced warranty options2 year parts, 1 year labour
Enhanced warranty options

Interlock restored, restart mode

Automatic

Automatic

Automatic

Overcurrent fault-cleared restart
mode

Manual

Manual

Manual

Options available

Remote alarm/power-off; SA00001	N/A	N/A	N/A
Low temperature pack; SA00002	N/A	N/A	N/A
High temperature pack; SA00003	Available, to +75°C	Available, to +75°C	Available, to +75°C
Water cooled KT; SA00004	N/A	N/A	N/A
Water cooled K1; SA00005	N/A	N/A	N/A
Water cooled K4/K6/K9/K12; SA00006	N/A	N/A	N/A
Water cooled K3; SA00007	N/A	N/A	N/A
Non-return solenoid pack; SA00008	Available	Available	Available
High temperature water circuit w/o heater; SA00009	N/A	N/A	N/A
Low flow alarm (KT); SA00010	Available	Available	Available
Onboard RS485 data protocol; SA00011	N/A	N/A	Available
Standard VFC set; SA00012	-	-	-
In-line Deionising cartridge and fittings; SA00013	Available	Available	Available
Stainless non-return solenoid valve; SA00014	-	-	-
Castors to replace rubber feet; SA00015	Available	Available	Available
CPC quick release connectors; SA00016	Available	Available	Available
Installation kit; SA00017	Available	Available	Available
Stainless steel pump and fittings; SA00018	-	-	-
KT filter kit; SA00019	-	-	-
Mod for outdoor use; SA00020	-	-	-
Particulate filter; SA00021	Available	Available	Available
Flow meter pack; SA00022	-	-	-
Fan speed control (on/off); SA00023	Available	Available	Available
Stainless enclosure; SA00029	Available	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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