



# 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

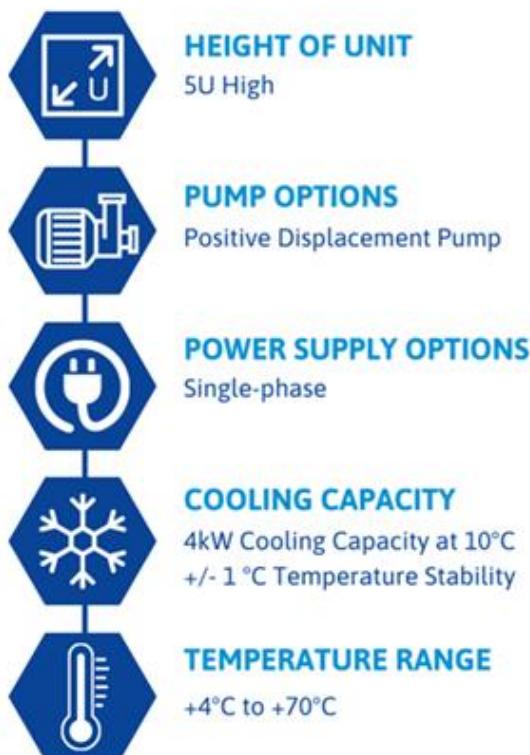
# The XR-Series

## 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



### 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)



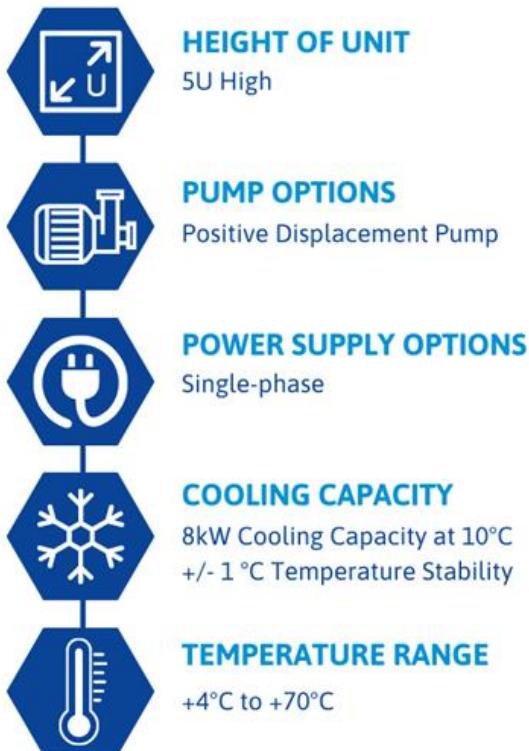
# The XR-Series

## 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



### 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)

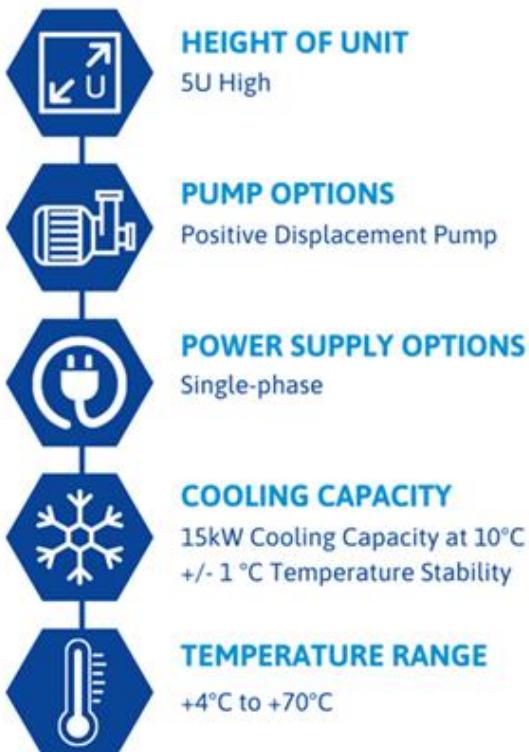
# The XR-Series

## 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



### 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



<i>Nominal capacity at 10'K (i.e. return line 0'K above outlet) (i.e. outlet 10'K above house supply)</i>	4kW	8kW	15kW
<u>Administrative Data</u>			
CAD assembly dwg no.	MA345	MA345	MA345
ATC new model name	XR04059	XR08109	XR15179
<u>Physical attributes</u>			
Physical dimensions(mm)	19" rack, 5U high, 500mm deep	19" rack, 5U high, 500mm deep	19" rack, 5U high, 500mm deep
Weight (kg)	30	30	30
Toolless access	No	No	No
<u>Temperature control attributes</u>			
Technology	Water-to-water heat exchanger	Water-to-water heat exchanger	Water-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
<u>Water circuit attributes</u>			
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 Glycol	Hexid Fluid, Water, Propylene Glycol	Hexid Fluid, Water, Propylene Glycol
<u>Electrical attributes</u>			
(208-230Vac, 1/2, 50/60Hz) 9-spec	Yes, 4.5A	Yes, 4.5A	Yes, 4.5A
<u>Safety and fault indicator</u>			
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 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
Overcurrent fault-cleared restart mode	Manual	Manual	Manual

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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; SA000019	-	-	-
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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