



# HYDRAULIC OIL COOLER ALUMINIUM RADIATOR





# **UNIAIR** XR



## **FEATURE:**

- o 100% Aluminium Cooler Material
- o Working Pressure up to 26 Bar/ 377 PSI
- o Available in Fan Voltage of 12V DC, 24V DC and 220V AC
- o Manufactured and pressure tested in our facility prior to shipping

#### **MATERIAL:**

Cooler: Aluminium
Fan Blade Sheet Steel

Fan Shroud: Steel, Powder Coated

#### **INDUSTRY AND APPLICATION:**

✓ Machinery
Hydraulic Presses
Hydraulic Power Pack
CNC Machining/ Lathe



#### ✓ Industrial

Plastic Injection Moulding Compactors Casting Machines Lube Oil Cooling



#### ✓ CONSTRUCTION

Excavator, Loader, Roller, Concrete Mixer, Backhoe Loader, Concrete Pump, Crane, Drilling Machine, Paver



# **STANDARD PRODUCT TYPE:**

Model	Oil Flow	<b>Heat Dissipation</b>	<b>Pressure Drop</b>	Connection	Dimension (mm)
XR24	70 L/Min	2.9 kW	0.6 Bar	3/4" BSP	350 x 245 x 125
XR34	100 L/Min	5.8 kW	0.8 Bar	1" BSP	430 x 345 x 210
XR44	150 L/Min	11.0 kW	1.2 Bar	1" BSP	530 x 445 x 250
XR46	200 L/Min	16.0 kW	1.6 Bar	1 1/4" BSP	480 x 510 x 240
XR49	250 L/Min	19.1 kW	1.8 Bar	1 1/4" BSP	480 x 530 x 265

- The above data are calculated using the assumption of ISO VG32 OIL with inlet T of 65 Deg C & Ambient T of 35 Deg C on a 1 pass unit. Actual Unit performance depends on machine operating conditions.
- We reserve the right to incorporate our latest design without notice or obligation.

# **UNIAIR** XM



## **FEATURE:**

- o 100% Aluminium Cooler Material
- o Working Pressure up to 26 Bar/ 377 PSI
- o Available in 1 pass or 2 pass configuration
- o Available with various motor 3 Phase Electric, Hydraulic and Pneumatic
- o Manufactured and pressure tested in our facility prior to shipping

## **MATERIAL:**

Cooler: Aluminium

Fan Blade: Glass Reinforced Polypropylene (GRP)

Fan Shroud: Steel, Powder Coated Motor: Cast Iron Frame (IP55)

## **INDUSTRY AND APPLICATION:**

✓ Machinery Hydraulic Presses Hydraulic Power Pack CNC Machining/ Lathe



✓ Mining

Lube Oil Cooling

Gearbox Cooling

Mining Truck Oil Cooler



✓ Industrial

Plastic Injection Moulding

Compactors

Casting Machines

Lube Oil Cooling



✓ Rail

Lubricating Oil Cooler

Manifold Air Cooler



✓ Power Generation

Hydraulic Power Units

Hydraulic System Cooling

Generator Oil Cooler



✓ Compressor
Oil Cooler
Intercooler/ Aftercooler



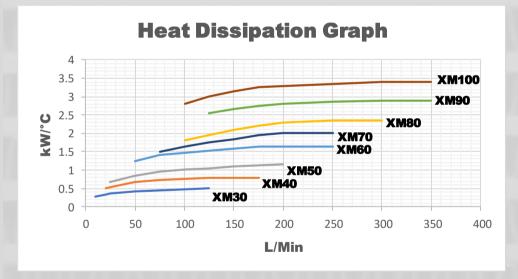


# **STANDARD PRODUCT TYPE:**

Model	Oil Flow	<b>Heat Dissipa-</b>	<b>Pressure Drop</b>	Connection	Dimension (mm)
	(2 Pass)	tion (2 Pass)	(2 Pass)		
XM30	150 L/Min	14.0 kW	2.7 Bar	1 1/4" BSP	352 x 445 x 530
XM40	200 L/Min	23.4 kW	2.7 Bar	1 1/4" BSP	500 x 540 x 530
XM50	250 L/Min	31.5 kW	2.7 Bar	1 1/4" BSP	590 x 640 x 530
XM60	300 L/Min	46.5 kW	2.7 Bar	1 1/2" BSP	700 x 740 x 530
KM70	350 L/Min	53.0 kW	2.7 Bar	1 1/2" BSP	750 x 845 x 530
KM80	400 L/Min	67.5 kW	2.7 Bar	2" BSP	840 x 945 x 530
XM90	450 L/Min	93.0 kW	2.7 Bar	2" BSP	952 x 1050 x 530
XM100	500 L/Min	120.0 kW	2.7 Bar	2" BSP	1050 x 1155 x 530

- The above data are calculated using the assumption of ISO VG32 OIL with inlet T of 65 Deg C & Ambient T of 35 Deg C on a 1 pass unit. Actual Unit performance depends on machine operating conditions.
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# PERFORMANCE (2 Pass Unit):



#### **Graph Explanation**

The graph shows specific heat dissipation in kW/°C

#### Example

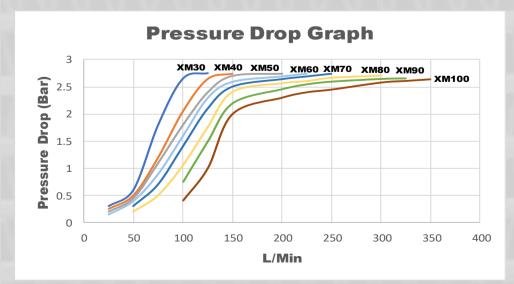
Oil Flow: 100 L/Min
Max Oil Temp: 65 Deg C
Ambient Air Temp: 30 Deg C

Heat Dissipation:

 $XM50 = 1.0 \times (65-30) = 35 \text{ kW}$ 

#### Oil Flow Rates

Up to twice the published flowrate can be achieved on single pass units if required



Dissipation & Pressure Drop are based on oil viscosity of 30 cST at 55 Deg C

