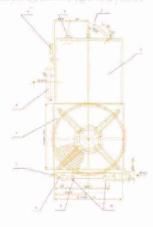


INSTALLATION & INSTRUCTIONS

- Please ensure the cooler is installed in the position where smooth cooling airflow is available; need to avoid hot air flow back to cooler
- 2. In order to ensure longer life span of this cooler, the Anti-Shock Device must be used to connect the cooler on the truck chassis
- Ensure there is no air inside the hydraulic circuit during the initial stage, fill the
 oil until reached the center point of oil level plug and make sure the tank cover is
 tightened completely
- The function of thermal switch is to make sure the fan START working when the oil temperature reach the upper limit and STOP working when the temperature back to lower limit
- The thermal switch must always in good condition because the DC motor is not suitable for long time conditioning. This DC motor life span is design at ~2000H
- Thermal switch is mounted on the cooler with a M14 x 1.5 bolts. Maximum torque of 20 Nm is recommended when revolving this bolt, broken nut due to over torque will not be considered as warranty claim
- Replacement of filter cartridge is necessary, first service interval is at 500H and thereafter everyone 2000H interval is recommended. The oil flow is cut off automatically when the cartridge is removed, therefore don't need to drain all the oil when replace the cartridge
- 8. Avoid direct water spray on the cooler fan core and other electric devices during washing

DESCIPTION of MAIN COMPONENT



No.	Description	
1	Oil Tank	
2	Exhaust Tube	
3	Tank Cover	
4	Oil Level Plug	
5	Filter Assembly	
6	Fan Guider	
7	Thermal Switch	
8	End Plate	
9	Protective Net	
10	Supporting Arm	

POWER HEAT EXCHANGER MANUFATURING CO., LTD Wuxi City, P. R. China Sales Inquiry: asia.powerful@gmail.com



CONCRETE MIXER TRUCK OIL COOLER

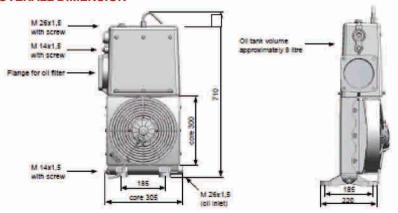


OIL COOLERS FOR CONCRETE MIXERS

The POWERFUL brand OIL COOLER is specially design for concrete mixer truck application, this type Oil Cooler come with integrated tank and filter type. Various models are available for difference truck electric systems and weather conditions. Integrated tank and filter solution is proven to be the most reliable and compact solution for application from 5 to 18 cubic meters drum capacity.

Model Code	MR21-12V	MR21-24V	MR26-24V
Fan Motor/rotation	12 volt/2700 rpm	24 volt/2700 rpm	24 volt/2700 rpm
Fan Diameter (mm)	305	305	305
Tank Capacity (I)	18 – 20L	18 – 20L	25L
Mixer Drum Size	5 – 7 M ³	8 – 12 M ³	12 – 18 M³

OVERALL DIMENSION



Madal Cada	MR21A-12V	MR26A-24V	
Model Code	MR21A-24V		
Core (mm)	300*305	330*335	
Height, H (mm)	700	730	
Length, L1 (mm)	1 85	205	
Width, W1 (mm)	180	200	
Width, W2 (mm)	230	245	

Note:

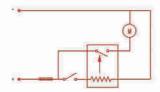
Please check the technical drawings for detail specifications

THERMAL SWITCH

Temperature range Highest Temperature		Switch				
Upper Limit +3-2c	Lower Limit +3-20	Continuous	Instant	Width (SW), mm	Thread Type (G)	Spare Part Code
55	50	65	85	22	M14 x 1.5	WB023-4A
65	60	75	95	22	M14 x 1.5	WB023-4B

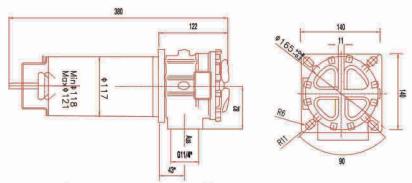
Note: Max. torque to revolve the thermal switch is 20Nm





OIL FILTER

♦ Overall Oil Filter Dimension



- ♦ Filter working temperature: 25 110 °C
- ♦ At flow rate 100L/min, oil filter resistance at 0.09 bar
- Filter grid is 10 μm with 100l/min flow rate

Replacement	Spare Part Code		
Oil Filter Assembly	EF-120F		
Filter Cartridge	EF-120.100		





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