

European Filter Solutions
Filter solutions for Industry



OIL MIST COLLECTOR & AIR CLEANER INSTALLATION MANUAL

Now available from leading UK filter supplier
EUROPEAN FILTER SOLUTIONS LTD

Welcome to the Oil Mist Collector & Air Cleaner installation manual

This manual is designed to provide detailed guidance to ensure that you fully understand the product and use it correctly.

European Filter Solutions reserves the right for the final interpretation of this installation manual. Any revisions are not allowed without the authority of European Filter Solutions.

Please read the safety precautions section carefully before using the product to ensure the safety yourself and others.

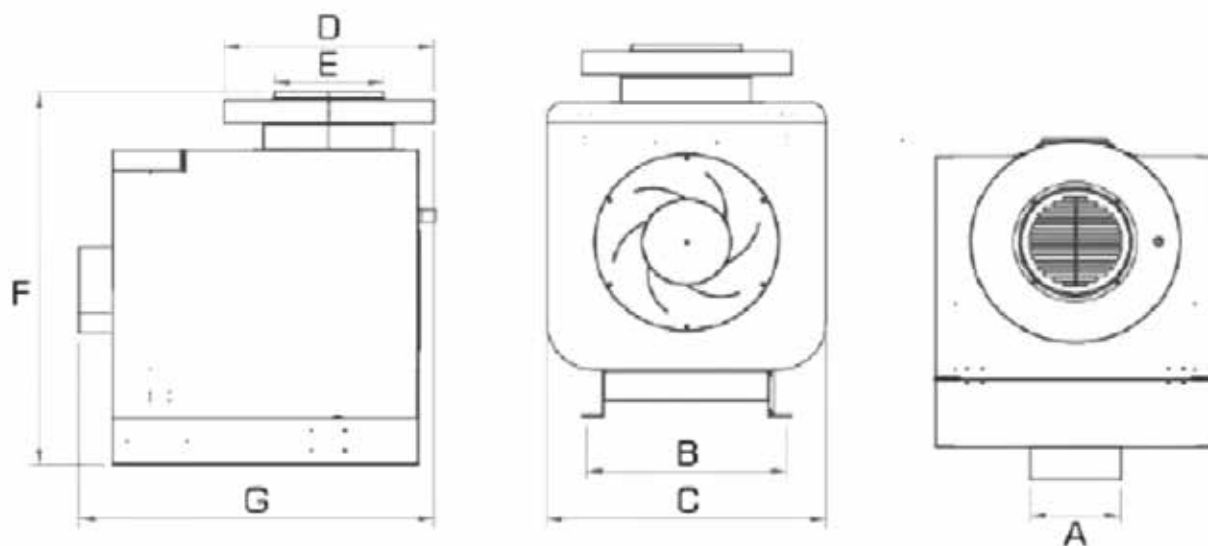
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Product Specifications

Model	Voltage	HP	Air Flow (50Hz/60Hz)	Noise	Weight	Intake	Effect space
EFS-001-R	3 Phase 220/380V	0.5hp (0.37kw)	11/16 (m ³ /min)	≤ 62dB	38kg	Ø125mm	≥4m ³
EFS-002-R	3 Phase 220/380V	1.0hp (0.75kw)	16/20 (m ³ /min)	≤ 68dB	48kg	Ø150mm	≥6m ³
EFS-003-R	3 Phase 220/380V	1.5hp (1.2kw)	21/26 (m ³ /min)	≤ 70dB	55kg	Ø150mm	≥8m ³

Model	A	B	C	D	E	F	G
EFS-001-R	122	183	325	340	178	505	541
EFS-002-R	146	238	380	340	178	566.2	563.4
EFS-003-R	146	308	450	340	178	626.2	568.4



Product Components

Images	Component	Spec	EFS-001-R	EFS-002-R	EFS-003-R
	Duct Hose (PVC) (standard)	Diameter	Ø125	Ø150	Ø150
	Hose Clamp (standard)	Diameter	Ø125	Ø150	Ø150
	Flange (standard)	Diameter	Ø125	Ø150	Ø150
	Motor Starter (standard)	Size	60mm x 60mm x 60mm		
	Rubber Mount (standard)	Size	M8- Ø40x20L		
	Wire (standard)	Size	4 poles oil prevent wires (1.25mm)		

Product Components

Images	Component	Spec	EFS-001-R	EFS-002-R	EFS-003-R
	Oil Return Tube (standard)	Diameter	4/8"		
	Adjustable Hose (optional)	Size	The length is customised		
	High Effect Filter (optional)	Size	330mm x 300mm		
	Hepa Filter (optional)	Size	330mm x 600mm		
	Adjustable Stand (optional)	Size	500*380*800mm~1400mm (height adjustable)		




Mounting the unit and installation

These instructions should be followed carefully to avoid safety issues.

1. The oil mist collector should be installed on the stable part of the machine such as the machine top.
2. Follow the “local power distribution” to avoid safety issues.
3. Do not share the power in the starter.
4. Once the installation is complete, start up the oil mist collector to check everything is working correctly. If not, please contact our technical service department immediately.

Images	Installation Steps
	<p>Select a suitable position to install the flange. For recommended position, please find installation examples) (EFS-001-R 125mm) (EFS-001-R 150mm) (EFS-001-R 150mm)</p>
	<p>Secure the flange with screws, then seal the crack with silicon.</p>
	<p>Add silicon to both sides of the duct hose to ensure no coolant will leak out</p>
	<p>Connect one side of the duct hose and the flange with the hose clamp.</p>
	<p>Connect the other side of the wind pipe and the suction outlet with the hose clamp.</p>
	<ol style="list-style-type: none"> 1. Make sure the voltage matches the machine, unit and motor starter. 2. Power off the machine.
	<ol style="list-style-type: none"> 3. Connect the wires between machine and motor starter, in the order of red, white, black (RST) 4. Connect the wires between unit and motor starter, in the order of red, white, black (UVW)
	<ol style="list-style-type: none"> 5. Once step 4 is complete, start the unit to make sure the motor steers clockwise. (If not, please swap the red and black wires)
	<p>Connect the oil return hose where it is tagged, then place above the coolant tank or a container. The end of the tube must NOT be submerged.</p>
	<p>Install the terminal filter. Tip: If difficult to install, add some liquid such as water or coolant between the terminal outlet of the unit and the terminal filter.</p>

Maintenance

Images	Instruction
	<p>Take out the stainless net in the flange, then clean it up with the wind gun. Clean at least once a week to maintain the air flow.</p>
	<p>The picture shows a stainless net which has not been cleaned for a long period. This will cause the air flow to decrease. We suggest cleaning it with a high pressure water pistol.</p>
	<p>The interior filter in the oil mist collector should be cleaned up once every three months</p>

Troubleshooting

The starter is on but there is no suction	
Possible reasons	Solution
<ol style="list-style-type: none"> 1. The stainless net in the flange is blocked. 2. The terminal filter is blocked. 	<p>First, clean the stainless net in the flange then contact the technical staff.</p>

The starter is on but it is not working	
Possible reasons	Solution
<ol style="list-style-type: none"> 1. The wiring connection is incorrect. 2. The starter is faulty. 	<p>Please contact our service department on account of the problem being an electrical one.</p>

The sound is unusual	
Possible reasons	Solution
<ol style="list-style-type: none"> 1. The stainless net in the flange is blocked. 2. The extrusion of the wind pipe leads to the unusual sound. 	<p>Please clean the stainless net in the flange first to release the constriction in the wind pipe.</p>

The vibration is unusual	
Possible reasons	Solution
<ol style="list-style-type: none"> 1. The oil mist collector is not be installed in the correct position. 	<p>The vibration may be caused by the gap between the machine and the oil mist collector. Please try to move the oil mist collector to a more stable part of the machine.</p>



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