



Part of Absolent Air Care Group



F Monitor 2 & 2+

INSTALLATION MANUAL

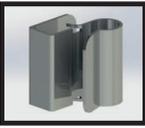
F Monitor 2 & 2+

The F Monitor 2 is a monitoring device that measures airflow and time to indicate when the Filtermist needs servicing, or if there are any blockages in the extraction system which may be affecting performance. F Monitor 2+ uses a sensor to provide additional functionality which measures vibration and motor temperature. F Monitor 2 units are supplied with an extra output source should this additional functionality be required. The monitor can be set for specific applications using a dedicated app which uses Bluetooth technology .

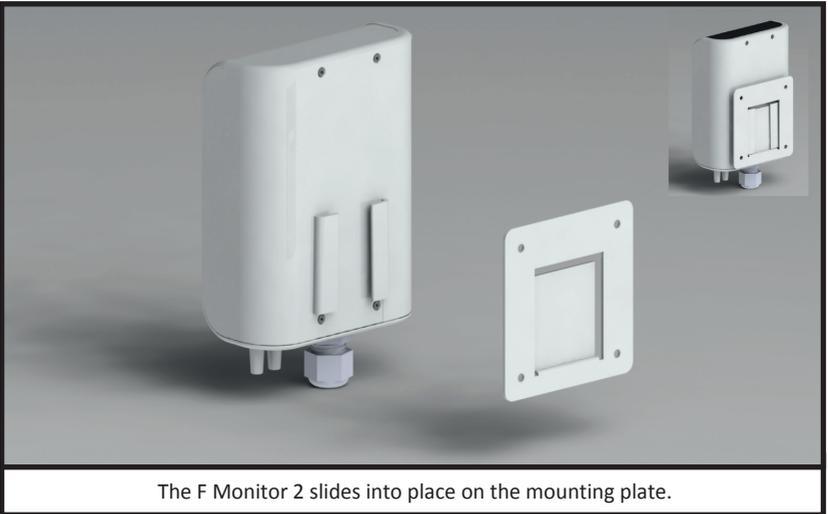
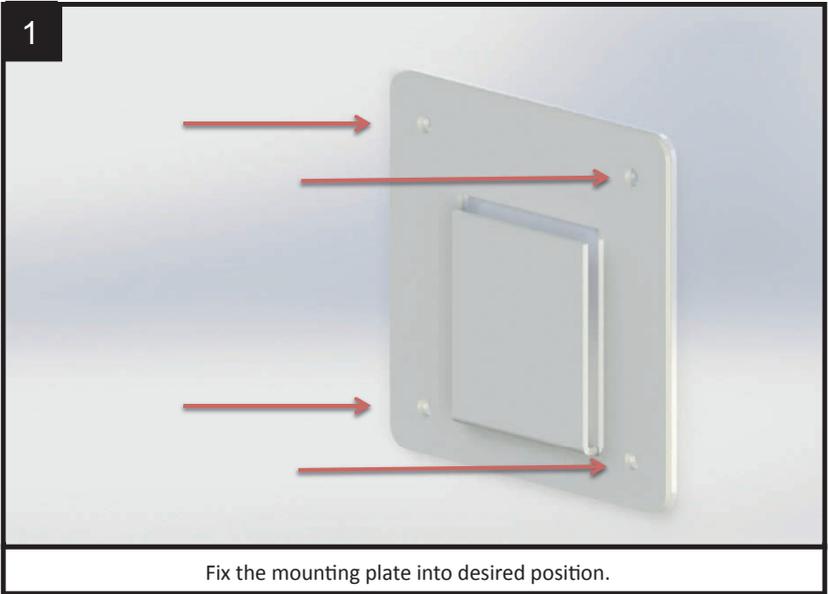
The F Monitor 2 uses a traffic light system of coloured LED lights to show the operating status of the Filtermist unit. Green lights mean everything is fine, amber means it is time to arrange a service. Red indicates that immediate action is required. The Bluetooth symbol is illuminated with a blue light when the F Monitor 2 is connected to the app.

This manual describes how to install the F Monitor 2. Please read these instructions fully before commencing work.

Warning! Ensure the Filtermist unit is isolated from the electrical supply before installing the monitor.

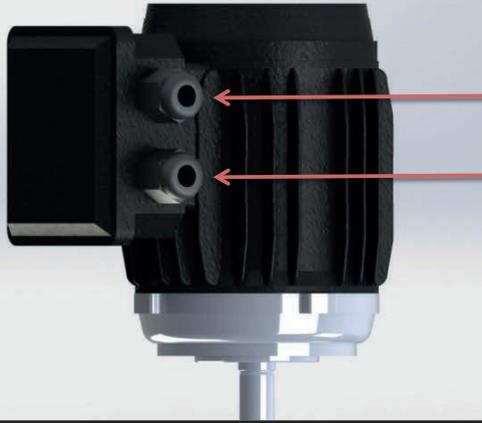
1. Mounting Plate		x1
2. F Monitor 2		x1
3. 3 Metre Cable (fitted)		x1
4. Nozzle		x1
5. 3 Metre tube		x2
6. Motor Clip		x1
7. Sensor		Optional

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Power to the F Monitor 2 is supplied from the motor terminal box.
Note: an additional cable entry hole may be needed and a suitable cable gland fitted.

Warning! Ensure the Filtermist unit is isolated from the electrical supply before installing the monitor.

*For 0.18kw motor use M16 cable gland, 0.55/1.1kw motor use M20 and 1.5/2.2kw use M25

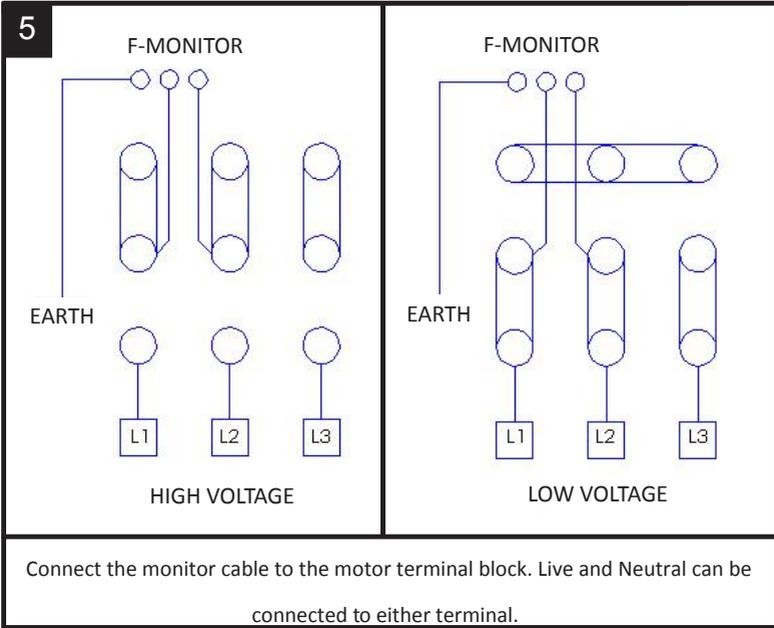
4



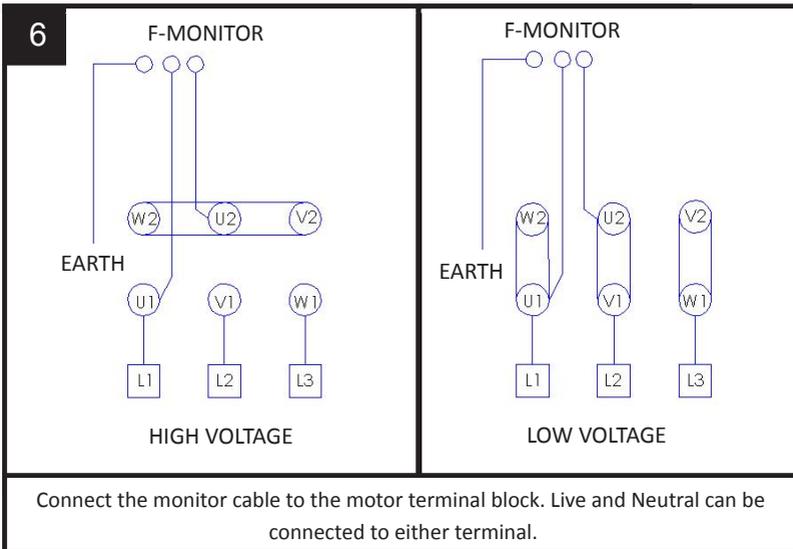
The F Monitor 2 comes with 3 metres of cable already prewired. If a longer length is needed ensure it is connected as shown above.

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Connection for motors with 9 pin terminal blocks



Connection for motors with 6 pin terminal blocks



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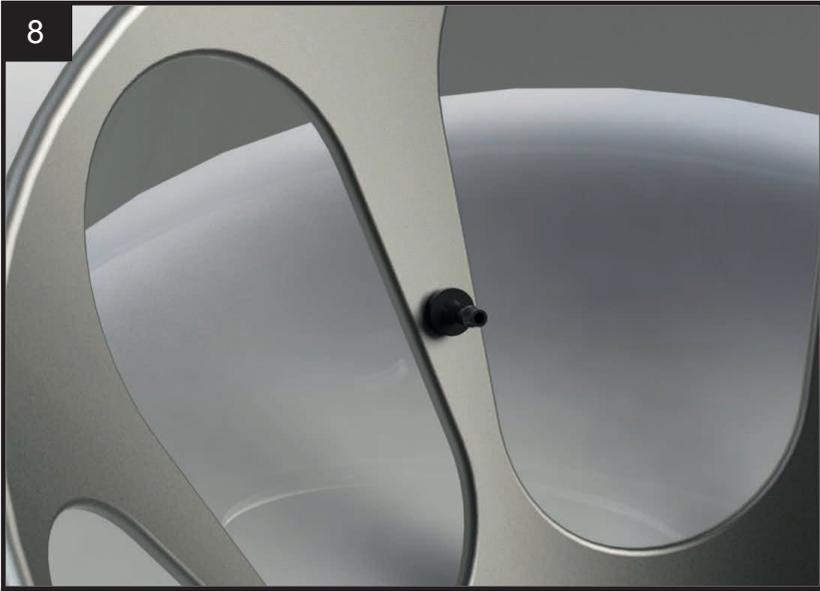
Optional signal switch can be connected to control panel/traffic light system as an additional signal of the F Monitor 2's status

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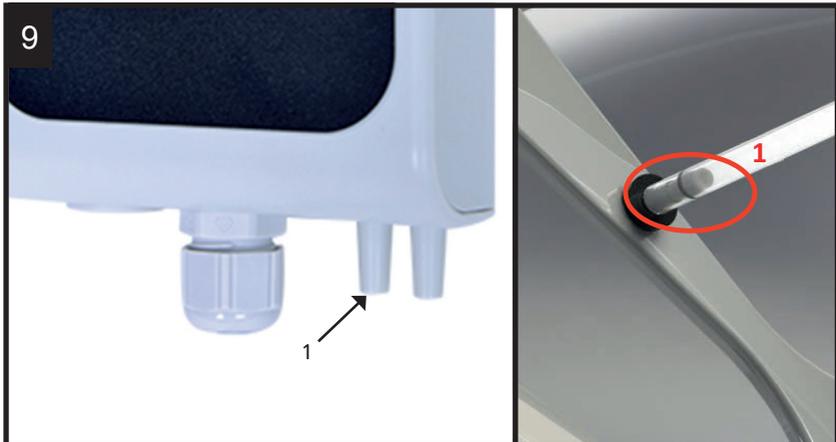


Remove plug to access the optional output signal if desired.
There are 2 options for the volt free relay error signal.

- Option 1 is a general error signal that signals if any of the channels (air, time, vibration & temperature) turn red.
- Option 2 is an error signal for the vibration only.



To connect the monitor to the Filtermist unit fit the nozzle to the diaphragm

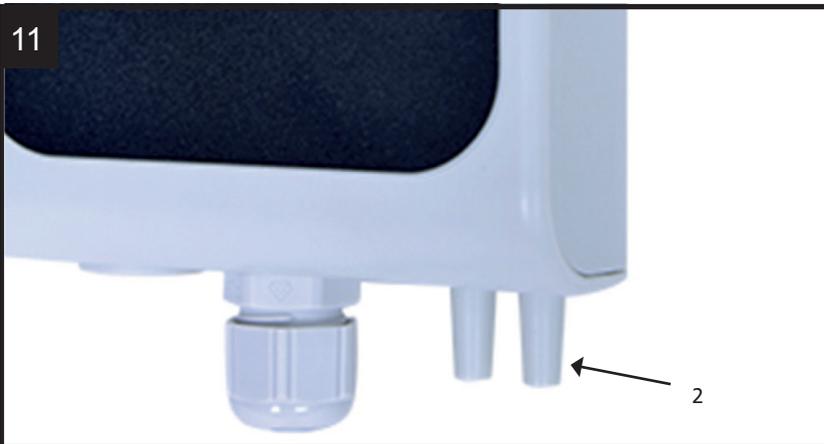


Fix spigot 1 (left) to the nozzle

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Attach motor clip to motor vane and clip tube 2 into position (tube should point vertically upwards)



Connect tube 2 to the F monitor 2 spigot 2 (right).

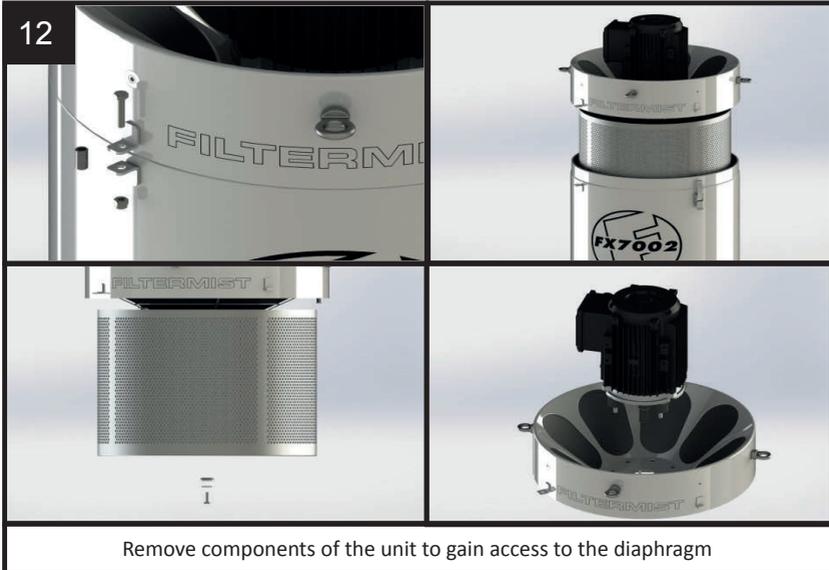
IMPORTANT - When fitted with an Afterfilt , ensure tubes are not pinched or trapped as this will affect the function of the F Monitor 2. It may be necessary to enlarge the seal cut-out

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For Filtermist units that are already in operation or without the pre-drilled hole in the exhaust diaphragm the following instructions should be followed.

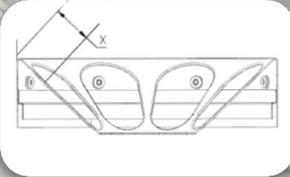
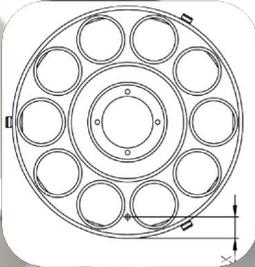
IMPORTANT – When fitting the F Monitor 2 to units already installed it is important that the unit is serviced and that the ducting and extraction point are clean. This will ensure the monitor is recording the maximum airflow after installation.

Failure to carry out this service may result in incorrect readings from the monitor.



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FILTER UNIT	DISTANCE (X)	DIAMETER
FX2002	30mm	7mm
FX3002	30mm	7mm
S200	40mm	7mm
S400	65mm	7mm
S800	65mm	7mm
FX4002	75mm	7mm
FX5002	75mm	7mm
FX6002	105mm	7mm
FX7002	105mm	7mm

Drill a hole in position for the nozzle to be placed, and then follow connection instructions as per image 9

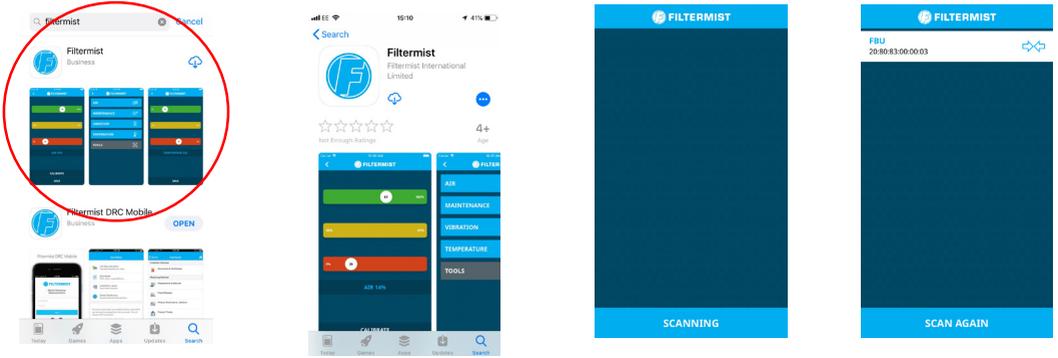
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Optional: Use the hole on the side of the motor to attach the sensor, ensure that the sensor is secure and rigid - there must be a gap between the motor and the sensor. It should not be loose, otherwise the vibration reading will not be correct.

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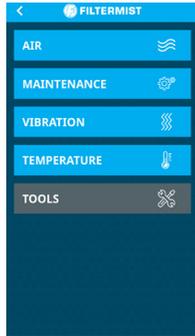
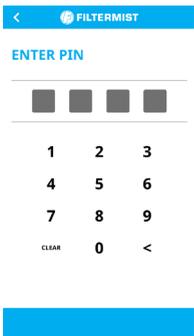
F Monitor 2 settings using app from Apple app store



Make sure the Filtermist unit is running.
Download the Filtermist app from the Apple app store and click to open



Click 'scan' and select the code showing on the app that matches the code on the side of the F Monitor 2 you want to set-up



Enter the pin (located inside the unit box)



Select airflow, press calibrate and save.

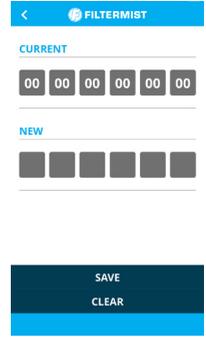
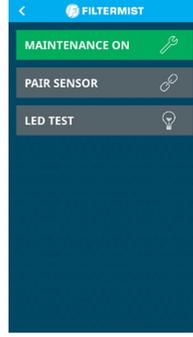
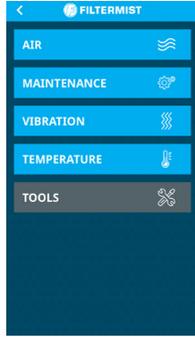
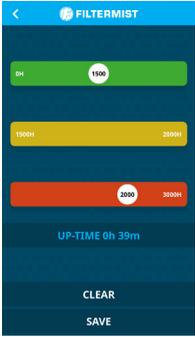


Leave default setting (as shown) or alter limits as required and then press save.

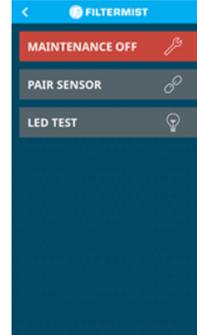
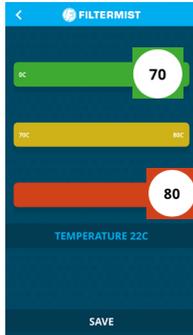


Same for maintenance

F Monitor 2 & 2+



Tools -> Pair sensor, enter the MAC number located on the side of the sensor and press save. If successful the lights for vibration and temperature will turn on. (optional F monitor 2+)



Leave default setting (as shown) or alter limits as required and then press save.



Maintenance time can be switched off.

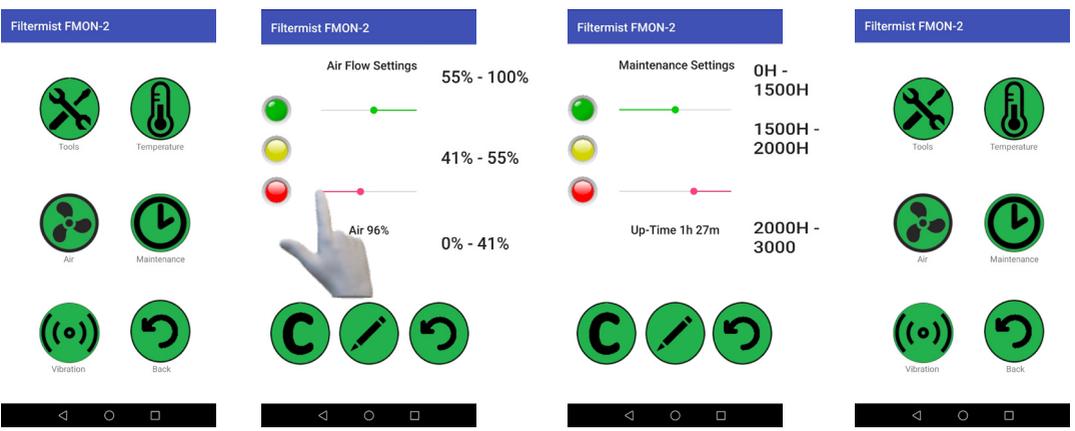
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F Monitor settings using app from Google play store



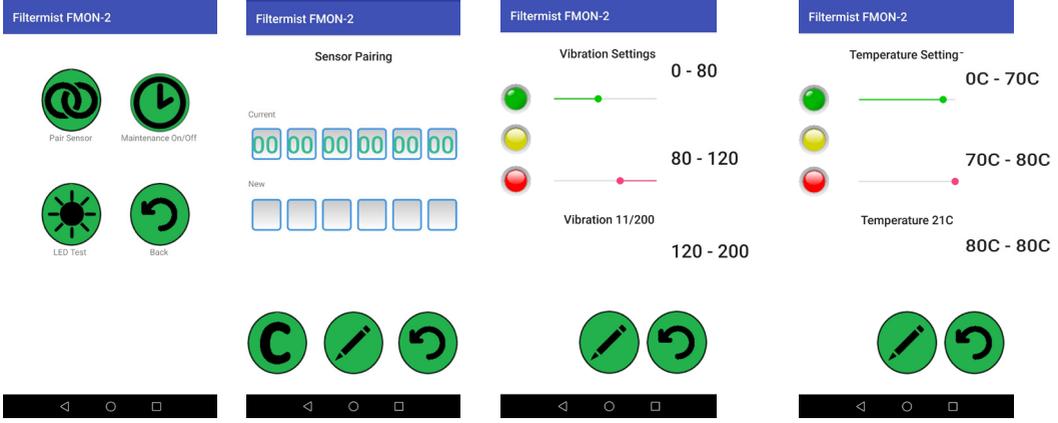
Make sure the Filtermist unit is running. Download the app from Google Play and open

Click 'scan' and select the code showing on the side of the F Monitor 2 you want to set-up → Enter the pin (located inside the unit box)



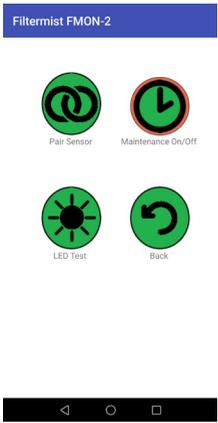
Select airflo , press calibrate ("C") and save (pen image). → Leave default setting (as shown) or alter limits as required and then press save. → Same for maintenance. "C" letter in maintenance settings are for clearing maintenance time.

F Monitor 2 & 2+



Tools -> Pair sensor, enter MAC number located on side of the sensor and press save. If successful the lights for vibration and temperature will turn on (optional F monitor 2+)

Leave default setting (as shown) or alter limits as required and then press save (pen image).



Maintenance time can be switched off.

Troubleshooting

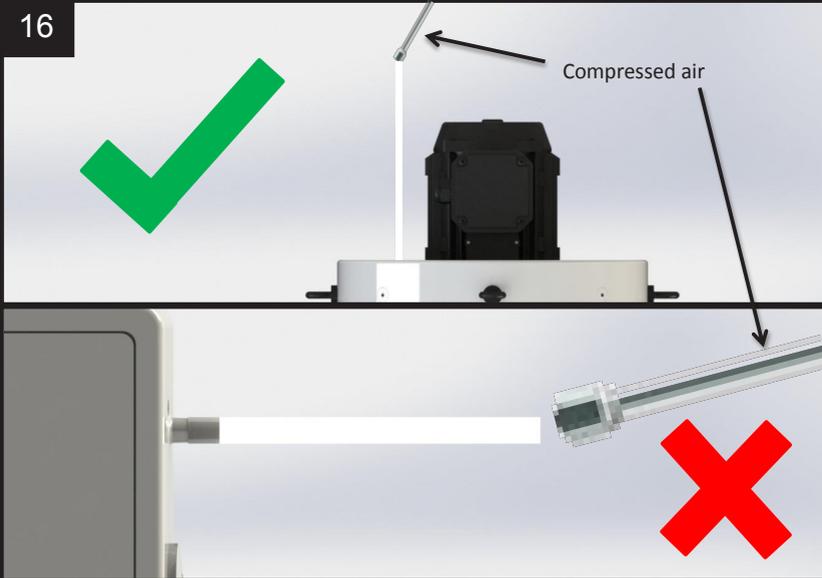
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The image shows a dark background with the 'FILTERMIST' logo in blue. Below the logo are two status indicators: a red one with a fan icon and the word 'AIR', and a green one with a clock icon and the word 'TIME'.

When on RED light check for a blockage before calling for a service

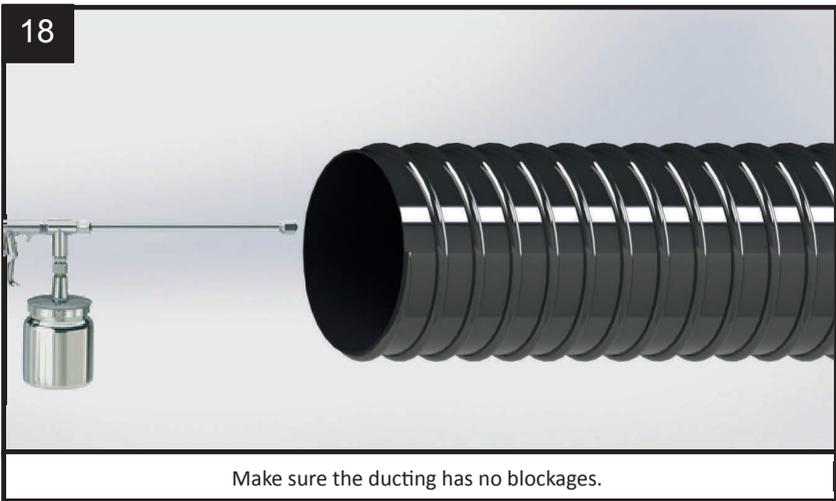
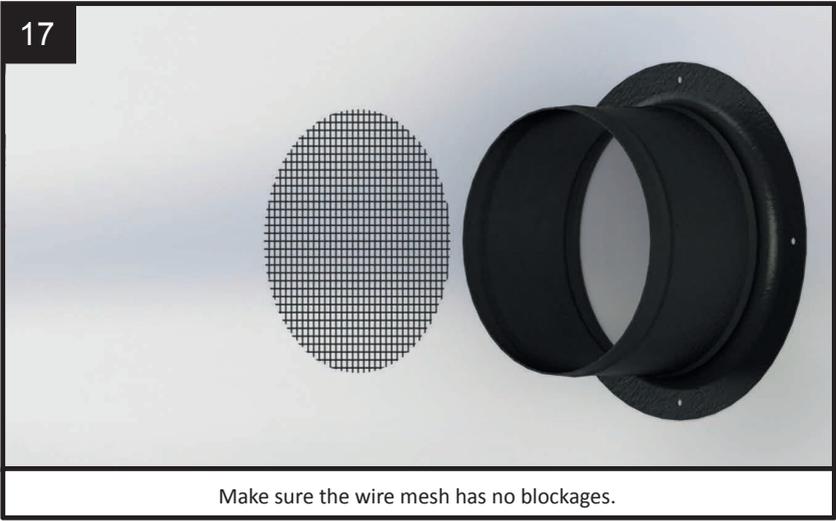
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The diagram illustrates the correct and incorrect way to apply compressed air. The top part shows a green checkmark and a nozzle blowing air down a tube towards a device, labeled 'Compressed air'. The bottom part shows a red 'X' over a nozzle blowing air towards the side of a tube, indicating an incorrect method.

Blow compressed air down the tube towards the nozzle, not towards the F Monitor 2

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Make sure the Afterfilter isn't blocked by removing it from the Filtermist unit.

F Monitor 2 & 2+

EU DECLARATION OF CONFORMITY		 FILTERMIST	
Manufacturer's name:	Filtermist Limited	Equipment covered by this declaration:	
Full address:	Telford 54 Business Park, Nedge Hill, Telford Shropshire TF3 3AL	Description:	Monitoring device for Filtermist units
		Function:	To be fitted to S & FX Series Filtermist units to monitor performance
		Model:	F Monitor 2 and F Monitor 2+.
		Serial No.:	See unit
The equipment conforms to all the requirements of the Low Voltage Directory 2014/35/EU.			
The machinery also conforms to the following Directives:	EMC Directive 2014/30/EC RoHS Directive 2011/65/EC		
The following standards have been used:	EN 60950:2006 +A11:2009 +A1:2010 +A2:2013, EN 55032:2015, EN 55035:2017, EN 6100-4-2:2009, EN 61000-4-5:2014+A1:2017, EN 61000-3-2:2014, EN 61000-3-3:2013, EN 61000-4-4:2012		
The relevant authorised person undertakes to transmit, in response to a reasoned request by the national authorities, relevant information on the machinery. This information will be transmitted by: (email, post)			
Person authorised to make this declaration:	Name:	Simon Baker	
	Position in company:	Group Engineering Manager	
	Signature:		
	Place of Declaration:	Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL	
	Date of Declaration:	1 st January 2023	

UKCA DECLARATION OF CONFORMITY



Manufacturer's name:		Filtermist Limited	Equipment covered by this declaration:	
Full address:	Telford 54 Business Park, Nedge Hill, Telford Shropshire TF3 3AL	Description:		Monitoring device for Filtermist units
		Function:		To be fitted to S & FX Series Filtermist units to monitor performance
		Model:		F Monitor 2 and F Monitor 2+.
		Serial No.:		See unit
The equipment conforms to all the requirements of the Electrical Equipment (Safety) Regulations 2016				
The machinery also conforms to the following Directives:		Electromagnetic Compatibility Regulations 2016 The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012		
The following standards have been used:		BS EN 60950:2006 +A11:2009 +A1:2010 +A2:2013, BS EN 55032:2015, BS EN 55035:2017, BS EN 6100-4-2:2009, BS EN 61000-4-5:2014+A1:2017, BS EN 61000-3-2:2014, BS EN 61000-3-3:2013, BS EN 61000-4-4:2012		
The relevant authorised person undertakes to transmit, in response to a reasoned request by the national authorities, relevant information on the machinery. This information will be transmitted by: (email, post)				
Person authorised to make this declaration:	Name:		Simon Baker	
	Position in company:		Group Engineering Manager	
	Signature:			
	Place of Declaration:		Filtermist Limited, Telford 54 Business Park, Nedge Hill, Telford, Shropshire, TF3 3AL	
	Date of Declaration:		1 st January 2023	

F Monitor 2 & 2+

Demo Film

Scan the QR code to see the F Monitor 2 & 2+ in use or visit:

<https://www.filtermist.com/oil-mist-collectors/oil-mist-collector-accessories/service-and-spares.aspx>



This manual is also available in Portuguese, Polish, French, German, Spanish, and Italian. Please contact your local distributor for information, details at www.filtermist.com



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