



User Guide (original)

Oil mist and Oil smoke filter

- A•smoke^{80T}
- A•smoke^{80TF}
- A•smoke^{160T}
- A•smoke^{240T}
- A•smoke^{320T}



A•smoke^T Central filters

1 BASIC INFORMATION

1.1 Introduction

In the following documentation you will find all essential information concerning safety, installation, start-up and maintenance.

This product is manufactured and designed in accordance with the EU directives that this product is embraced by.

In order to maintain this status, installation, repair and maintenance may only be carried out by qualified personnel and the use of original spare parts.

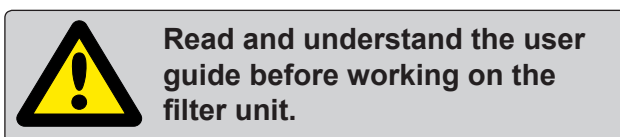
For advice regarding technical service or the need of spare parts please contact Absolent AB or your closest accredited dealer. Contact information can be found under the heading "Service addresses".

1.2 Application area

The filter unit A•smoke is only designed to clean oil-contaminated air. Other use of the filter unit is prohibited, except where the manufacturer guarantees the function.

1.3 Table of Contents:

1	Basic information	2
1.1	Introduction	2
1.2	Application area	2
1.3	Table of Contents	2
2	Approved to CE-directives, UL and CSA standards	3
3	List of warning plates	3
4	Safety instructions	4
5	Transport/Set up/ Installation	5
5.1	Transport into the building	5
5.2	Set up	5
5.2.1	Lift to the vertical position A•smoke ^{80T}	5
6	Function /Design	6
7	Technical data A•smoke	7
8	Electrical connection	9
8.1	General	9
8.2	Instructions for the connection of accessories	9
8.3	Level sensor	9
8.4	Electrical connection of A•monitor ..	10
9	To be checked before the first start of the filter unit	11
10	Care/maintenance	12
10.1	General	12
10.2	Service chart	12
11	Electronic manometer	13
11.1	Function	13
11.2	Pressure settings	13
12	Handling the filter cassettes	14
12.1	General	14
12.2	Instruction for replacing the filter cassette - A•smoke ^T central filter	14
12.3	Worn out filter cassettes	15
13	Accessories	15
13.1	Fluid trap	15
13.2	Spray system	15
13.3	Frequency converter	16
13.4	Prefilter for severe dirt	16
14	Fault tracing	17
15	Absolent warranties	18
16	Spare parts	18
17	Service addresses	18
18	EC Declaration of conformity	19




2 APPROVED TO CE-DIRECIVES, UL AND CSA STANDARDS


The A•smoke^T product line is approved to:


Machine directive 2006/42/EG
 Electromagnetic Compatibility (EMC) 2004/108/EG
 Low Voltage Directive (LVD) 2006/95/EG

EC declaration of conformity in its entirety, see chapter 18.

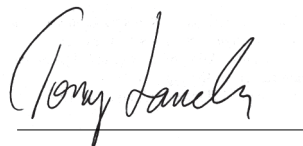
All electrical components are UL approved. The electrical motor is CSA-approved.








The CSA approval is solely applicable to the electrical motor.

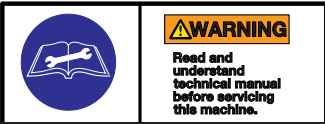







Tony Landh, CEO






Absolent
 Absolent AB
 Kartåsgatan 1
 531 40 Lidköping
 Sweden
 2009-12-28

3 LIST - WARNING SIGNS

	<p>Danger - Read the instructions Read and understand the user guide before working on the filter unit. The sign is positioned on the right-hand side of the filter unit.</p>
	<p>Warning - Dangerous voltage All electrical work must be carried out by qualified electricians. The sign is located next to the electrical cabinet.</p>
	<p>Warning - Tip risk The filter unit has a high centre of gravity and with that a risk of tipping. In order to avoid damage, see the lifting instructions under the heading "Transport/Set up/Installation". This sign is placed on the packaging and on the right-hand side of the filter unit.</p>
	<p>Danger - Heavy products The filter cassettes become heavier with use. Check the current weight of the filter cassette before handling. Weight details can be found on the filter cassette's rating plate and under the heading 11 "Handling the filter cassettes".</p>
	<p>Danger - Rotating parts Caution the filter unit/ and pump can be started by the timer, remote control or by a connected processing machine. The sign is positioned on the right-hand side of the filter unit.</p>
	<p>Warning - Risk of injury Caution the filter unit can contain fluids dangerous to health. Refer to the product sheet for the fluids in question before handling. The sign is positioned on the right hand side of the filter unit.</p>

GB

4. SAFETY INSTRUCTIONS

Type of warning	Warning text
 Mortal danger	<p>Warning - Dangerous voltage! The filter unit works with a high electrical voltage. The electrical installation must be performed by qualified electricians. Disconnect the power supply to the filter unit before it is opened and/or before starting work on the filter unit.</p>
 Skilled personnel	<p>Warning - Do not connect the filter unit to explosive gases! Do not connect the filter unit to processing machines that can bring about an explosion risk. Furthermore, the filter unit must not be connected to media that are highly inflammable without preventative measures being taken to stop the spread of the explosion or fire to the filter unit.</p> <p>Observe - Read and understand the user guide! Read and understand the user guide before working on the filter unit.</p> <p>Observe - Only skilled personnel! All work concerning transport, installation and maintenance must be performed by qualified personnel.</p>
 Risk for personal injuries	<p>Risk of crushing! Do not insert your hand into the filter unit when the fan is operational. Do not wear loosely hanging clothing in the vicinity of the fan when operational. These can be drawn into the fan or get caught.</p> <p>Risk of tripping! Always check the weight of the filter unit (technical data, heading 7) before lifting. When equipped with an integrated fan unit the centre of gravity of the filter unit is relatively high. When transporting the filter unit, secure well - an alternative can be to transport the filter unit horizontally.</p> <p>Heavy products! Filter cassettes are heavy. Check the current weight of the filter cassette before handling. Weight details can be found on the filter cassette's rating plate and under heading "Handling the filter cassettes". Lifting equipment or the like must be used during service and inspection work above the ground.</p> <p>Slipping hazard! Cleaned any oil spillage to avoid the risk of slipping.</p> <p>High noise levels! If the sound level at the control panel/workplace exceeds 75 dB(A) ear protection must be worn.</p> <p>Dangerous fluids! Use requisite personal safety equipment with all types of service work, as the filter unit can contain fluids dangerous to health. Refer to the product sheet for the fluids in question before handling. Use required personal safety equipment with all types of service work, as the filter unit can contain fluids dangerous to health. Refer to the product sheet for the fluids in question before handling.</p> <p>Caution when recirculating air back into the building! Note that in its standard design the filter unit does not separate gas molecules.</p>

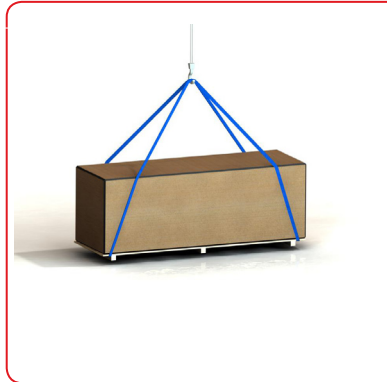
5 TRANSPORT / SET UP / INSTALLATION

5. General

Check that the unit is undamaged on arrival and when unpacking. Contact the carrier in the event of transport damage.

5.1 Transport and delivery

The filter unit is supplied on a wooden pallet covered in plastic. A•smoke^{80T} is supplied assembled. Larger filter units are assembled on-site. Larger filter units are supplied unassembled. The top section is then positioned on the bottom section and the filter parts are delivered separately. The packaging should remain on the filter unit up until installation in order to prevent damage. Secure the filter firmly, or transport the filter horizontally (A•smoke^{80T}). One of the following methods must be used when lifting:



5.1.1 Lifting the filter unit on a wooden pallet with an overhead crane.



5.1.2 Lifting the filter unit on a wooden pallet with a forklift truck.

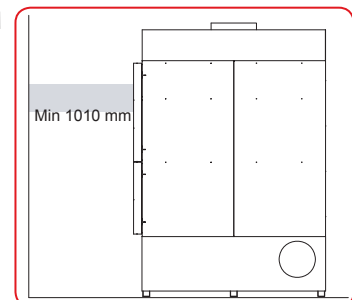


5.1.3 Lifting a vertical filter section using a forklift truck or overhead crane.

5.2 Set up

The filter unit must be set up horizontally on a flat and firm surface. The surface must be designed to support the weight of the filter unit. When setting up the filter unit and ducts, pipes, and electrical cables, ensure that the service doors can be opened freely (see figure 1) and that internal components such as the filter cassettes can be removed as required.

Figure 1



5.2.1 Lift to the vertical position A•smoke^{80T}

1. Ensure that the toggle fasteners on the inspection hatches are secured, before the filter unit is lifted to a vertical position.
2. When the filter is to be raised, fit the lifting device in the two lifting eyes, as shown in figure 1. Carefully lift the unit as shown in figures 2 and 3.
3. Position the filter unit in the correct position and bolt to the floor.
4. Open the hatch and check that the filter cassettes are secured. If they have become loose during transport, secure the filter unit and close the service hatches.
7. Connect the drainage.
8. Connect the suction pipe with control damper (the control damper is not required if the fan is equipped with frequency control). Using a branch pipe the recommended connection is a 30° elbow, as this gives a low pressure drop for the entire installation.
9. Connect the unit electrical (possible fan, pump and/or other accessories). Also see heading 8 "Electrical connection".



Figure 1



Figure 2



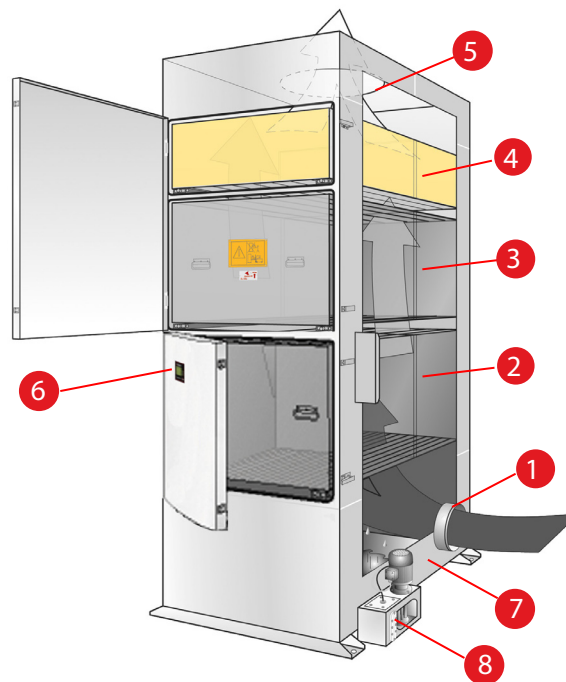
Figure 3

6 FUNCTION / DESIGN

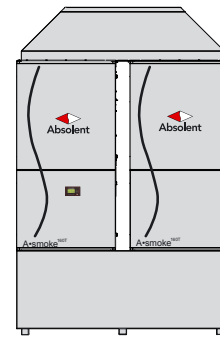
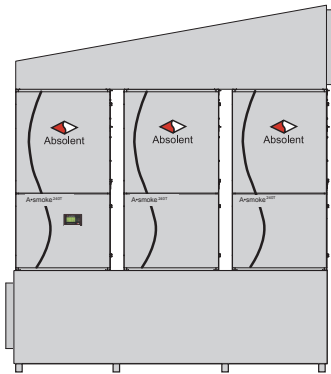
A•smoke

Contaminated air is sucked into the inlet (1) in the lower section of the filter unit and passes through: filter stage 1 (2), where the majority of the the oil particles are trapped. When filter stage 1 unit reaches a state of equilibrium, the oil drops that have been caught drain down into the bottom of the filter, which acts as a collection container and are pumped (8)(accessory) or drained away. The air passes through an additional Absolent filter (3), where remaining particles are filtered out and on via a HEPA filter (4) to the external fan. The air is now free from particles and can generally be returned directly to the premises.

1. Inlet, pipe connection
2. Filter stage 1
(Absolent filter)
3. Filter stage 2 (Absolent filter)
4. Hepa filter
5. Outlet
6. Electronic manometer
A•monitor
7. Return oil tank
8. Return oil pump (accessory)
9. Control cabinet
(not illustrated, accessory)



7 TECHNICAL DATA

A•smoke^{80T}A•smoke^{160T}A•smoke^{240T}A•smoke^{320T}

Technical data for A•smoke^{80TF}: view next page!

		A•smoke ^{80T}	A•smoke ^{160T}	A•smoke ^{240T}	A•smoke ^{320T}
DATA					
Height, centred outlet	[in]	113.4	131.9	-	-
Height, side outlet	[in]	113.4	131.9	153.7	153.7
Width, excl pump case (with pump case +3.1 in)	[in]	45	89.2	134.8	180.5
Depth	[in]	83.5	85.2	85.2	85.2
Standard connection inlet	[in]	ø15.8	ø24.8	ø31.5	ø35.4
Standard connection outlet	[in]	ø19.7	ø31.5	ø31.5	77.2x29.1
Standard connection return oil (with pump R3/4)	[in]	W 1 1/4	W 1 1/4	W 1 1/4	W 1 1/4
Weight dry filter (wet/dirty filter)	[lbs]	2866 (3307)	5512 (6614)	8267 (8818)	11023 (13228)
Filter cassettes					
Absolent filter	[pcs]	4	8	12	16
HEPA (H13)	[pcs]	2	4	6	8
Performance					
Max. air flow	[cfm]	4700	9400	14100	18800

²⁾ The sound level for filters with an external fan is stated in the user guide for the fan.

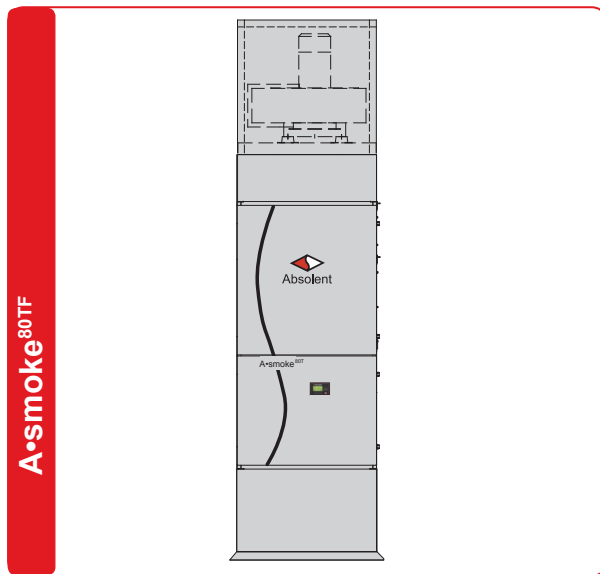
Electrical data:

Fan = fan's user guide, electrical motor plate

Pump and pump control = wiring diagram (in the control cabinet)

Diverse accessories = enclosed user instructions.

7 TECHNICAL DATA (cont.)



		A•smoke ^{80TF} (11 kW motor)	A•smoke ^{80TF} (15 kW motor)
DATA			
Height, centred outlet	[in]		3903
Height, side outlet	[in]		-
Width, excl pump case (with pump case + 3.1 in)	[in]	45.0	45.0
Depth	[in]	83.5	83.5
Standard connection inlet	[in]	ø15.7	ø15.7
Standard connection outlet	[in]	ø19.7	ø19.7
Standard connection return oil (with pump R3/4)	[in]	W 1 1/4	W 1 1/4
Weight dry filter (wet/dirty filter)	[lbs]		3197 (3748)
Available dim. ext. pressure drop	[Pa]		1500
Filter cassettes			
Absolent filter	[pcs]	4	4
HEPA (H13)	[pcs]	2	2
Performance			
Max. air flow	[cfm]	4700	4700
Sound level (1m in front of the filter unit)	[dB(A)]		74 ¹⁾

¹⁾ Sound absorption in premises=200m², Hemispherical sound propagation. For sound calculation concerning a specific room, contact us at Absolent or any of our dealers.

Electrical data:

Fan = fan's user guide, electrical motor plate

Pump and pump control = wiring diagram (in the control cabinet)

Diverse accessories = enclosed user instructions.

8 ELECTRICAL CONNECTION



Highly dangerous voltage!

All electrical work must be carried out by qualified electricians.

8.1 General

For the warranty to apply, a qualified person must carry out all the electrical wiring in accordance with local regulations.

A•smoke central filter units have no electrical standard equipment, however the unit is usually equipped with a pump to evacuate the oil. The fan is normally fitted freestanding. It is possible to mount the fan in direct connection to or on the unit. Other common accessories, see heading 13. Instructions for the connection of accessories are not included in this user guide, but are supplied separately with each accessory. In order for the warranty to apply, all electrical connections must be made by a qualified electrician and in accordance with applicable directives.

8.2 Instructions for the connection of accessories

- **Return oil pump with level sensor and control cabinet:** The wiring diagram can be found in the control cabinet.
- **Fan:** The user guide accompanying the fan from the fan supply.
- **Frequency converter:** User guide provided by the supplier. A separate instruction is included, which describes how the frequency inverter must be connected with the pressure sensor if flow regulation is required.
- **Pressure sensor for regulation:** User guide provided with the pressure sensor.
- **Spray system:** Separate instruction supplied with the filter unit.
- **Other accessories:** User guide provided by the supplier.

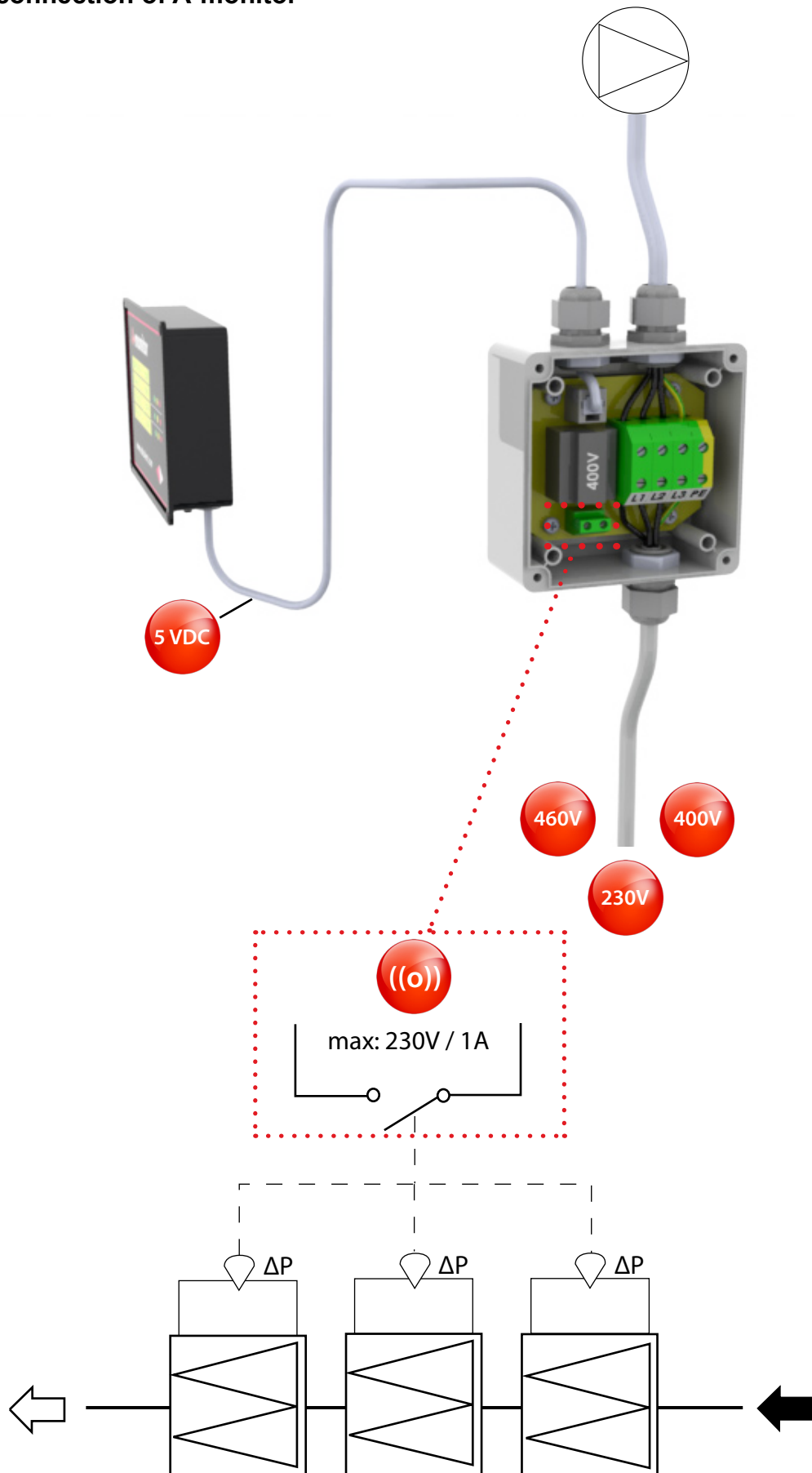
8.3 Level sensor

The level sensor is located next to the pump in the external oil container. The sensor has a float with following function:

1. Lower float in its lower position = pump switched off.
2. Lower float in its upper position = pump starts.
3. Upper float in its upper position = alarm (indication connected by the customer).

8 ELECTRICAL CONNECTION (cont.)

8.4 Electrical connection of A•monitor



9 TO BE CHECKED BEFORE THE FIRST START OF THE FILTER UNIT



Risk of trapping injury!

Do not insert your hand into the filter unit when the fan is running. Do not wear loosely hanging clothing near the fan when operational. These can be sucked into the fan or get caught.

1. Check that the filter cassettes are properly secured.

Open the door and check that the filter cassettes are properly secured, i.e. that the sealing is compressed to approx. 3 mm. How to secure, see headings 12.2 resp. 12.3.

2. The fan's direction of rotation

Make sure that the fan impeller rotates in the proper direction (counter-clockwise viewed from the motor side). If you are unable to see the motor while the impeller is rotating, start the fan, read the pressure drop across the filters from the pressure gauge, stop the fan, transpose two phase leads, restart the fan and read the pressure drop again. The connection that gave the highest pressure drop is the correct one.

3. Air flow

The air flow must be checked, so that the value does not exceed the design level for the installation (refer to the quote or unless otherwise stated the nominal flow under heading "Technical data"). The air flow can be adjusted with the damper or frequency converter, if fitted. If it is difficult to reach the required flow, check the direction of rotation of the fan motor according to section 2 above. If the unit is run with a too high flow, there is a large risk that the life span of the filter cassettes will be shortened.

4. Pressure drop over the filter cassettes

Read the A•monitor and note down the pressure drop over the different filter stages (heading 11). These values can then be used as a basic value to assess the pressure increase /life span of the different filter cassettes.

5. Return oil pump

Check that the pump starts, preferably by lifting the floats on the level sensor (see 8.3).

6. Spray system (if installed)

If the filter unit is equipped with a spray system its function must be checked as this has a large effect on the life span of the filter cassettes.

The function of the spray system and fault tracing are described in the separate user guide.

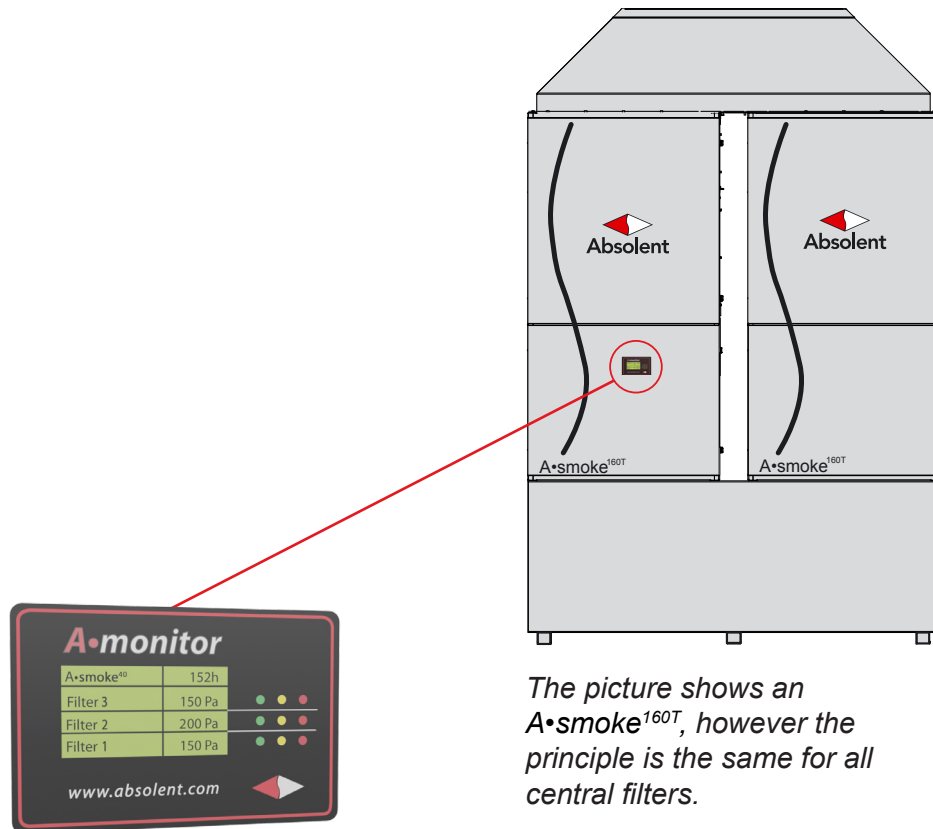
7. Frequency converter (if installed)

If the filter unit is equipped with a frequency converter, you find a protocol of the different settings and a description how to handle the frequency converter attached.

10 CARE / MAINTENANCE

10.1 General

Preventive maintenance and regular service extend the life span and ensure that the filter unit maintains its performance. Besides, you maintain a high cleaning efficiency in the industrial environment. To facilitate inspection of the filter cassette status, Absolent supplies the A•smoke^T filter units with an electronic manometer as a standard. The electronic manometer is positioned on the front of the filter unit as shown below:



For more information on the electronic manometer, see heading 11.

10.2 Service chart

Action	Monthly	Six monthly	Annually
Filter cassettes Establish filter cassette status by reading the electronic pressure gauge	X¹⁾		
Bottom section / Drainage Check that the return oil pipe is not blocked	X²⁾	X²⁾	
Fan Check that there is no abnormal noise or vibration			X

¹⁾ In order to get to know your new installation, the filter cassettes should be checked once a month during the first six months the filter unit is in use. The service interval is then adapted according to the installation in question. However, no longer than six months between inspections. Note that when the yellow LED lights, the inspection interval must be increased as the pressure drop now increases quicker.

²⁾ In order to get to know your new installation, the bottom section and drainage should be checked once a month during the first six months the filter unit is in use. The service interval is then adapted according to the installation in question.

11 ELEKTRONIC PRESSURE MONITOR

11.1 Functional description

An electronic pressure gauge A•monitor is supplied as standard along with all A•smoke filter units. The pressure monitor is delivered factory preset and contains the following features:

OPTICAL DISPLAY OVER EACH FILTER STAGE

A The present pressure drop over each filter stage is monitored (See 11.2.)

LED INDICATION

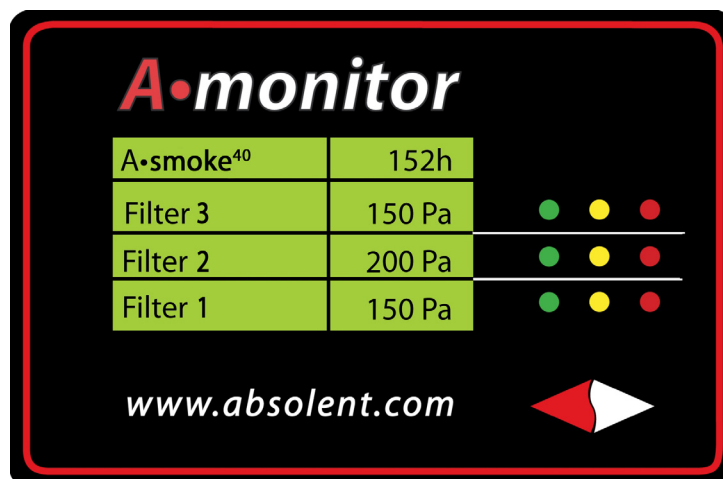
B A green LED lamp is lit as long as the filter cassette is working within the preset pressure range. When the yellow lamp is lit, call your service contact to replace the filter stage. When the red LED lamp is lit, the pressure drop is too high for the filter unit and it gives a reduced air flow.

HOUR COUNTER DEVICE

C An hour-counter device is also included in our standard equipment. It measures and monitors the operation time in hours for the filter unit.

ALARM

D On the transformer card, there is an alarm output that can be used for external alarms (maximum 1A). If any of the filter stages reaches alarm level (red LED), the alarm output closes, see 8.5)



11.2 Pressure settings

Type		Green [Pa]	Yellow [Pa]	Red [Pa]
A•smoke ^T	Filter 3 (HEPA)	0-800	800-1000	> 1000
	Filter 2 (S10B3)	0-2300	2300-2500	> 2500
	Filter 1 (S1)	0-2300	2300-2500	> 2500

PLEASE NOTE!

If a filter stage is used even though the red LED-lamp is lit, the filter unit gives a reduced air volume. Note however, that the filter unit will not be damaged when operated with a clogged filter stage. Handling during service is described under "Changing the filter".

12 HANDLING THE FILTER CASSETTES



Warning!

Use requisite personal protection equipment when performing service work on the filter unit.

Lifts or the like must be used when carrying out service work above the ground.

12.1 Weight of the filter cassettes

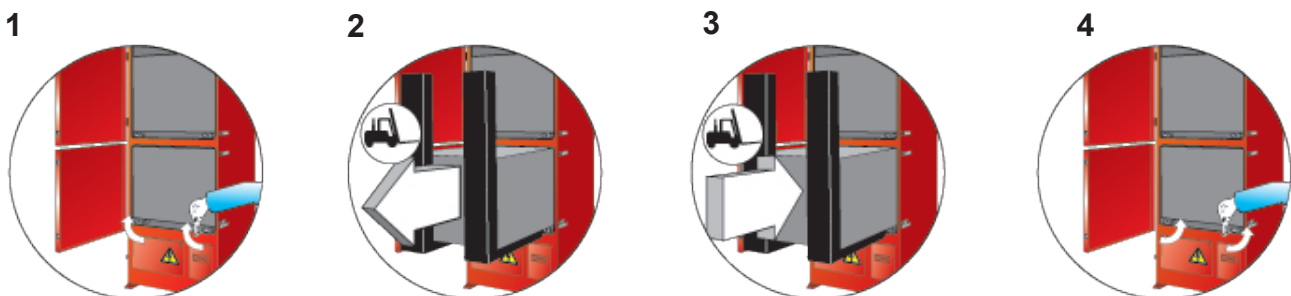
Filter cassettes are heavy, especially when filled with fluid after a period of use. Below is a table of weight for the different filter cassettes available. The type designation of the supplied filter cassette can be found on the rating plate located on the front of the filter cassette.

Filter type	Filter cassette type	Weight new cassette (dry)	Weight fluid filled cassette
A•smoke ^T	Stage 3: HEPA TRSA 1D-N 1000x914	60 lbs	82 lbs
	Stage 2: S10B3/914 alt S10/914 resp. M44 (Heat Treat version)	342 lbs	463 lbs
	Stage 1: S1/914 resp. D94 (Heat Treat version)	342 lbs	463 lbs

12.2 Instruction for replacing the filter cassettes

1. Read the electronic manometer A•monitor and note down the pressure drop over the different filter stages when the filter unit is in operation. The filter cassettes whose LEDs light in yellow or red have to be replaced.
2. Shut down the fan.
3. Disconnect the filter unit from electricity.
4. Open the service door.
5. Loosen the cassette by releasing the two bolts (fig. 1).
- 6.1 Filter stage 1 and 2
Withdraw the filter cassette with the aid of the Absolent filter sledge (accessory) or a pallet and forklift, view fig. 2. Be carefull, as the filter cassette is very heavy and possibly slippery with oil!
- 6.2 Filter stage 3 (HEPA-filter)
Withdraw the filter cassette.
7. Lift the new filter cassette up with the sealing strip upward and check that the sealing strip is undamaged.
8. Push it all the way into the filter housing (view fig. 3).
9. Secure the filter cassette by tightening the two bolts (fig. 4). The filter cassette is to be tightened until the sealing strip is compressed to a thickness of about 0.12 inches / 3 mm.
10. Connect the filter unit to electricity.
11. Start the fan and check the pressure drop reading for all three filter cassettes. The pressure gauges should now be in the green sector.

NOTE! When the supply air contains a large number of chips the drainage hole in the bottom section should be checked frequently to avoid this being clogged.



12 HANDLING THE FILTER CASSETTES (cont.)

12.3 Worn out filter cassettes

When the filter cassette is worn out it has to be taken care of in an environmental-friendly way. The sheet metal casing and the aluminum separators can be recycled.

Clean filtermedia can be sent to disposal facilities, but when it contains oil and particles from the process, local regulations for disposal or incineration need to be followed.

If the oil is washed from the cassette, it can usually be sent for landfill.

13 ACCESSORIES

A variety of accessories are available for the Absolent type A•smoke oil mist and oil smoke filter unit. Instructions for installing these are provided on the next pages. However keep in mind that these products must be ordered separately from us if they are to be included in the delivery.

13.1 LIQUID TRAP

Liquid Trap

The liquid trap is designed for connection to the return oil pipe of the filter unit. The outlet of the liquid trap should not discharge in such a way that the liquid can damage adjacent building components. Correct installation of the liquid trap is very important due to the normal sub-atmospheric pressure inside the filter unit. If you use the liquid trap, the filter unit is to be placed on an extension frame (13.4) or a mezzanine.



13.2 SPRAY SYSTEM

If the contamination is "too dry" or contains liquid particles with too high viscosity (gooey), the self-cleaning capacity of the filter degrades and the life cycle decreases drastically. To increase the liquid content and / or decrease the viscosity, little drops of liquid are added to the air through a nozzle. The added liquid has to be able to dissolve the contamination. For emulsions, use water. The nozzle is mounted onto the inlet channel. The spray system is controlled by a time relay with adjustable pause and spray time. For further information about installation, safety and service, see the user's manual for the spray system.



13.3 FREQUENCY CONVERTER

The A•smoke filter unit can be equipped with a frequency converter and a pressure sensor. Please contact Absolent / your Absolent representative for more information.



13.4 PREFILTER FOR SEVERE DIRT

For severe dirt, we supply a flat prefilter which is to be mounted under the first filter stage of the A•smoke filter unit. Please contact Absolent / your Absolent representative for more information.



14 FAULT TRACING

Malfunction	Possible cause	Action
Low capacity (air flow)	The fan rotates in the wrong direction.	Check the fan's direction of rotation (heading 9.2) - (only skilled personnel) .
	With speed (rpm) regulation: The fan speed (rpm) is set too low.	Check the fan speed (rpm) - (only skilled personnel) .
	Too high pressure drop over one or more filter cassettes.	Check the pressure drop. If the yellow or red LED lamp is lit for one of the filter stages, the cassette should be replaced.
	High pressure drop in the duct system.	Check and possibly change the duct system
	Adjustable damper is closed or incorrectly adjusted.	Check and possibly adjust the damper on the suction pipe between the machine and filter.
	The ducts are not sealed or dirty.	Check that there is no leakage from the suction pipe between the machine and filter. Check that the ducts don't contain dirt.
Abnormally short replacement interval for the HEPA filter:	An incorrectly positioned or damaged sealing strip can result in leakage past filter stages 1, 2. Resulting in unfiltered air reaching the HEPA filter.	Check that filter stages 1, 2 are fitted with the seal upward. Also check that the sealing strip is undamaged.
	Cassettes that are not secured can result in air leakage past the filter cassettes. Unfiltered air will then reached the HEPA filter.	Check that filter stages 1, 2 are secured against the sealing frame correctly (heading 13.2).
	The filter cassette in stage 1 and/ or 2 are not optimised for the application in question.	Check with Absolent that the correct filter cassette is being used in filter stage 1, 2 for the application in question.
Abnormally short service interval for the prefilter:	The filter cassette in stage 1 and/ or 2 are not optimised for the application in question.	Check with Absolent that the correct field cassette is being used in filter stage 1 and/or 2 for the application in question.
	The filter cassettes have become clogged on account of high viscosity in the oil mist, which gives insufficient drainage.	If emulsions are used, filter clogging may be due to the filter running when production has stopped, which dries out the filter cassette (water evaporates). Consequently, switch off the filter unit when not in use. If the fluid in the process has a high viscosity, it is necessary to apply fluid with a spray system (heading 13.2).
	The filter cassettes have become clogged.	Check that chips have not been drawn down with the air into the filter unit. The problem with chips can be solved by calibrating the air flow or coarse filtering before the filter unit. Also check that sticky particles have not clogged filter stage no. 1 (for example, in foundry applications). Contact Absolent for appropriate measures.

15 ABSOLENT WARRANTIES

Absolent always take full responsibility that the delivered product fulfils the function and life time guaranteed when purchased. This warranty is however only valid if the product is in its original configuration and only when original spare parts have been used when servicing or repairing the filter unit.

Some examples on why original parts are so important are shown below:

1. FAN MOTOR

In order to cope with the special assembly configuration in an Absolent unit the original motor is supplied with special bearings and a bearing locking device.

Using the "wrong" type of motor will increase the risk of breakdown or failure.

2. FILTER CASSETTES

The Absolent oil mist filter depends on the multi-stage filtration technology. In order to reach the optimum filtration efficiency and the longest possible life time, the filter cassettes have been carefully balanced against each other. If one or several of these cassettes are replaced by a filter cassette this balance is destroyed and the consequence is decreased collecting efficiency and shortened life time for all filter stages.

16 SPARE PARTS

Absolent has a complete range of spare parts, which ensure the operation of installations.

Please supply the filter unit's serial number and the part number in order to guarantee delivery of the correct spare parts. These can be found on the machine plate, which is located on the right-hand side of the unit. See figure 1.

When ordering filter cassettes, the above details should be supplemented with the filter cassette's material code. This can be read on the filter cassette's rating plate by "type". See figure 2.

Absolent AB Kartåsgatan 1 SE-53142 Lidköping, Sweden Phone +46 510484000, Fax +46 510484029		
Art. nr. Part No.		
Beskrivning Description Bezeichnung		
Seriennr. Serial no. Serienr.		CE
Spänning Rated Voltage Nennspannung		(V)
Frekvens Frequency Frequenz		(Hz)
Märksström Rated Current Nennstrom		(A)
Effekt Rated output load Nennleistung		(kW)
Cos φ		(-)

Fig. 1

Absolent AB		Airflow
type.	S3B1/595	↑
art.no.	92110603	

Fig. 2

17 TECHNICAL SUPPORT

Absolent has a complete range of spare parts, which give full service, and ensure the operation of installations. In the event of questions concerning maintenance and spare parts please contact:

Head Office
Absolent AB
Kartåsgatan 1
SE-531 40 Lidköping
Sweden
Tel +46 (0)510 484000
Fax +46 (0)510 484029
E-mail: info@absolent.se
www.absolent.com

Dealer:

--

18 EC DECLARATION OF CONFORMITY

Manufacturer:

Absolent AB
Kartåsgatan 1
SE-531 40 Lidköping
Sweden
Phone: +46 (0)510-48 40 00

Authorized to compile technical documentation

Jan Berntsson
Kartåsgatan 1
SE-531 40 Lidköping
Sweden
Phone: +46 (0)510-48 40 00

We, Absolent AB, declare under our sole responsibility that the product:

A•smoke^T

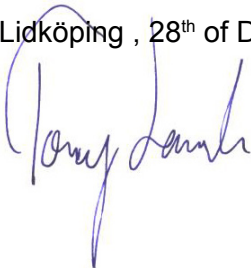
to which this declaration relates, is in conformity with the following standard(s) or other normative document(s)

Machinery directive 2006/42/EG

Electromagnetic Compatibility (EMC)2004/108/EG

Low Voltage Directive (LVD) 2006/95/EG

Lidköping , 28th of December 2009



Tony Landh