



Translation of the
original user manual

Albaflow 1000-2300- 5700-10000

Negative pressure machine



PREFACE

Thank you for purchasing an AlbaFlow 1000/2300/5700/10000. You now own a machine produced using the latest technology, when used correctly and given the proper maintenance the machine will have a long, fault free lifespan.

The AlbaFlow negative pressure machine can be used to control the airflow in enclosed working areas. The purpose of this manual is to familiarize yourself with the operation, to instruct you on safe working practices, and to provide periodic maintenance guidelines. The user manual has been compiled for everyone involved in the machine's commissioning, operation and maintenance.

These people must:

- have the knowledge and qualifications needed to perform their tasks.
- have read and understood this user manual.
- comply with all stipulated safety instructions.
- if necessary, must possess sufficient, appropriate and good quality tools.

This user manual, the type plate and the safety stickers placed on the machine feature important safety-related information and are thus an integral part of the delivery. Store this user manual carefully and also supply it if the machine is sold to a third party. If damaged or lost, they must be re-applied or supplied once again. These items are available from Demto or your dealer.

➤ ***Make sure that you are familiar with the contents of this user manual before you operate the machine, so you can fully and safely use all of the machine's features!***

The delivered AlbaFlow negative pressure unit has already been assembled and tested, and once commissioned ready to use. Delivery includes the machine this user manual, electrical diagram(s).

Upon delivery, immediately check whether the machine is complete and undamaged. Immediately contact your supplier if components are missing or if damage has occurred during transport.

This manual is for the AlbaFlow 1000, 2300, 5700 and 10000 series.

Illustrations may differ from the actual product slightly.



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EC DECLARATION OF CONFORMITY

In accordance with appendix IIA of the machinery directive 2006/42/EC

We, Demto B.V.
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declare entirely under our own responsibility that the product:

Brand: Demto
Machine: ALBAFlow Negative Pressure Unit
Type: 1000/2300/5700/10000

to which this declaration applies, meet all stipulations in the following directives:

Machinery Directive 2006/42/EC
Low Voltage Directive 2006/95/EC
EMC Directive 2014/30/EU

and in conformity with the following harmonized standards and/or other normative documents:

EN ISO 12100:2010
EN 60204-1:2018
NEN-EN-1822-1:2019

Drawn up in

Town: Raamsdonksveer
Date: February 20, 2026

Demto B.V.
S. Meester - Chief Executive officer

A handwritten signature in blue ink, consisting of a large, stylized 'S' followed by a horizontal line extending to the right.

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1. General description

1. GENERAL DESCRIPTION

Thank you for purchasing an AlbaFlow 1000/2300/5700/10000. You now own a machine produced using the latest technology, when used correctly and given the proper maintenance the machine will have a long, fault free lifespan.

1.1 Signal words

The signal words danger, warning, caution, and notice are used as follows in this operation and maintenance manual:

▲ DANGER!

Indicates a hazardous situation which, if not avoided, will result in death or serious injury.

▲ WARNING!

Indicates a hazardous situation which, if not avoided, could result in death or serious injury.

▲ CAUTION!

Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTE

The signal word NOTE is used to address practices related to possible property damage but not related to personal injury.

1.2 Safety Instructions

Read these safety and operating instructions and specifically all safety instructions before using the AlbaFlow 1000/2300/5700/10000 negative pressure unit.

Follow all instructions in this operation (and maintenance) manual.

Anyone responsible for transporting, installing or removing, operating, maintaining, repairing, storing or disposing of the AlbaFlow 1000/2300/5700/10000 negative pressure unit must have read and understood these safety and operating instructions.

This user manual contains instructions for operation and maintenance for the AlbaFlow 1000/2300/5700/10000 negative pressure unit. Keep it for the entire product life-span. Ensure, if applicable, that any received amendment is incorporated in the user manual. Always supply this user manual if ever you lend, rent out or sell the AlbaFlow negative pressure unit.

▲ WARNING!

Almost all accidents are caused by;
Loss of concentration, inadvertence, negligence or misjudgements
Work calmly and concentrated.

▲ NOTE!

Under all circumstances you must also follow local safety regulations.

▲ WARNING!

The instructions described in this user manual refer to the AlbaFlow 1000/2300/5700/100000 negative pressure machine. Please also be aware of the requirements for Personal Protective Equipment in your specific work situation!

All persons dealing with assembly, commissioning, operation, maintenance and repair must:

- have the level of knowledge and qualifications.
- have read and understood this user manual
- comply with all safety instructions.

In order to guarantee safety when using the AlbaFlow negative pressure unit it is imperative to observe the following:

- The negative pressure units are not suitable for filtering condensing, corrosive, flammable and/or explosive air.
- Maintenance, including removal and replacement of the filter, may only be performed by authorized persons wearing the appropriate personal protective equipment.
- During repair and maintenance work the appliance must always be completely disconnected from the mains.
- The protective and safeguarding devices must be kept in impeccable condition and maintained.

In order to guarantee safety, modifications to the device are not permitted. To prevent damage the device must never be operated without the built-in filter.

Without the pre-filter, the main filter is directly accessible. Main filters must NOT be touched!

The changing the main filter should only be done by a dealer or an authorized person.

The machine comes with a transit plate to close the front, with the (contaminated) filters, during transportation. If the machine is used, this plate may only be removed under controlled circumstances.

1.3 General description

This negative pressure unit has been developed using the name AlbaFlow negative pressure unit.

The AlbaFlow negative pressure unit has been developed for indoor use. It is easily transportable and the stand-alone unit has been produced to create a negative air pressure, refreshing of air and filtering out specific dust particles of a closed space (containment).

1.4 Intended Use

The stand-alone unit has been produced to create a negative air pressure, refreshing of air and filtering out specific dust particles of a closed space.

The capacity of the AlbaFlow negative pressure unit(s) must comply with the desired airflow and **the filter used must be chosen according to the size and nature of the particles the must be filtered out.**

⚠ CAUTION!

The AlbaFlow negative pressure unit is NOT suitable to filter out flammable gases or substances.

The machine is to be used only for the purpose for which it is intended.

Any use other than that described above excludes DEMTO from any liability!

⚠ WARNING!

The machine has only been tested with the original HEPA-Filters (Class H13).

In order to ensure the operational safety of the machine, only original Demto filters should be used. If this is not observed, the operational safety of the machine cannot be guaranteed. This may result due to overloading of filter (leakage loss, crack in filter, etc.) accidental release of hazardous substances that cannot be controlled into the environment end up in the environment.

⚠ CAUTION!

Always consult and work according to national and local law, regulations and stipulations before commencing work where the Albaflow negative pressure unit will be used.

Environmental Conditions:

- The machine must be placed on a paved vibration-free floor/foundation.
- if the machine is equipped with castor wheels; apply the brake to the wheels.
- The machine should only be used in covered areas.
- The machine must be kept dry.
- Suitable temperature range -20°C to +50°C

1.5 Warranty and conditions

- The machine is subject to a guarantee period of 12 months after delivery, in accordance with the General Terms and Conditions of Delivery. <https://www.demto.com/en/terms-and-conditions>.
- These conditions stipulate that, within this period, only equipment and manufacturing errors will be repaired

free of charge, AFTER BEING EVALUATED BY Demto. Transport and or travel costs must be paid by the customer.

- The prefilters and HEPA filters used in the AlbaFlow negative pressure units are consumables. These filters are not covered by the warranty conditions.

1.6 Hazards

⚠ DANGER!

Touching of the conductors of a damaged power cable connected to the mains can lead to injury and even death.

Do not operate the unit with a damaged power cable

Check the power cable for wear and potential damage regularly.

Albaflow negative pressure units can only be used on power outlets protected by a residual-current device (RCD) or residual-current circuit breaker (RCCB).

Damaged power cables must be replaced by Demto or a qualified electrician.

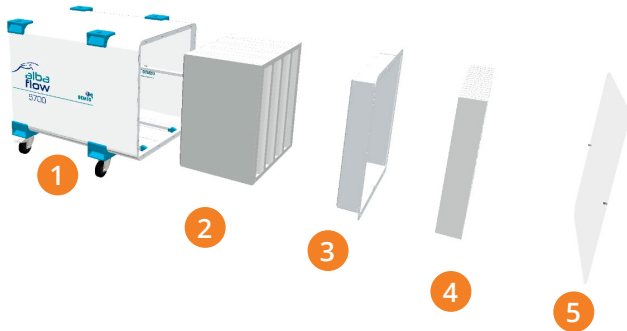
⚠ DANGER!

Main and pre-filters must never be touched. The main- and prefilters must only be removed or replaced by an Authorized Dealer or Authorized personnel.

2. MACHINE OVERVIEW

2.1 General Description

This equipment can be used in work areas where the air flow needs to be controlled. This is the case with activities where dangerous or obstructive dust particles are released, such as with asbestos, chromium-6 and ceramic fibers. Main filter class dependant on particles to remove. Using negative pressure machines, a negative pressure can be created within the shielded work area that prevents polluted air from escaping from the work area. In addition, the concentration of particles in the air can be reduced when the polluted air is filtered through a (HEPA)



- 1 - Albaflow main enclosure
- 2 - Main filter
- 3 - Pre-filter bracket
- 4 - Pre-filter
- 5 - Transit plate

2.2 Scope of delivery

The Scope of the delivery of the AlbaFlow 1000/2300/5700/10000 negative pressure unit consists of:

- The Machine
- The user manual
- Electrical cable
- Main- and pre-filter

Upon taking delivery of the AlbaFlow negative pressure unit, immediately check if the delivery is complete and that the machine is not damaged.

Contact your supplier immediately when parts are missing or the unit is damaged.

2.3 Operation

Each Albaflow negative pressure unit is equipped with a custom display featuring 4 buttons.



- ON/OFF button - switches ON and OFF
- MENU - toggles through current state and serialnumbers
- Big fan - (Plus) - increases flow/power with 5%
- Small fan - (Minus) - decreases flow/power with 5%

Holding the MENU - button for 5 seconds gives acces to the service menu, only accesible by the manufacturer and dealer.

When the Albaflow starts up, the Albaflow-logo is shown on the display.

After 4 seconds the display shows the date for the next planned maintenance.

After 4 seconds the status of the filter (top beam) and the applied percentage of power (bottom beam) are displayed.

When less than 25% of power is applied the filter status will not be measured due to the differential being out of scope. The filter indicator will move left and right.



When 25% of power or more is applied, the state of the filter is displayed in the top.



Pressing the menu-button wil cycle the information screens:



Overview of operational hours, machine serial number, date of the next planned service date.



Software version, hardware version, Albaflow Type



Main filter change notification

3. TECHNICAL SPECIFICATIONS

Albaflow	1000	2300	5700	10000
Capacity	1000m3/hr	2300m3/hr	5700 m3/hr	10000 m3/hr
Voltage	230v	230v	230v	230v
Current Draw	1,3 A	2,5 A	5 A	10A
Power Connection	EURO-plug 16A 230V	EURO-plug 16A 230V	EURO-plug 16A 230V	EURO-plug 16A 230V
Manometer	Electronic	Electronic	Electronic	Electronic
Weight without filter(s)	14 kg	26 kg	42 kg	71 kg
Dimensions LxWxH	397x625x575mm	428x873x625mm	712x865x945mm	712x1173x1195mm
Sound Level	60,9 dB	68,5 dB	69,5 dB	71,5 dB
Exhaust size	Back-side	Back-side	Back-side	Back-side
Spigot side	255mm	355mm	455mm	2x455mm
Pre-filter class				
Pre-filter Size (mm)	290x290x45	375x375x95	595x595x95	910x610x47 (2x)
Standard main filter HEPA Class	H13	H13	H13	H13
Main Filter size (mm)	305x305x292	380x380x400	610x610x400	915x610x400
Change main filter at	Indication on display	Indication on display	Indication on display	Indication on display
IP Classification	IP52	IP52	IP52	IP52

4. TRANSPORT AND STORAGE

4.1 Transport

The Albaflow 1000/2300/5700/10000 negative pressure units are relatively light. The AlbaFlow 1000 is equipped with small legs that it can stand on. The AlbaFlow 2300, 5700 and 10000 are equipped with castor wheels and brakes.

All AlbaFlow negative pressure units are equipped with handles, by which they can be picked up and handled.

Always secure the AlbaFlow negative pressure unit when it is being transported.

Note!

When the Albaflow negative pressure unit is transported when contaminated condition;
Make sure the transit plate is taped to the machine creating an airtight seal.
Always comply with local rules and regulations when transporting hazardous material.

4.2 Storage

When storing the AlbaFlow negative pressure unit, you must;

- Clean the unit
- Perform maintenance
- Have the transit plate installed
- Store the unit in a dry, ventilated and frost-free space. (0-50 degrees celcius)

▲ NOTE!

Previously attached tape can come loose due to influence of (changing of) temperatures.

5. COMMISIONING

5.1 Setting up

Before positioning the AlbaFlow negative pressure unit make sure the power cable is not connected to the mains.

Position the AlbaFlow negative pressure unit outside of the contaminated area. At no time can the unit be placed inside the contaminated area.

In case of doubt, first contact the responsible qualified person on site.

Attach the intake side of the AlbaFlow negative pressure unit to the contaminated area with an airtight seal. This is the side where the transfer plate is attached in front of the pre-filter. The airtight connection must be durable since the forces created by the negative pressure unit(s) can put considerable tension on the connection from the AlbaFlow to the contaminated area.

The exhaust side of the AlbaFlow can emit sound. This can be reduced by attaching an venting hose .

- 1 Check the machines is positioned and installed correctly.
- 2 Enter the contaminated area with the required protective gear
- 3 attach the edges of the new opening to the AlbaFlow negative pressure unit with tape.
- 4 Check the venting hose is connected properly and not causing any interference.
- 5 Check the connection of the AlbaFlow negative pressure unit to the contaminated area.
- 6 Check the control unit on the AlbaFlow to see if the unit is off.
- 7 Connect the power cable to a mains outlet.
- 8 Start the AlbaFlow negative pressure unit
- 9 Check the unit is operating
- 10 Remove the transit plate
- 11 Check the pre-filter is installed correctly
- 12 Check if the settings of the machine are correct and that it is operating at the desired negative pressure.

▲ NOTE!

Check that the air passages for the control unit are not blocked.

When the desired negative pressure is not reached, first check the construction van de contaminated zone and lock. Also check the volumetric flow is adequate. The total number of negative pressure units can be increased until the desired negative pressure is reached and the desired volumetric flow is reached.

5.2 Usage

The negative pressure in the contaminated area can be monitored during usage of the AlbaFlow negative pressure unit(s).

The negative pressure in the contaminated area needs to stay below the threshold determined by local authorities

When the negative pressure differential gets smaller then what the starting value was, the pre-filter can be clogged and in need of replacement.

If the negative pressure differential still is too small after replacement of the pre-filter, The main (HEPA) filter needs to be replaced.

▲ WARNING!

The following instructions are in relation to stopping the AlbaFlow negative pressure unit.

Stopping the negative pressure unit can only be done with consent of the local authorities. Additional instructions of local authorities may be issued and must be adhered to. Usage of equipment for personal protection is mandatory.

Persons in the contaminated area must comply with local rules and regulations.

- 1 Remove the contaminated pre-filter. Treat the removed filter as contaminated waste
- 2 Remove all visible dirt and dust from the inside of the AlbaFlow negative pressure unit with a special vacuum cleaner and/or cleaning cloth.
- 3 Do not re-install a new pre-filter.
- 4 Install the transit plate on the negative pressure unit.
- 5 Tape up all seams airtight.
- 6 Switch the negative pressure unit off.
- 7 Remove the power cable.

6. MAINTENANCE

6.1 General

▲ NOTE!

Regular preventative maintenance reduces the risk of malfunctions during operation of the AlbaFlow negative pressure unit(s).

Observed damage(s) and deviations from the normal condition must be repaired before operating the AlbaFlow negative pressure unit before it will be used to prevent greater damages.

Perform daily checks of the presence of the seal for the fan and that it is not damaged.

Perform daily checks of the power cable(s) to make sure they are not damaged or placed in such a way that the feed of energy to the negative pressure unit can be interrupted. Keep the AlbaFlow negative pressure clean and dry. By using a clean machine you eliminate any doubts over the unit being contaminated.

Regularly replace the pre-filter. The interval between replacements of the pre-filter is determined by the negative pressure differential and visual inspections.

Regularly check the enclosure of the AlbaFlow negative pressure unit for wear and cracks etc.

6.2 Schedule for Inspection and Maintenance

The AlbaFlow negative pressure unit must be inspected and certified on a yearly basis.

Local inspection regulations can supersede the yearly inspection mentioned above.

Contact your supplier or Demto for this.

6.3 Replacement of the pre-filter

▲ NOTE!

A used pre-filter is contaminated with hazardous material. It must be considered as hazardous waste and treated as such.

The Pre-filter can only be replaced when the AlbaFlow negative pressure unit is still attached to the contaminated area at the installed location.

- 1 Confirm the machine is installed at a suitable area.
- 2 Confirm the machine is still switched on and is running.
- 3 Remove the transit plate should it be present.
- 4 Remove the contaminated pre-filter, consider this as hazardous waste

- 5 Remove all visible dirt and dust from the inside of the Albaflow negative pressure unit with a special vacuum cleaner and/or cleaning cloth.

- 6 Install the replacement pre-filter. make sure the seams of the folds run vertically.

- 7 Tape the seams between the pre-filter and the enclosure over with suitable tape.

NOTE !

Keep air passage(s) for the control unit clear of tape!



- 8 The Albaflow negative pressure unit can now be used again.

7. MALFUNCTIONS

The Fan(s) is/are not spinning

- 1 Check that the power cable is connected properly and that it is not damaged. Check there is power on the power outlet.
- 2 Check the machine is switched on
- 3 Should the AlbaFlow negative pressure unit have a technical malfunction, contact your supplier.

The fan(s) is/are spinning but the desired negative pressure is not being obtained.

- 1 The transit-plate is still closing of the filter(s). Remove the transit-plate .
- 2 The Pre-filter is clogged or blocked. Replace the Pre-filter
- 3 The main (HEPA) filter is clogged/blocked. Have the Main (HEPA) filter replaced by the supplier or a authorized and qualified technician.

8. END OF LIFE

Electrical appliances , accessories and packaging must be recycled when they are disposed of or at the end of their life.

Do not dispose of electrical appliances in household waste.

According to European directive 2002/96/EG the electrical appliances that are disposed of, must be disposed of in such a way that they can be recycled responsibly.

After a lifetime of usage, when the AlbaFlow negative pressure unit is at its mechanical end, an authorized person must remove the main(HEPA) filter and clean the machine. Discuss the current, local rules and regulations regarding the appropriate disposal and recycling of the machine(s) that will be disposed of.



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