

CE - Manual



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CE Unit is suitable for material transport. The transported gas may be up to 80°C.

The unit may not be used in environments where:

- The temperature exceeds 40°C
- The temperature is below -20°C
- The atmosphere is explosive

The unit must not be modified or otherwise altered.

Special features that can be used for other applications can be quoted on request.

Study this manual carefully before assembly and heed all instructions, particularly those related to safety. This manual is no repair manual and shall not be used as such.

Warranty is not valid, if the instructions are not adhered. Consequently, it can also result in personal injury or equipment damage.

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1 SAFETY INSTRUCTIONS

1.1 Electrics

- Only authorized personnel should perform the installation of electrical equipment.
- Ensure that the safety switch is always disconnected and locked when working on the unit, and/or that the plug is removed.
- The local electrical safety regulations must of course be followed.

1.2 Risk of crushing

- When replacing the bag, removing the container or changing filter, the security switch should always be disconnected and locked.
- The unit must be anchored in accordance with the installation instructions.

1.3 Hazardous dust

- When handling sucked dust and or when changing the filter; masks, goggles and gloves must be used.
- Also check the local environmental and health regulations.

1.4 Body injuries

- Nozzle inlet must never be applied against bare skin because the high vacuum can cause body injuries.

1.5 Sound

- When working near open-frame units in operation, ear protection should be used.
- Also note that nozzles and suction ports can produce harmful noise.
- Follow the local noise regulations.

1.6 Pneumatics

- Never direct compressed air against bare skin and do not use compressed air to clean up yourself or your clothes.
- When the cyclone top is removed, running the filter cleaning is prohibited.

1.7 Other Equipment

- After use, keep hoses and cleaning equipment suspended, to prevent injuries.

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2 FUNCTION

The central unit consists of 1 direct-drive side channel blower mounted on a stand, with filter cyclone and a cabinet. The fan works with a, by us dimensioned, flow and under pressure to achieve optimum performance. Filter cyclone will separate into two steps, first by cyclonic action where the heaviest and largest particles are separated and then in a pleated cartridge filter that separates all fine particles. The filter material is tested and approved according to DIN 28184. The electrical automatics which handles starting, stopping and filter cleaning, is built into a plastic housing that is screwed on to the machine chassis. Under the cyclone a container for collecting aspirated material, is placed.

When one of the suction points is activated, the unit starts. When all outlets are closed the unit stops after a preset time (approximately 5-15 minutes depending on CE type). Filter cleaning is done with 4 pulses of air during about 30 seconds.

3 INSTALLATION INSTRUCTIONS

- Secure the assembly in the chassis mounting points.
- Electrical connection and other connections must be carried out according to the attached wiring diagrams and by authorized personnel.
- Connect clean and dry compressed air at the correct pressure (5 bar).
- Check the air quality to avoid malfunctions due to dirt or water.
- When placed outdoors compressed air should be supplied with injection of freeze protection.
- Connect only to pipe systems intended for the under pressure that the unit is suitable for.

4 INSTRUCTIONS FOR FIRST START

- Check that the electrical connections are properly made (performed by authorized personnel).
- Check that the compressed air is connected and that the pressure is set correctly (5 bar). Higher pressures must not be connected as this might cause filter and cleaning system damage.
- Make sure to mount the container under the cyclone.
- Check that pneumatic connections are tight.
- Check that the connections to the piping is properly routed.

Start/Stop

- Turn the security/safety switch to position 1.
- Turn the control switch on the cabinet front to the location 1.
- Activate any of the sockets and check that the suction unit starts.
- Check the direction of rotation, clockwise.
- Close the outlet and check that the filter cleaning runs for approximately 30 sec.

After these steps are completed, the unit is ready for use.

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5 PERIODIC MAINTENANCE/SERVICE

BEFORE STARTING MAINTENANCE, SAFETY REGULATIONS SHOULD BE READ THOROUGHLY.

Maintenance turbines/fans:

These are maintenance free and requires no maintenance.

NOTE! The suction unit is a precision machine and it is important that the filter is in impeccable condition. The clean side needs to be completely kept from dirt and dust.

Filter:

The central unit has a high quality polyester filter and high-efficiency filter cleaning, which means that filter replacement is not needed too often.

When changing the filter:

Turn off the electrical supply to the Unit.

Remove the container.

Release the locking ring and remove the reduction cone.

Release the wing nut at the bottom of the filter.

Then carefully remove the filter and place it in a plastic bag.

Fit a new (or cleaned) filter and tighten the wing nut.

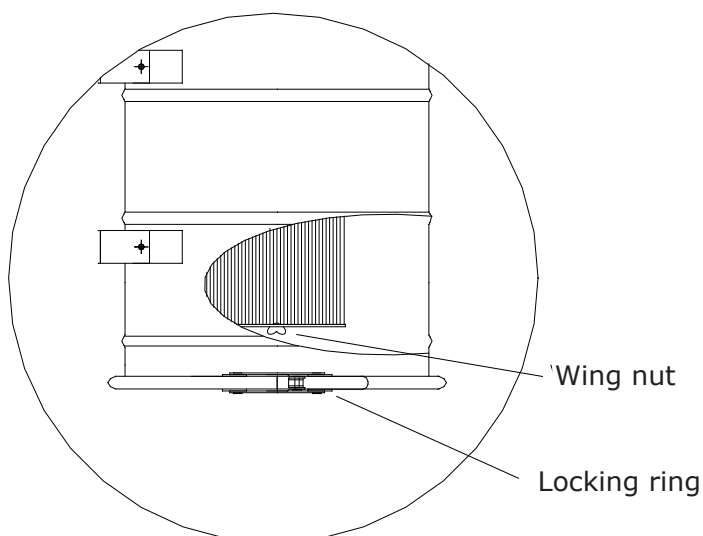
Remount the reduction cone/container.

The central unit is ready for operation again.

The filter is washable and can be rinsed clean from the inside with lukewarm water.

The filter material can withstand washing 3-4 times, then it must be replaced.

NOTE! Do not use high pressure cleaning, otherwise the filter material will be damaged.



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6 TROUBLESHOOTING

If the machine will not start:

1. Check the fuses and the power to the machine.
2. Check by strapping directly to the start input.
3. If the fans then start but not when any of the workstation switches have been turned on, check the cables and connections and/or if there is a fault in the control loop.

If the machine starts but the vacuum is poor:

1. Check that there are no leaks in the pipe system, hoses or valves.
2. Check that the bottom valve on the filter cyclone and the preseparator are fitted, so that they close properly, and check the cleaning shutter.
3. Remove the container or plastic bag and check if the cyclone or the filter is filled with dust.
4. Check if there is any clogging of the pipe system.
5. If the suction still is poor then change the filter.

If the machine blows dust:

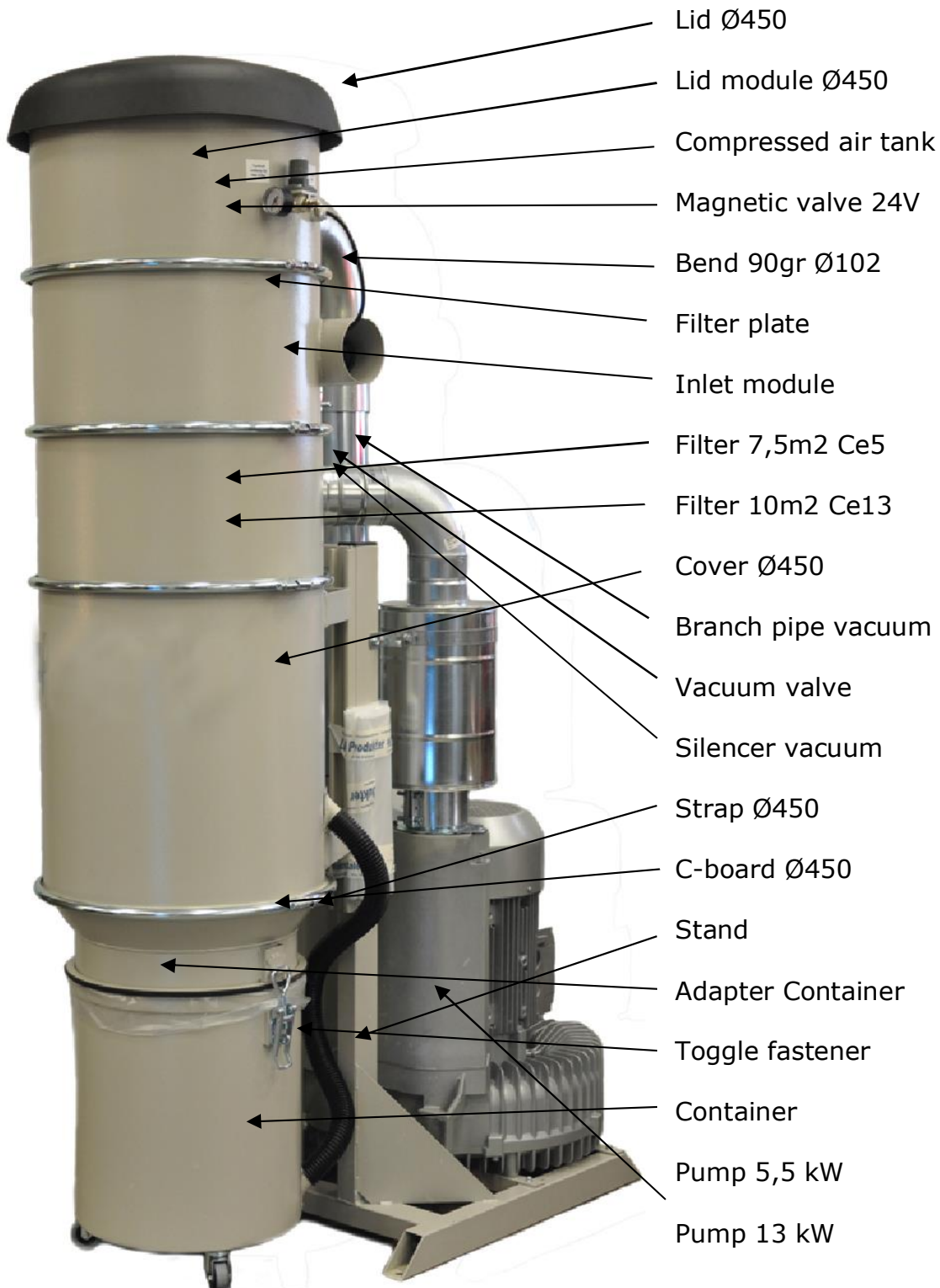
1. Check that the filter is not perforated or has come loose.
If that is the case then change the filter.

Abnormal sound from machine:

1. Check that no particles have entered the fan.
If that is the case then order service.

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5 PARTS LIST



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Declaration of conformity

Lajac AB
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Tel: +46 (0) 19 320087
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Declares that this product:

Aggregat CE

is in agreement with the Machinery Directive:

The machinery directive 2006/42/EC

Before starting the electrical installation, the unit must be connected to the duct work, or the connections on the damper should be covered securely. Electrical connection must be carried out by a qualified electrician.

This product may not be put into service until a declaration of conformity with the provisions of Machinery Directive 2006/42/EC has been issued for the final machinery, into which the product has been incorporated.

Lars Alm
VD
Lajac AB

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