



H 300

Dust Collector System Installation and operating instructions





Safety regulations

These instructions contain important sections dealing with safety. Special attention must be paid to all framed safety text that begins with a warning symbol (triangle) followed by a signal word, as shown below.



Warning denotes a hazard or hazardous procedure which CAN lead to serious or life threatening injuries if the warning is not observed.



Caution denotes a risk or risky procedure which CAN lead to personal injury or damage to equipment if the warning is not observed.

Also observe the following general safety rules:

- Before starting the machine, read through **these instructions** carefully.
- Also read through the **safety instructions** before putting the machine to use.
- For reasons of product safety, the machine must not be modified.
- Use approved personal protective equipment.
- Use ILMEG Genuine Parts only.
- Always replace worn or damaged signs.



Warning

If the air coming out of the suction fan contains dust. Stop immediately the H 300 and check for leakages. Never operate with dust coming out of the suction fan since the suction fan will be worn out. This can cause severe damages.



Warning

Always turn the H 300 off while moving the equipment. Quick movements of the H 300 can cause excessive forces on the suction fan. This can cause severe damages



Warning

The H 300 contains rotating and moving parts. When servicing the H 300 make sure the hydraulic power is switched off, the pneumatic pressure is evacuated and the electric circuit is switched off.



Caution

Components are heavy. Please use lifting devices where necessary to avoid accidents and damages.

Further safety instructions

- The H 300 can only be used for what it is intended for
- Only qualified and trained personnel may operate the machine
- Practice how to turn off the machine in case of emergency
- The maximal air pressure cannot be exceeded
- Always inspect the equipment before use
- Never use the equipment if you suspect it is damaged
- Always use good practice and sound judgment
- Be alert on what you are doing
- Never use the equipment when you are tired or under the influence of drugs, alcohol or anything else that can affect you vision, your reactions or your judgment
- Participate in safety training and other trainings applicable
- Never hit the equipment and never misuse it
- Store the equipment in a safe place and without reach of children
- Make sure that all equipment is maintained in the right way
- Make sure that warning signs and decals is readable and maintained.
- Make sure that unauthorized personnel never comes within the working area of the equipment
- Keep the workspace free from foreign objects
- Never point compressed air against yourself or anybody else. To avoid damages, never use compressed air to clean your clothes form dust and other dirt.



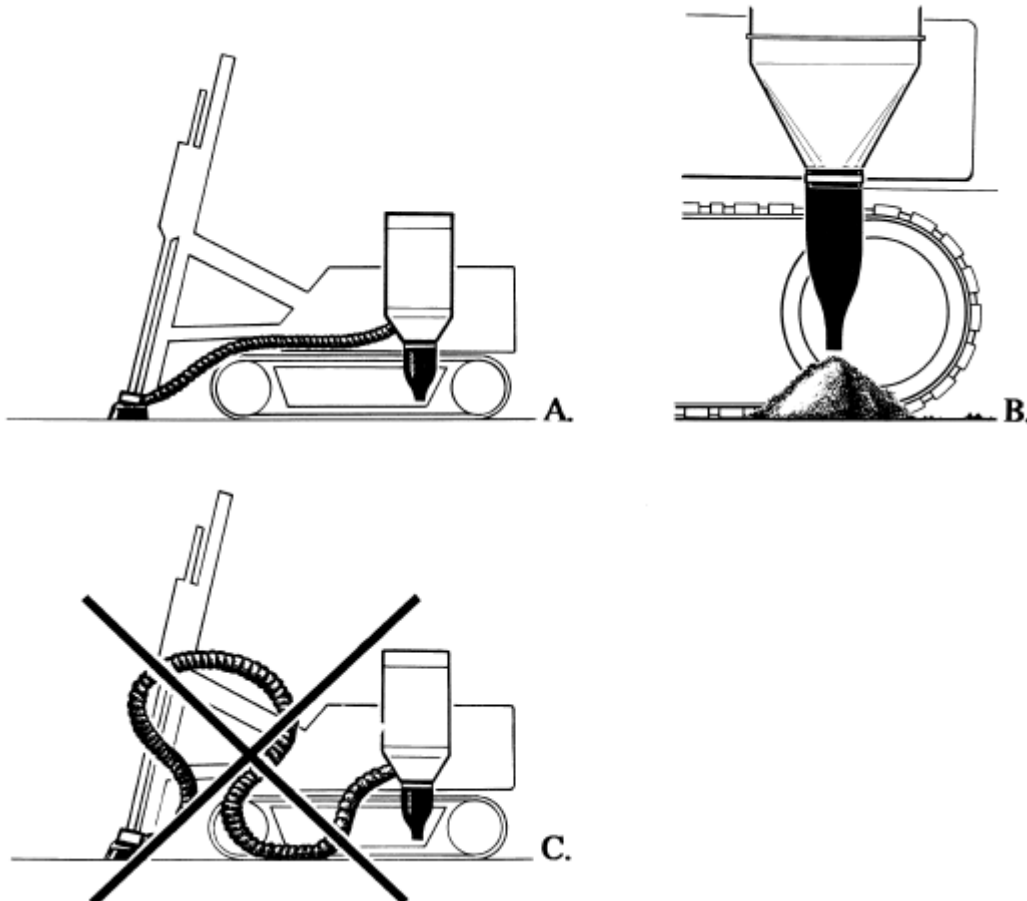
Specification H 300 Dust Collector System

Max hole size:	51 mm (2")
Filter area:	3.2 m ²
Oil flow requirement:	25 l/min
Oil pressure requirement:	200 BAR
Approx weight:	80 Kg
Filter cleansing system:	Reversed air
Electric system:	24 V

Installation

Mechanical installation

Make sure the mechanical bracket used for the HS 900 is sufficient to carry the full weight of the dust collector in rock drilling applications. Correct mounting is as close to the feed beam/ rock drill as possible to reduce the suction hose length. The suction hose should be as straight as possible.



Hydraulic installation

- Contact a hydraulic specialist to design the hydraulic circuit for your application.
- The hydraulic hoses for the pressure and return line must have the capacity of 25 l/min and 200 Bar pressure without excessive counter pressure. Recommended size is $\varnothing \frac{1}{2}$ " or $\varnothing 13$ mm.
- The drain line size is recommended to be $\varnothing \frac{1}{4}$ " or $\varnothing 6$ mm and connected directly to tank. No backpressure is allowed. With too high back pressure in the drain line the hydraulic motor axle gasket will be damaged and leakage will occur.



Warning

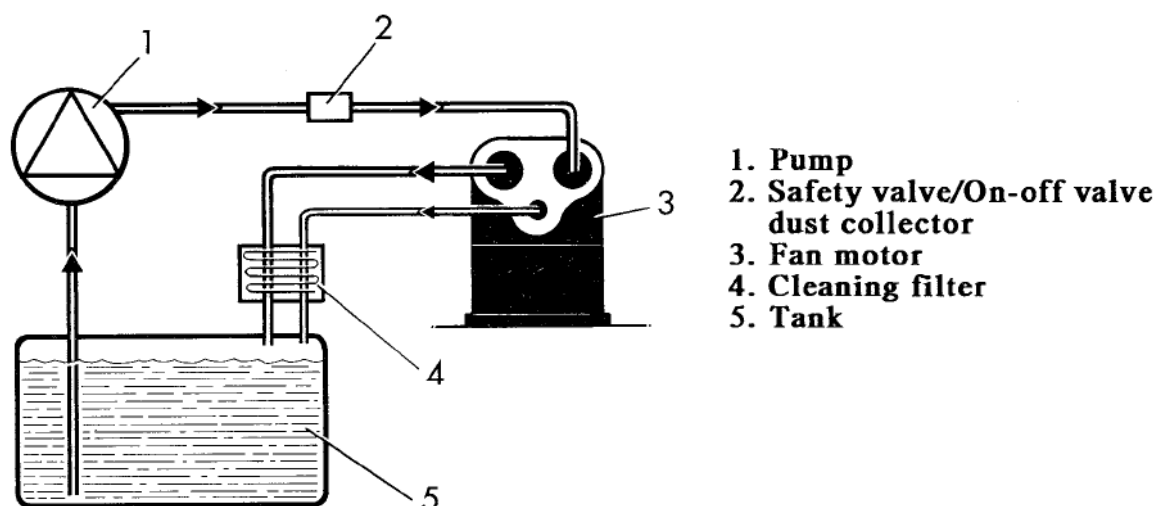
Always use proper quality of hydraulic hoses and fittings to reduce risk of leakage. Hydraulic pressure can cause severe damages.



Caution

Hydraulic oil leakages have a negative effect on the environment.

Attach the pressure line to the port marked P and the return line to the port marked T.
Connect the drain line to the drain port on the hydraulic motor as shown on the sketch below.



The maximum speed for the fan is 5000 rpm which corresponds to appr 25 l/min hydraulic flow.



Warning

Do not install more hydraulic flow than specified. Over-speed of the fan can cause severe damages.



Air pressure installation for the filter cleaning system

Connect air supply for the filter cleansing function of the dust collector. Recommended pressure is 7 BAR or 100 PSI. To safeguard full filter cleansing effect a $\varnothing$ 1" or $\varnothing$ 25 mm hose is recommended.

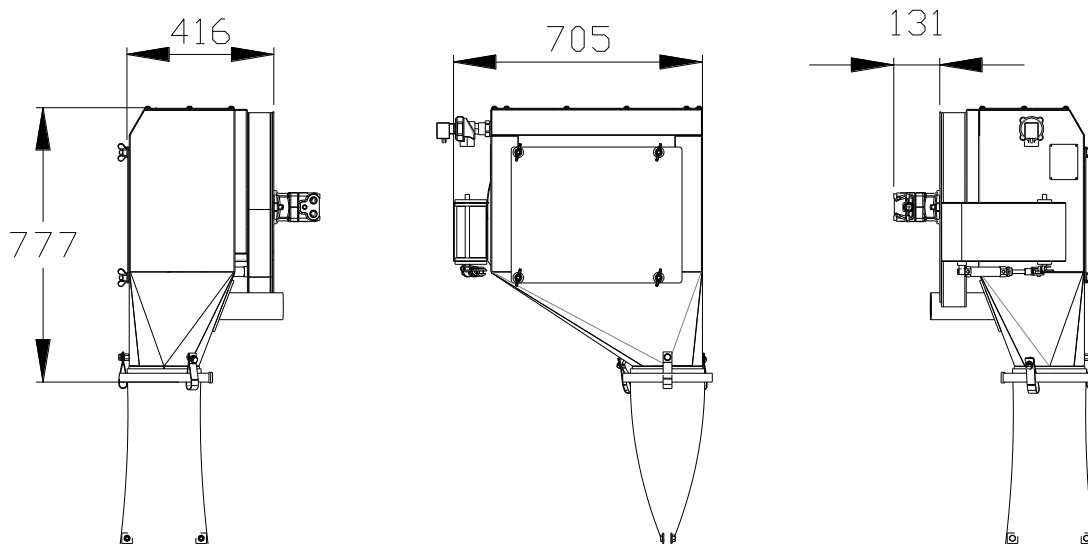


Warning

Always use proper quality of pneumatic hoses and fittings to reduce risk of leakage. Pneumatic pressure can cause severe damages.

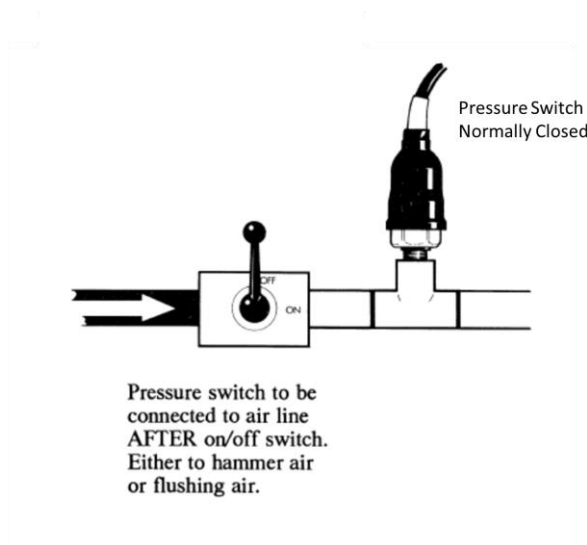
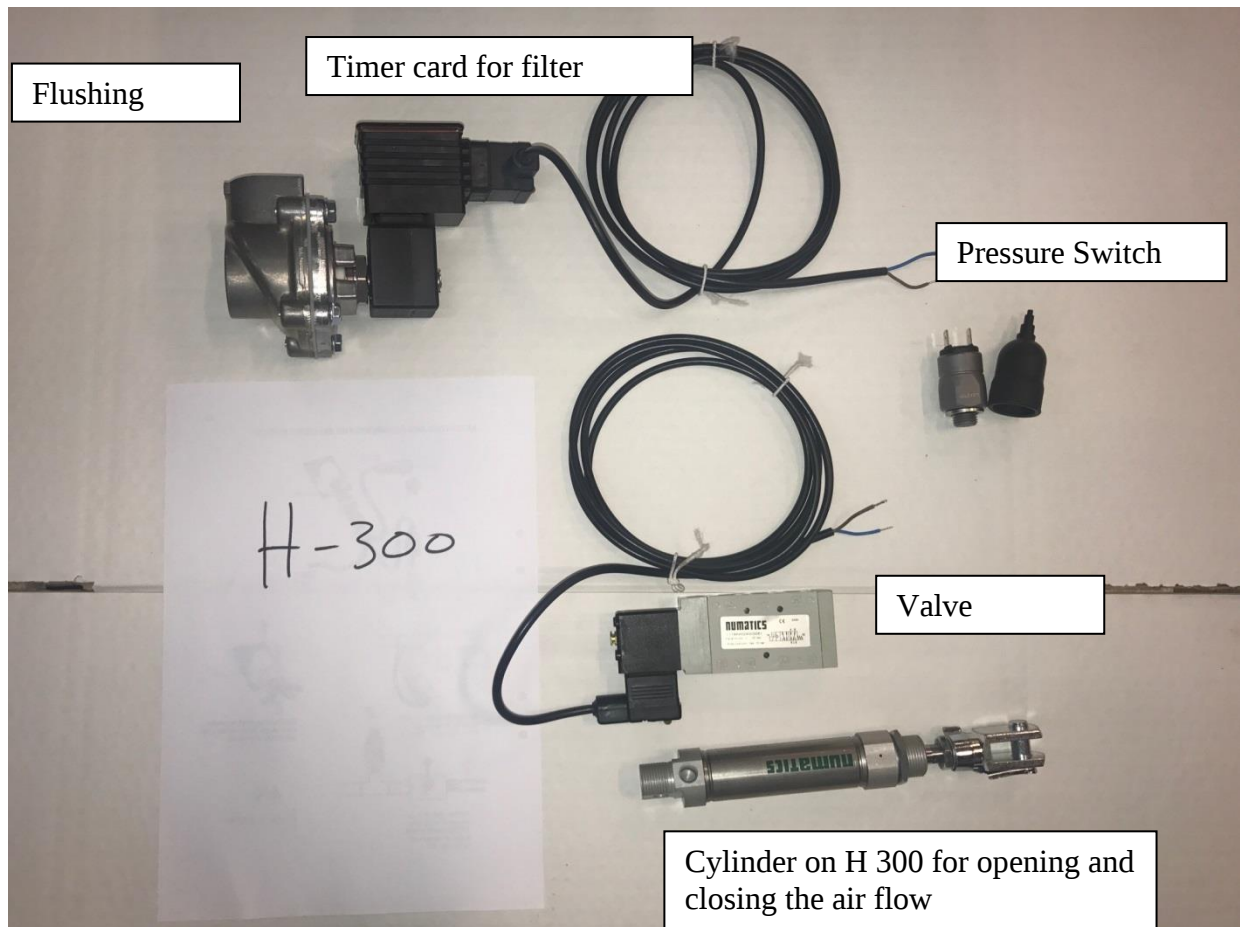
Suction hose installation:

The suction hose recommended for the H 300 is $\varnothing$ 3" or $\varnothing$ 76 mm. Mount the suction hose on the machine avoiding bends on the hose to secure the best suction capacity.





ILMEG H 300 Electric installation





Electrics (12 or 24VDC):

The pressure switch is Normally Closed. When the air flushing is active the switch opens (setting is 3,5 Bar but can be adjusted).

When pressure switch is open there is no power to the timer card for cleaning and no power to the air valve. (Power = 12 or 24 VDC depending on specification) Thus no cleaning is carried out and the main air valve, activated by the air cylinder, is open.

When the pressure switch is **not** activated there will be power to both the timer card for cleaning and power the air valve. Thus cleaning pulses are carried out and the main air valve is closed.

Compressed air:

Connect port 2 on air valve to the air cylinder. Connect air pressure to port 1 on the air valve.