

# Pressure Honey Filter User's Manual

A vertical pressure filter with a large filter surface is used for the purification of honey after its extraction of the remaining impurities.

The device is simple to operate, easy to handle and clean, since some elements can be easily separated.

All elements of the pressure filter (casing, bottom, perforated filter, connectors) are made from high-grade stainless steel. A perforated cylindrical filter of 120mm in diameter and a length of 1000mm is responsible for filtering out of any impurities that may have remained after extraction process. The filter hole diameter is 1 mm.

## • Operation principle

After extraction honey is pumped into the filter. Pressure inside is controlled by a sensor which switches off the pump in case of filter clogging up. The device is equipped with SMS connectors for quick removal and cleaning of clogged up filter.

## • Description

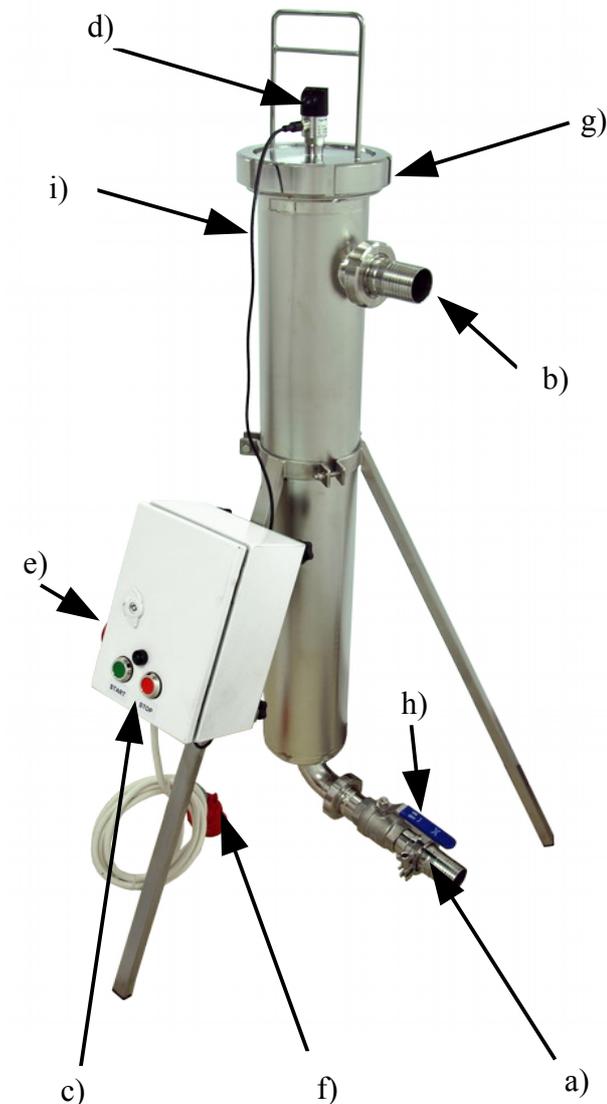


fig.1 Pressure filter's parts

a) Pipe with valve, specially shaped inlet nozzle for easy pump connection (honey inlet).

**IMPORTANT !: After connecting the honey supply hose (a) to the filter open the ball valve immediately!**

b) Drain pipe with specially shaped nozzle for easy connection of drain hose.

c) controller box

d) pressure sensor

e) pump power supply connector (400V or 230V)

f) controller box's power supply 400V

g) lock nut (SMS connector)

h) ball valve

i) pressure sensor cable

The filter consists of perforated stainless steel tube into which filtered honey is pumped.



When filter gets clogged up sensor d) cuts the power in the controller box, into which the honey pump e) is connected. Before taking the filter out of the casing, the pressure sensor needs to be disconnected from the controller box, otherwise the cable may get damaged. Next step is to undo the SMS lock nut using the supplied wrench.

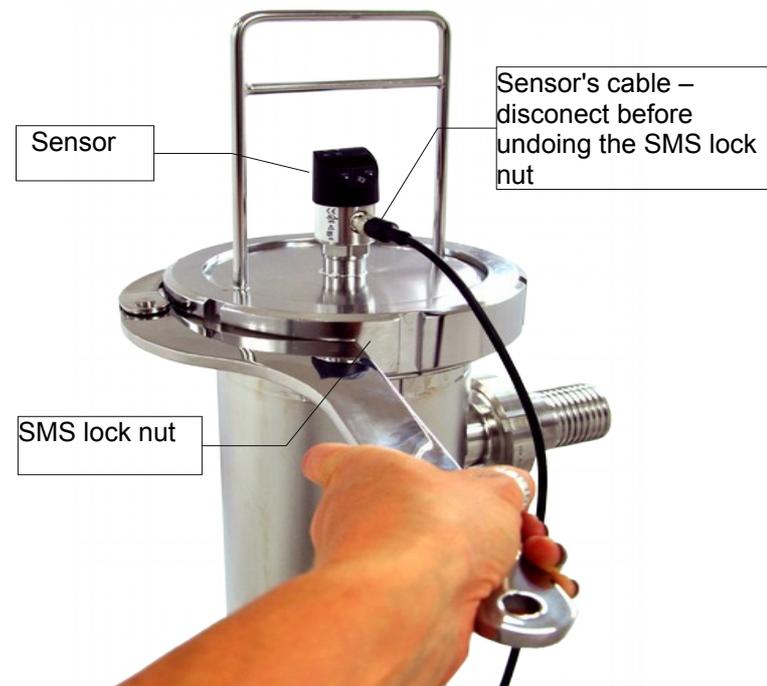


Fig.2 SMS lock nut

**It is forbidden to carry out any maintenance work during operation or when the device is plugged into the power mains!**

## Maintenance

After the filtering is finished, pump out the remaining honey from the filter by changing the direction of pumping (we set the direction of rotation of the pump on the controller).

Then, switch the filter off, unplug it, and then:

1. disconnect the pressure sensor i)
2. undo the SMS lock nut g)
3. take the filter out of the casing

Wash all the metal parts in very warm water and dry.

## **Pressure sensor description**

Factory setting of the sensor is 1,5 bar.

**The sensor's indications are highly dependent on both honey's temperature and it's thickness**



### **Technical parameters:**

- Power supply: 400V
- Pressure sensor 1,5 bar
- External filter diameter: 150 mm
- Cylinder diameter: 120 mm
- Length: 1000 mm
- Diameter of filtration slots: 1 mm
- Valve 6/4"
- Outlet opening diameter: 50 mm
- Inlet opening diameter: 50 mm