

## STRONG 4000 Air-Cleaner

Strong 4000 is one of the strongest air-cleaners / negative pressure devices on the market, and THE strongest in 4000 m<sup>3</sup>/h air volume range. The machine successfully combines very high air volume and air pressure, low noise level as well as a very light weight when compared to its power. Strong 4000 brings a completely new filtering system to the market, as a common wooden HEPA H13 box filter has been replaced with 16 separate cartridge filters. This brings lot of benefits as for example the machine is approximately 30-40 kg lighter than a common air-cleaner with big wooden box filter, the filter costs in use are much less than with box filters and the air volume durability stays on high level far longer than commonly have been used to. Also human errors causing a filter to break are one of the most usual reasons to change a box filter. With cartridge filters those are easier to handle, and not so easy to break, and even if a filter would drop and get broken it would need only to change that specific cartridge. Devices HEPA H13 cartridge filters are built with an protective paperboard structure, and the HEPA H13 textile is located between two (2) paperboard layers making it a so called "unbreakable" filter. The same cartridge filter goes both with the Strong 4000 air-cleaner as well as the Strong S28 vacuum cleaner.

The Strong 4000 air volume is measured as a REAL full air amount when all filters attached. The real air amount is above 4000 m<sup>3</sup>/h which is a lot more than commonly in the 4000 m<sup>3</sup>/h range air-cleaners in the market. Normally those are mostly measured with a 1-point measurement or fully without filters attached which gives a completely distorted figure from the real full air amount.



### Technical data

Max. full air volume	
With filters attached:	>4100 m <sup>3</sup> /h
Max. 1-point air volume	>5000 m <sup>3</sup> /h
Connected power	230 V / 1,5 kW
Weight	55 kg
HEPA H13 size, 3-layer	16x1,1= 17,6 m <sup>2</sup>
Size (LxWxH) mm	1090x610x750
Included with:	
Signal light for filter clogging	Yes
Usage hour counter	Yes

### Accessories:

- Cellfoam rubber pre-filter
- Active coal textile filter
- Hose connection lids for front panel:
  - 1x315mm
  - 4x160mm

[www.strong.fi](http://www.strong.fi)

# STRONG

## Motor technique

Strong 4000 air-cleaner uses an advanced motor technique. The heart of the device is based on a 3-phase motor which is transformed to a 2-phase 220V motor for this air-cleaner. It gives a benefit of using a so called torque motor. This means that the device controls the air-flow and as the filters, normally coarse filter, get dirty, the device notices the lack of air-flow and adds more torque to the motor sustaining the air-flow and possible negative air-pressure much longer than normal air-cleaner motors. At the point when the torque is added on maximum and filters get more dirty, the signal light comes "On" telling the user to clean or change the coarse filter.



## Filters

### Pre-coarse filter:

The Strong 4000 pre-coarse filter is an accessory ordered separately. The pre-filter is a cellfoam based rubber filter, which idea is not so much of filtering the particles, but protecting the main coarse textile filter when the dirty filters are cleaned with a vacuum cleaner. The pre-filter protects the sensitive coarse filter surface as the vacuum cleaner hose does not get in touch with the main coarse filter. The rubber material can sustain a lot more of rubbing and brushing, and this way the coarse filter and also HEPA H13 cartridge filters last longer.

### Coarse filter:

The Strong 4000 is normally provided with a single textile coarse filter. The coarse filter is a common ventilation machine textile filter with a filtering level EU3-EU5 (=G3-G5). It gives the benefit that this filtering material is easy to find locally almost anywhere in Scandinavia and Europe. The textile filter is normally vacuumed after getting dirty, and as the filter wears out it shall be changed.

### HEPA H13 cartridge:

The Strong 4000 HEPA H13 filtering is built with 16 separate cartridge filters giving the device a total HEPA H13 textile amount of 17,6 m<sup>2</sup>. Normal wooden box filter has maximum approx. 7-7,5 m<sup>2</sup> of HEPA textile. The amount of HEPA textile in Strong 4000 makes the filters last much longer, and still when the time to change filters come, normally only changing from 4 to 8 cartridges from lowest rows will make the device work perfectly again for a long time. If the pre-filters and coarse filters are kept in good shape, the HEPA cartridges last easily even 12-24 months without any need of replacing new ones.

## Strong 4000 - The most economic purchase

The Strong 4000 devices high performance can be compared for example to common 2000 m<sup>3</sup>h range air-cleaners in the market. One Strong 4000 unit is easily as effective or even more effective than 3 to 4 units of normal 2000 m<sup>3</sup>h range devices. Still the user has only one (1) devices filter costs to take care of as well as longer lasting filters attached. Also the purchase cost is only a small share when compared of buying several units instead of one.