

**STRONG-1000****STRONG-1000B****STRONG-2000****STRONG-2000B**

Application

As stationary filtering units – STRONG are proper solutions for cleaning the air from dry dust, arising during various production processes, in metal processing industry, food production, chemical industry, pharmaceuticals, plastic processing and other. The maximum temperature of the conveyed air is 60°C. Due to the automatically regenerated cartridge filter with a teflon membrane, the dust particles (even those smaller than 0,4 µm) are separated on the outer surface of the filter. Subsequently, the impurities are struck periodically down by impulses of compressed air.

STRONG-1000 and STRONG-1000B are equipped with one Ø160 mm connection ferrule for supplying the polluted air, whereas STRONG-2000 and STRONG-2000B are equipped with two such connections.

Structure

STRONG consists of following elements:

- steel housing
- radial fan with a 1-phase motor 1,1 kW (STRONG-1000, STRONG-1000B) or a 3-phase motor 2,2 kW (STRONG-2000, STRONG-2000B),
- one cartridge filter – polyester paper coated with a teflon membrane type PTM class H13 (STRONG-1000, STRONG-1000B) or two such filters (STRONG-2000, STRONG-2000B),
- compressed air tank and one electromagnetic valve (STRONG-1000, STRONG-1000B) or two valves (STRONG-2000, STRONG-2000B),
- waste container (a metallic container on wheels – for the versions STRONG-1000 and STRONG-2000) or in a form of a polyethylene bag – versions STRONG-1000B and STRONG-2000B.
- four legs – as a base for the housing
- connection ferrule Ø160 at the suction side (STRONG-1000, STRONG-1000B) or two connection ferrules (STRONG-2000, STRONG-2000B),
- control unit as power supply and control unit of the device function.

Operational use

The appliance requires connection to the external compressed air installation of pressure 6-8 bar. To the suction ferrule should be connected a ventilation conduit (supplying the polluted air). After the device start, the control unit ensures a continuous work of the fan and an automatic filter cleaning by means of periodical impulses of the compressed air – without work interruption. The cartridge filter requires replacement for a new, after 1-2 years of use. The device in STRONG-1000 and STRONG-2000 version is equipped with a signalling of the fill-up state of the waste container. In versions STRONG-1000B and STRONG-2000B it is simply visible when the waste bag is full.

Technical data

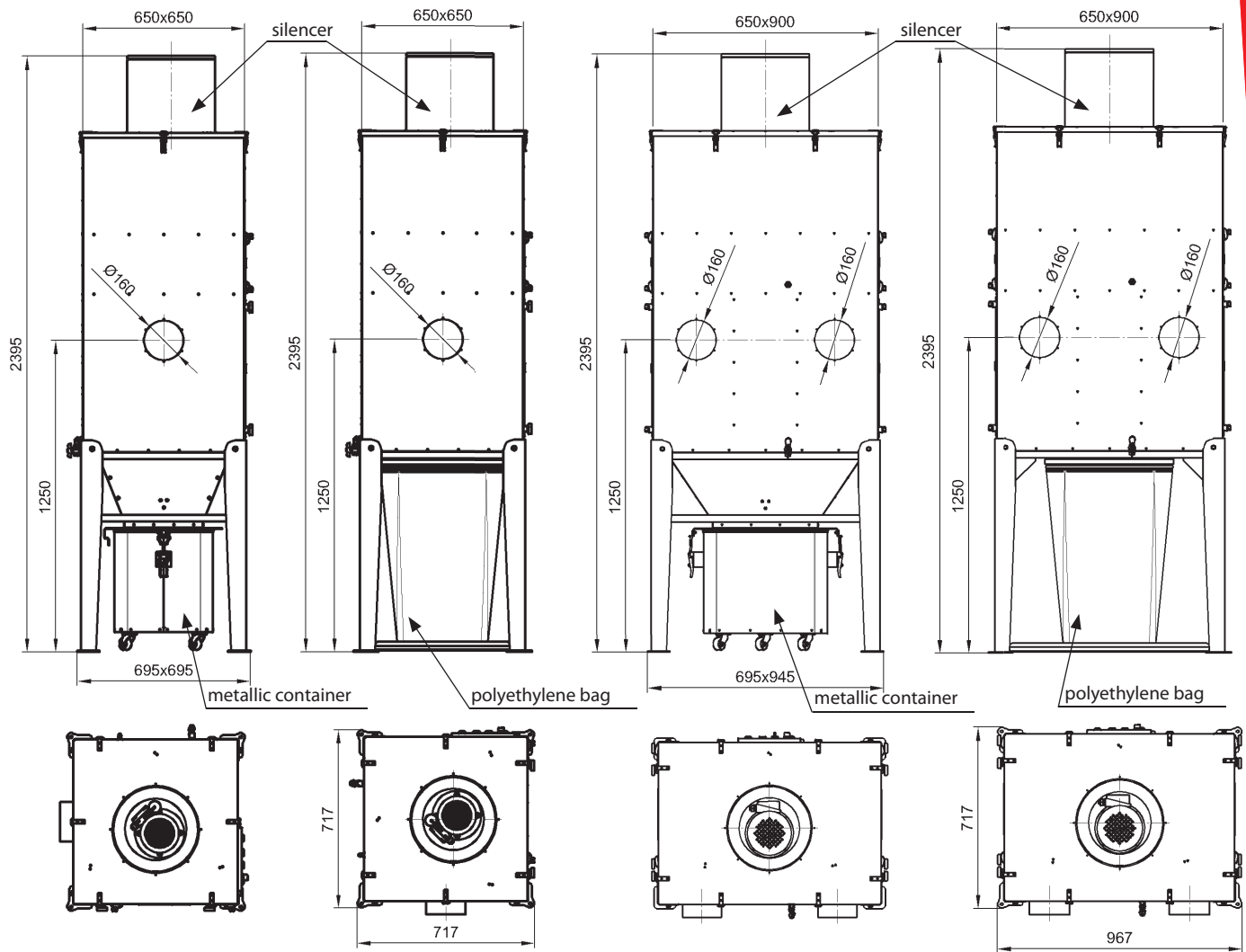
Type	Part No.	Maximum volume flow [m ³ /h]	Supply voltage [V]	Motor rate [kW]	Noise level [dB (A)]	Capacity of the waste container [dm ³]	Weight [kg]
STRONG-1000-S	804U55	1200	230	1,1	68	72	182
STRONG-2000-S	804U56	2200	3x400	2,2	72	72	224
STRONG-1000B-S	804U57	1200	230	1,1	68	130	163
STRONG-2000B-S	804U58	2200	3x400	2,2	72	130	202

STRONG-1000

STRONG-1000B

STRONG-2000

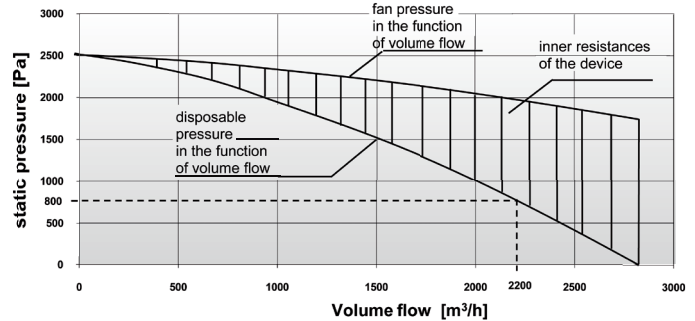
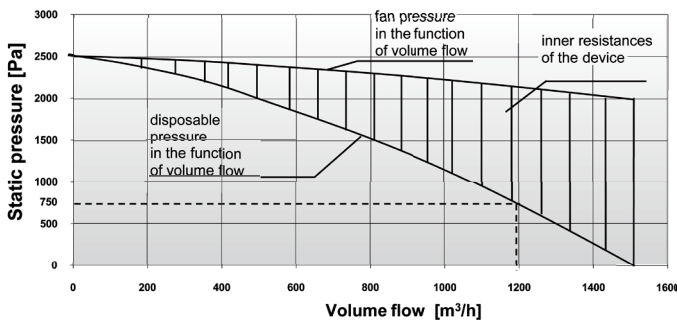
STRONG-2000B



Flow charts

STRONG-1000

STRONG-2000



Nominal volume flow	1200 m ³ /h
Disposable pressure at the volume flow 1200 m ³ /h	750 Pa
Maximum vacuum	2500 Pa
Maximum volume flow	1500 m ³ /h

Nominal volume flow	2200 m ³ /h
Disposable pressure at the volume flow 1200 m ³ /h	800 Pa
Maximum vacuum	2500 Pa
Maximum volume flow	2700 m ³ /h

Replaceable elements

Cartridge filter

	Type	Part No.	Weight [kg]	Class	Filtration efficiency [%]	Remarks
	PTM085032T	452F29	4,2	H13	99,95	Replacement frequency 1 – 2 years. Quantity of filters: - 1 pc in STRONG-1000-S and STRONG-1000B-S - 2 pc in STRONG-2000-S and STRONG-2000B-S
	PTG065032T	452F28	3,7	H14	99,995	
	PTN105032T	452F23	4,7	H12	99,5	
	PTA105032T	452F24	4,7	H12	99,5	

Waste bag with a stiffening insert

	Type	Part No.	Weight [kg]
	WZ-2	834W13	0,6