



Solid CAT – Stainless Steel Duct Filter Housing



The Solid CAT duct filter housing meets your performance needs of all ductworks requiring highest standards of air purity. The modular concept allows cost-effective adaptation to the needs of your process conditions. The housing design ranges from single filterstage air supply or exhaust air filtration either with finedust or HEPA filters up to multi-stage, security solution, including adjustable fans.

Solid CAT duct filter housings are made from welded stainless steel (1.4301 or 1.4404 alternatively 1.4571). Solid CAT can hold combinations of coarse-, finedust- and / or HEPA Filters up to class EN 1822: H14. Even the inclusion of molecular filters for odour and gas adsorption is possible. The integrated filter mounts are suitable for filters either from the **FiltraAir** filter program and of course for standard filters from other manufacturers as well.

The circumferential 30 mm flange can be provided with on-site drills in order to be easily connected to conventional ductworks. Furthermore optional transition pieces can be integrated i.e. from rectangular to the tube channel.

modulesize in relation to the filtertype Width x Height	outer dimension W x H [mm]	airflow class EN 779 G4 [m³/h]	airflow class EN 779 M5 - F9 [m³/h]	airflow class EN 1822 E11 - H14 [m³/h]	filter cartridge dimension (according to type) W x H [mm]
0,5 x 0,5	345 x 415	500 - 1000	240 - 1000	140 - 700	287 x 287 305 x 305
0,5 x 1	345 x 720	1000 - 2100	540 - 2100	300 - 2000	287 x 592 305 x 610
1 x 1	650 x 720	1800 - 4200	1100 - 4200	650 - 4000	592 x 592 610 x 610
1 x 2	650 x 1440	3600 - 8400	2200 - 8400	1300 - 8000	592 x 592 610 x 610
2 x 1	1300 x 720	3600 - 8400	2200 - 8400	1300 - 8000	592 x 592 610 x 610
2 x 2	1300 x 1440	7200-16800	4400 - 16800	2600 - 16000	592 x 592 610 x 610

standard module lengthh [mm]

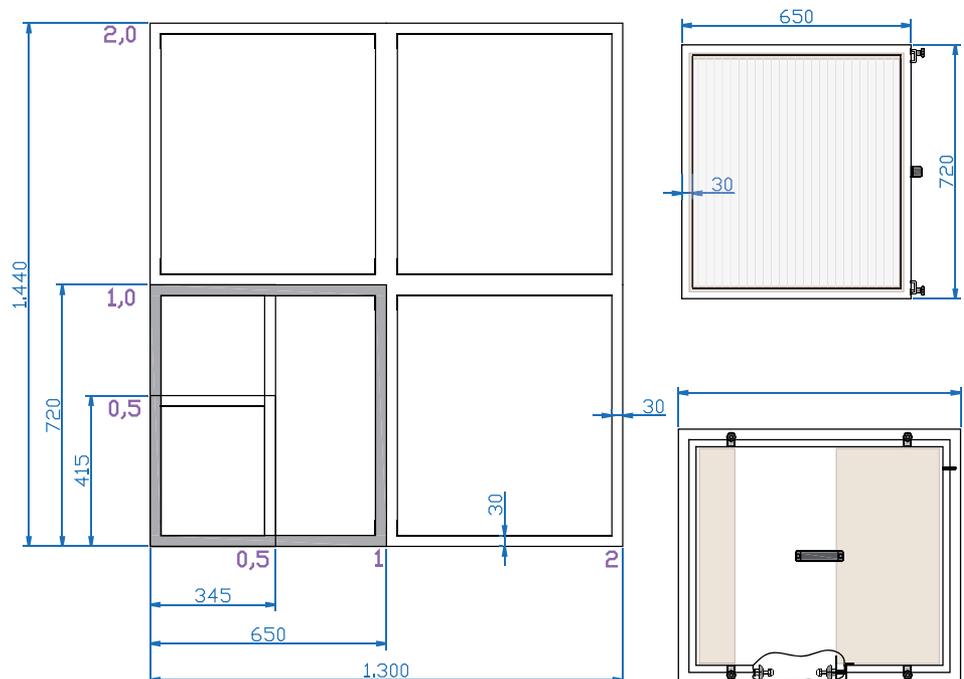
A = 550 mm

B = 800 mm

C = 1000 mm

Standards

- each housing comes with 2 individually configurable filterstages
- inspection doors are related to Height x Length always positioned left or right
- sheet metal strength: 1,5 mm

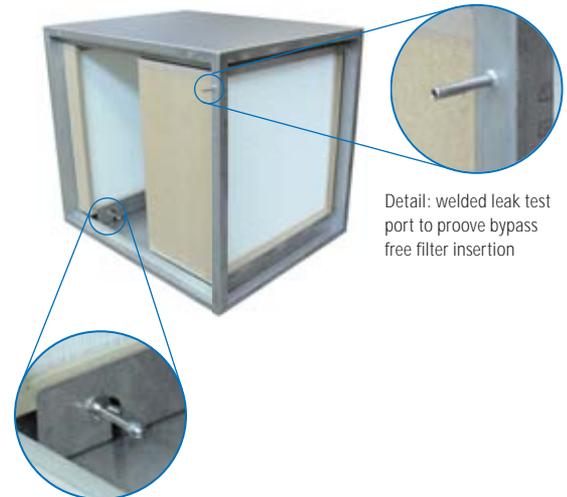


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Installable filters		Filterproperties
panel filters:	Alpha Pak	G3 to M5 (EN 779)
bag filters:	Pak 25 bis Pak 95 optional auch EX-Schutz	G3 to F9 (EN 779)
compact filters:	Beta Pak Beta Pak Yellow Makro (auch EX) Makro F Makro FV	M5 to F9 (EN 779)
HEPA filters:	Mikro S (auch EX) HS- Mikro SF Mikro SFV	E11 to H14 (EN 1822)
molecular filters:	AKP 26 (auch EX) Carbo Pak Carbo Block A055	Absorption of gaseous air impurities such as VOC's, Odours, harmful and corrosive gases such as H ₂ S or SO ₂

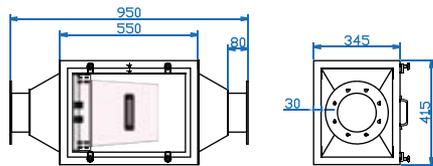
Example housing 1 x 1 (650 x 720 mm)



Detail: welded leak test port to prove bypass free filter insertion

Detail: Filter Mounting with rapid clamping

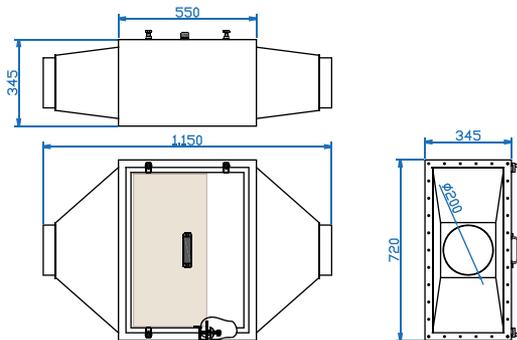
Example: tube connected at 500 m³/h class F7 EX-protected



Duct housing with F7 particle filter for the application with potentially explosive gas / dust.

Housing with welded flange and EX-protection

Example: tube connected at 1000 m³/h class H14



Duct housing for exhaust air purification Particle retention up to 99,995 %

The duct housing offers a conical connector and HEPA rapid clamping system.

Example applications

- sterile air supply in hospitals - also in combination with sterile air contributors
- supply air for clean work places in laboratories and industry such as pharmacy, food and electronics production
- process air filtration
- exhaust air filtration to stay compliant with emission limits or for odor removal
- circulating air processes
- exhaust air filtration in ATEX-Zones
- as assembly part of machinery and heavy equipment
- filtering tasks in off-shore areas (seawater resistant filter system)
- filtration of corrosive gases or aerosols

Options

- connection pieces and flanges according to the requirements on site
- measuring equipments (pressure gauges, pressure sensors etc.)
- fans (axial, radial)
- anti electrostatics (EX-protection)
- mobile unit on rollers
- leak test port to ensure a bypass free filter insertion
- condensate drain port