



CAMSAFE safety housing

Camfil Farr | product brochure

safety & protection

Camfil Farr - clean air solutions



CAMSAFE - Safety housing

CAMSAFE housings are used to separate radioactive, toxic and bacterial particles and gases and provide maximum safety for the operator. Camfil Farr's CAMSAFE safety housing is needed everywhere where hygiene, safety and dust-related demands require that pollutants be separated off from the inlet or outlet air with the absolute maximum safety whilst simultaneously carrying out contact-free filter change.

Areas of application

CAMSAFE safety housings are used in areas such as:

- isotope laboratories
- x-ray departments
- pharmaceutical and biotechnology facilities
- radiotherapy departments
- isolation and epidemic wards
- animal breeding laboratories
- fume hoods

Filters

The CAMSAFE housing is designed as standard for a filter size of 610x610 mm and each one comes equipped with straps to ensure safe filter changes. If desired, the filters can also be fitted with tight-fitting gaskets.

Design features

CAMSAFE air filter housings are designed for contact-free changing of filters and can be used alone or combined with

At a glance features guide:

- ✓ Contact-free filter changing
- ✓ Automatic tension-regulating filter clamping device
- ✓ High-grade steel clamp
- ✓ Rapid and secure filter attachment (lever operated)
- ✓ Gas-tight, welded, solid construction
- ✓ Tightness class B according to EN 1886 and class 3 according to ISO 10648-2
- ✓ Ready flanged
- ✓ 2 mm sheet thickness
- ✓ Epoxy resin coating in RAL 9010 (>70 µm) which is capable of being decontaminated or alternatively high-grade steel 1.4301
- ✓ Optional filter seal seating test device in accordance with DIN 1946
- ✓ Optional accessories such as pressure compensation device, service bags, torchcutting device etc.

connecting pieces (see page 4) to create larger filter units.

The housings consist of a welded, deformation-safe and sturdy gas-tight sheet steel construction and have removable service covers, which are each closed by 4 star-grip screws.

The fact that the cover can only be put in place and screwed tight when the clamping device is under tension and when the filter is correctly fitted means that high operational safety is ensured.

The input opening of the filter comes with a support shelf for the service bag as standard.

The two circumferential grooves, together with a sealing ring, serve for receiving and securely fastening the service bag.

A continuous seal ensures that the fixing cover is sealed tight.

The housings are provided with a high-grade epoxy resin coating in RAL 9010 which is capable of being decontaminated. Alternatively, they can be supplied in high-grade steel 1.4301.



Camsafe P1/ 1000 in high-grade steel 1.4301



The input opening of the filter comes with a support shelf for the service bag as standard, CAMSAFE 1000 version, coated



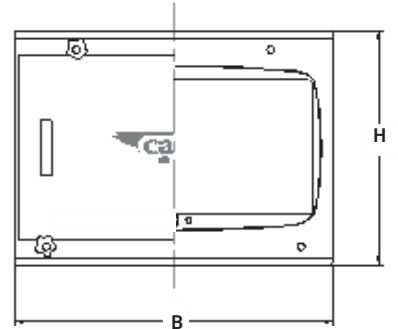
Contact-free filter changing

CAMSAFE Variants

CAMSAFE 1000

Reference no.	Type of housing	Dimensions WxHxD* mm	Dimensions of main filter WxHxD mm	Weight in kg
518010	CAMSAFE 1000 coated	730x535x725*	610x610x292	44
5180101	CAMSAFE 1000 high-grade steel 1.4301	730x535x725*	610x610x292	44

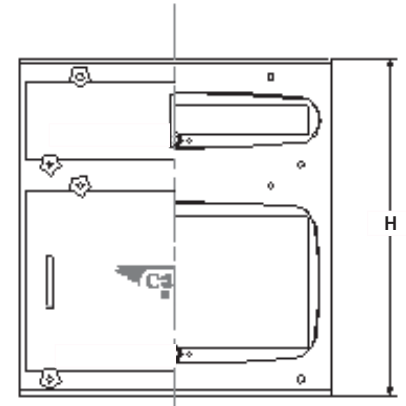
* including cover grips + 90 mm



CAMSAFE P1 / 1000

Reference no.	Type of housing	Dimensions WxHxD* mm	Dimensions of prefilter WxHxD mm	Dimensions of main filter WxHxD mm	Weight in kg
518014	CAMSAFE P1/1000 coated	730x790x725*	610x610x47	610x610x292	69
5180141	CAMSAFE P1/1000 high-grade steel 1.4301	730x790x725*	610x610x47	610x610x292	69

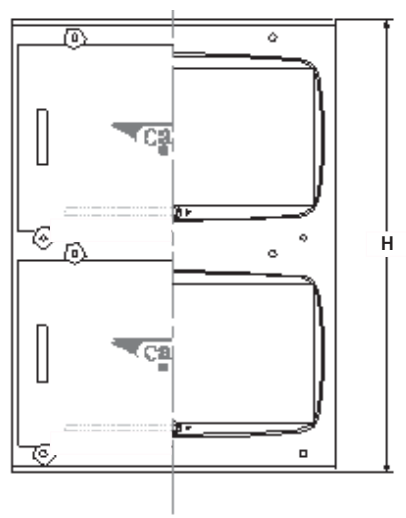
* including cover grips + 90 mm



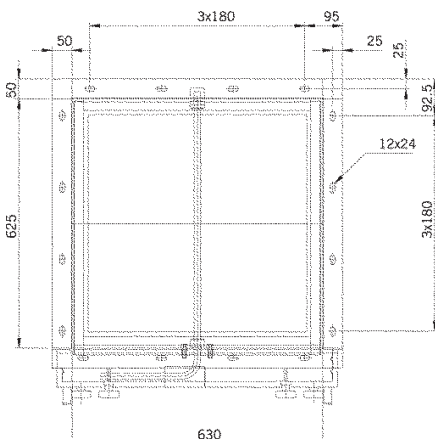
CAMSAFE P2 / 1000

Reference no.	Type of housing	Dimensions WxHxD* mm	Dimensions of prefilter WxHxD mm	Dimensions of main filter WxHxD mm	Weight in kg
518018	CAMSAFE P2/1000 coated	730x1020x725*	610x610x292	610x610x292	89
5180181	CAMSAFE P2/1000 high-grade steel 1.4301	730x1020x725*	610x610x292	610x610x292	89

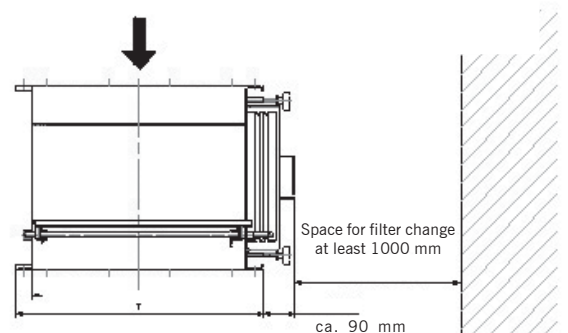
* including cover grips + 90 mm



CAMSAFE flange dimensions



Filter changing

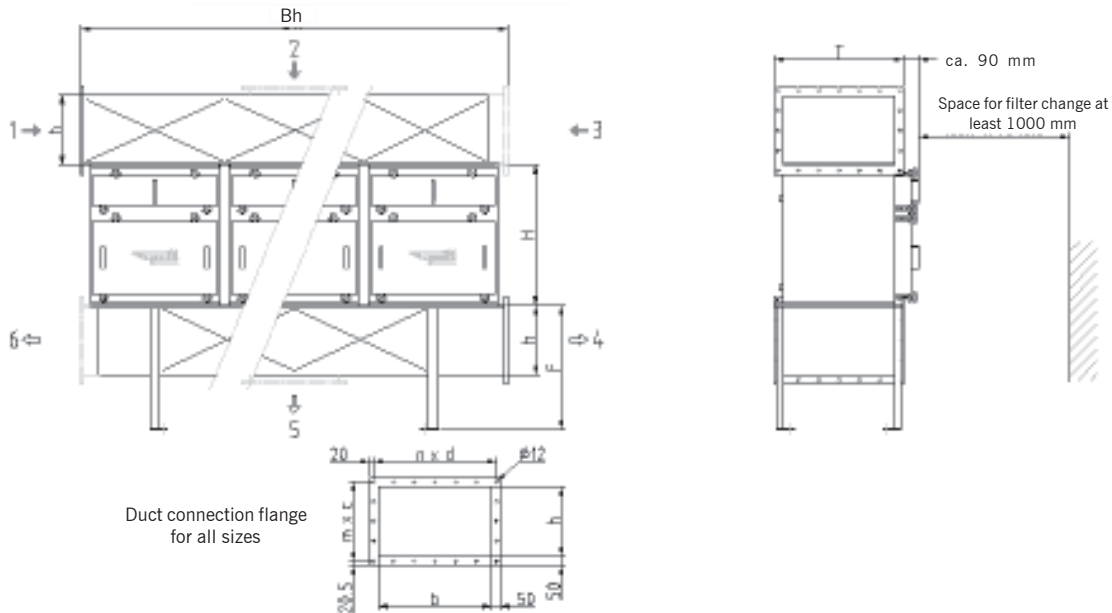


Connecting pieces

CAMSAFE filter systems with connecting pieces can be used for volume flows of up to 24,000 m³/h. Depending on application, 1-4 stage filter systems can be used.

The surface variants correspond to the CAMSAFE housings. The filter systems can optionally be supplied with a pressure compensation device. Connecting pieces 2 and 5 are supplied on request.

General description of the connecting pieces

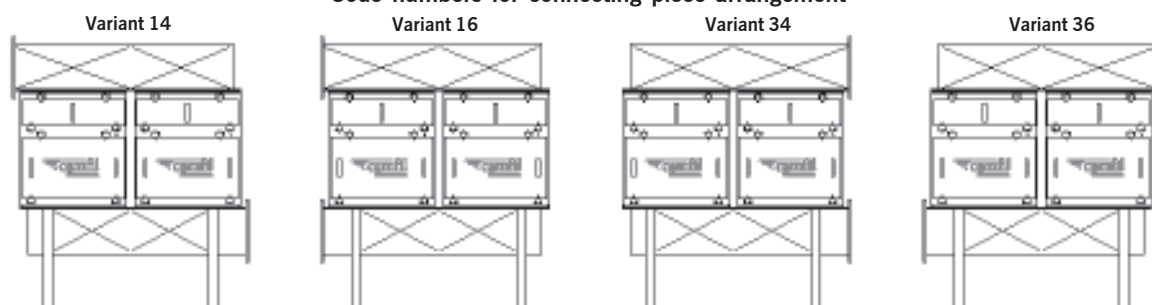


Connecting piece code numbers	1	2	3	4	5*	6*
	Max. Volume flow in m³/h**					
	4000	8000	12000	16000	20000	24000
	Technical data					
Bh mm	840	1625	2410	3195	4017	4802
h mm	250	320	390	490	590	695
F mm	700	700	700	700	700	800
T mm	725					
b mm	625					
c mm	157	96	113.5	138.5	109	126.5
m	2	4	4	4	6	6
d mm	115	115	115	115	115	115
n	6	6	6	6	6	6
Approx. weight inlet air connecting piece	25	45	70	100	155	181
Approx. weight outlet air connecting piece	34	55	79	114	172	200

* For transport reasons, connecting pieces 5 and 6 are supplied separately.

** At high volume flows some flow noises may be heard on account of high airflow speeds in the area of the connecting pieces. Housing and connecting piece resistances must be taken into account when setting up the filter systems.

Code numbers for connecting piece arrangement



Subject to technical alterations

Filter cells

Prefilter



Typ V-Q



Airopac 3CP

Model	Filter class according to EN 779:2002	Dimensions WxHxD mm	Frame	Filter area m ²	Max. airflow m ³ /h	Initial pressure loss Pa	Unit weight in kg
V-375-1000-1GB	G4 / F5	610x610x47	Plywood***	0,2	3000	165	2,0
V-Q-60-1000-1GB	F6	610x610x47	Plywood***	6,9	3000	70	3,8
V-Q-90-1000-1GB	F7 / F8	610x610x47	Plywood***	6,9	3000	130	3,8
V-Q-95-1000-1GB	F8 / F9	610x610x47	Plywood***	6,9	3000	150	3,8
Airopac 3CP-242412-60	F 6	610x610x292	Plywood***	15,8	4000	90	8,9
Airopac 3CP-242412-90	F 7 / F8	610x610x292	Plywood***	15,8	4000	130	8,9
Airopac 3CP-242412-95	F8 / F9	610x610x292	Plywood***	15,8	4000	150	8,9

Note: recommended final pressure loss = initial pressure loss + 100 to 150 Pa

HEPA filter



Absolute 7D / 1D 1000
Super Absolute 1DT



Sofilair

Model	Filter class according to EN 779:2002	Dimensions WxHxD mm	Frame	Filter area m ²	Max. airflow m ³ /h	Initial pressure loss Pa	Recommended final pressure loss Pa	Max. air humidity* % RH	Unit weight in kg
Absolute 7D-1000	H 11	610x610x292	Plywood***	22,5	2500	165	500 - 600	100	16,3
Absolute 1D-1000	H 13	610x610x292	Plywood***	22,5	2500	260	500 - 600	100	16,3
Super Absolute 1DT-242412	H 13	610x610x292	Plywood***	32,7	3000	260	500 - 600	100	17,0
Sofilair H10	H 10	610x610x292	steel sheet	21,0	4000	250	500 - 600	100	20,0
Sofilair H13	H 13	610x610x292	steel sheet	40,0	4000	250	500 - 600	100	23,0
Sofilair H14	H 14	610x610x292	steel sheet	40,0	3500	270	500 - 600	100	23,0

Note: * An increase in filter resistance may occur when operating at around dew point due to aerosol separation.

** Note that pressure loss values given relate in all cases only to the filter and not to any additional pressure losses occurring in the housing or connecting pieces.

*** The frame material is produced from high-grade 12ply wood.

Activated carbon cells



Active carbon cell 7C



Acticarb 4000

Model	Dimensions WxHxD mm	Variant	Active carbon volume in L	Recommended temperature rang in °C	Recommended relative humidity in %	Unit weight in kg
Acticarb 4000	610x610x292	4 V version	65	0 - 40	30 - 70	80
Active carbon cell 7C	610x610x292	16 cartridges Camcarb 2600 S	40	0 - 40	30 - 70	53

Note: The active carbon filters listed can, depending on use, be supplied with different active carbons. For a detailed design please contact your Camfil office.

Subject to technical alterations



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