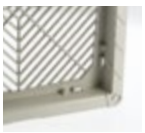
FILTER GROUP
SERIES KFF

Quick installation

The KFF filter group is installed without screws, simply by pressing it into the space on the enclosure.

Innovative securing clip

Created in material with high level of elasticity, for securing on metal sheet from 1 to 2.5 mm thickness.



Improved water resistance

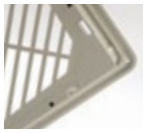
The seal between base and cover has been replaced with ribs that promote movement of water towards the exterior.

Easy slide opening

Removing and replacing the cover on the base features a slide-and-click system.

Effective safety

The filter can be replaced from outside, without the need for any tools.



Hidden seal

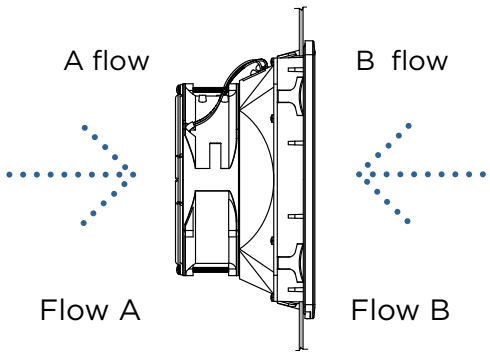
Dedicated perimeter housing for seal between filter group and enclosure.

Code	Model	Voltage (V)	Freq. (Hz)	Absorp. (mA)	Power (W)	Outward air flow (m^3/h)**	Fan noise [dB(A)]	Total weight (kg)	Temperature range (°C)	Certifications
K0011000	KFF08 230	230 V a.c.	50/60	62/50	10/8.0	12/15	33.0/38.0	0.47	-10 ~ +55	CE cURus
K0011010	KFF08R 230	230 V a.c.	50/60	63/52	10/8.0	16/21	33.0/38.0	0.47	-10 ~ +55	CE cURus
K0011020	KFF08G 24	24 V d.c	-	610	15	50	59.0	0.42	-10 ~ +55	CE cURus
K0011030	KFF08GR 24	24 V d.c	-	710	17	60	59.0	0.42	-10 ~ +55	CE cURus
K0011040	Filter KFF08							0.1	-10 ~ +60	CE cURus
K0011050	KFF12 230	230 V a.c.	50/60	110/100	18/17	45/50	49.0/49.0	0.83	-10 ~ +55	CE cURus
K0011060	KFF12R 230	230 V a.c.	50/60	110/100	18/17	47/52	48.0/54.0	0.83	-10 ~ +55	CE cURus
K0011070	KFF12 24	24 V d.c	-	310	7.4	47	42.5	0.54	-10 ~ +55	CE UR
K0011080	KFF12R 24	24 V d.c	-	310	7.4	64	42.5	0.54	-10 ~ +55	CE UR
K0011090	Filter KFF12							0.19	-10 ~ +60	CE cURus
K0011100	KFF15 230	230 V a.c.	50/60	140/150	32/36	230/270	50.0/55.0	1.8	-10 ~ +55	CE cURus
K0011110	KFF15R 230	230 V a.c.	50/60	140/160	32/36	245/290	50.0/55.0	1.8	-10 ~ +55	CE cURus
K0011120	KFF15 24	24 V d.c	-	1300	31	275	60.0	1.7	-10 ~ +55	CE cURus
K0011130	KFF15R 24	24 V d.c	-	1300	31	295	60.0	1.7	-10 ~ +55	CE cURus
K0011240	KFF15P 230	230 V a.c.	50/60	110/100	18/17	105/120	46.0/49.0	1.5	-10 ~ +55	CE cURus
K0011250	KFF15PR 230	230 V a.c.	50/60	110/100	18/17	110/120	46.0/49.0	1.5	-10 ~ +55	CE cURus
K0011140	Filter KFF15							0.57	-10 ~ +60	CE cURus
K0011150	KFF20 230	230 V a.c.	50/60	310/350	70/85	455/503	57.0/60.0	3.6	-10 ~ +55	CE cURus
K0011160	KFF20R 230	230 V a.c.	50/60	310/350	70/85	540/590	57.0/60.0	3.6	-10 ~ +55	CE cURus
K0011170	KFF20G 230	230 V a.c.	50/60	530/690	120/158	680/765	67.0/71.0	4.68	-10 ~ +55	CE cURus
K0011180	KFF20GR 230	230 V a.c.	50/60	530/690	120/157	760/860	67.0/71.0	4.49	-10 ~ +55	CE cURus
K0011190	Filter KFF20							0.96	-10 ~ +60	CE cURus

Legend: R = Reverse flow

GENERAL SPECIFICATIONS

- Installation without screws in square opening, as per drilling diagram
- Sheet metal thickness between 1 and 2.5 mm
- Plastic parts in PC/ABS, with exception of elastic clips in PA66 GF13HSL
- Standard colour grey RAL 7035
- Polyurethane foam seal positioned on machinery
- Filter in thermo-bonded synthetic fibre with progressive density
  - › the filters can be cleaned up to ten times by washing, blowing and beating
  - › replacement filters supplied on request
- Fans on shielded self-lubricating ball bearings
- Standard protection rating IP54 in accordance with EN 60529 and Type 12 in accordance with UL 50
- Standard air flow from outside to inside of casing (Flow B)
  - › Flow A available on request (option R)

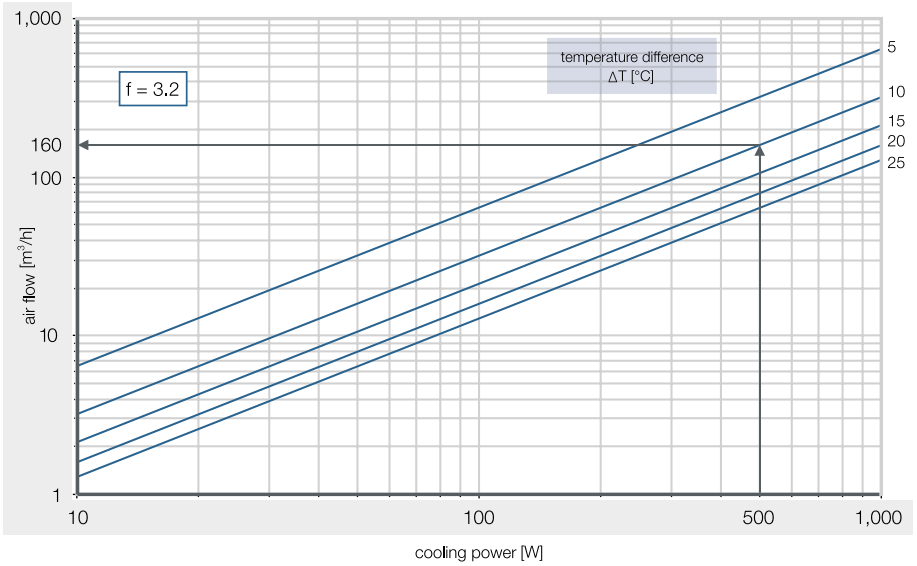


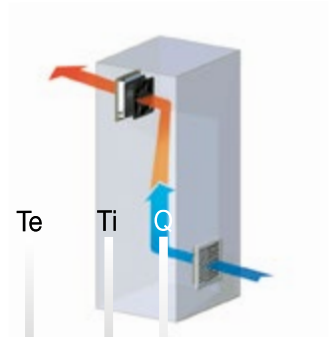
TECHNICAL NOTES

Sizing

It is assumed that the desired air temperature within the cabinet is greater than the ambient temperature. The difference between the internal temperature and the external temperature is referred to as ΔT and is always positive.

The value for the desired air flow of the fan with filter is derived from the ratio between the thermal power to be dissipated and ΔT, all multiplied by a thermal-exchange coefficient f that takes into account the specific heat and density of the air, which varies with altitude.





es: 20 °C es: 30 °C

ΔT=Ti-Te

es: 30-20=10 °C es: 500W

$$\text{AIR FLOW portata d'aria} = f \cdot \frac{Q}{\Delta T}$$

$$\text{es: } 3.2 \cdot \frac{500}{10} = 160 \cdot \frac{m^3}{h}$$

es: 3.2

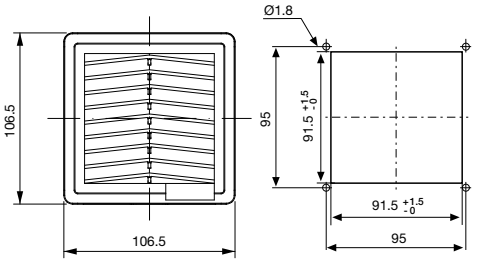
ALTITUDE [m over sea level] QUOTA [metri sul livello del mare]	f [m³ °C/Wh]
0 ~ 100	3.1
100 ~ 250	3.2
250 ~ 500	3.3
500 ~ 750	3.4
750 ~ 1,000	3.5

Legend:
Ti = desired temperature within the cabinet
Te = external temperature (ambient)
ΔT= difference between temperature inside the cabinet and external ambient temperature
Q = active thermal power dissipated within the cabinet
f = thermal exchange coefficient

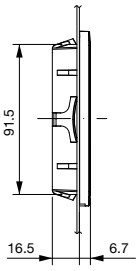
FILTER GROUP KFF08 SERIES KFF

TECHNICAL SPECIFICATIONS/DRILLING DIAGRAMS

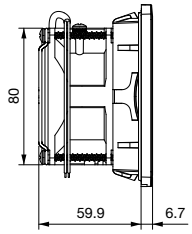
KFF 08



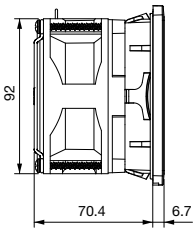
FILTER KFF 08



K0011000
K0011010



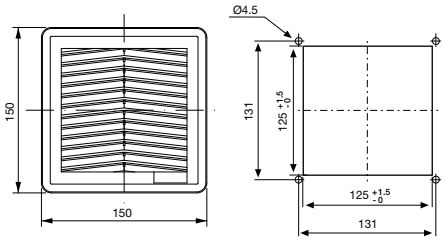
K0011020
K0011030



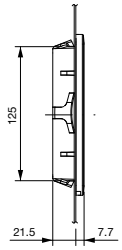
FILTER GROUP KFF12 SERIES KFF

TECHNICAL SPECIFICATIONS/DRILLING DIAGRAMS

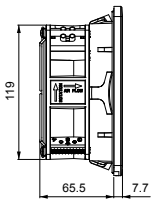
KFF 12



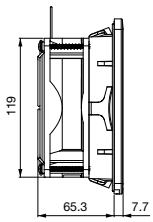
FILTER KFF 12



K0011050
K0011060



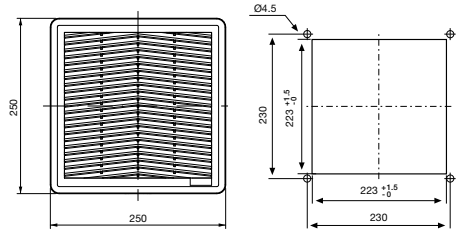
K0011070
K0011080



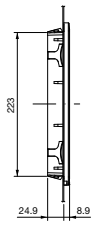
FILTER GROUP KFF15 SERIES KFF

TECHNICAL SPECIFICATIONS/DRILLING DIAGRAMS

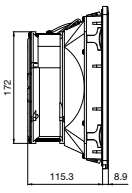
KFF 15



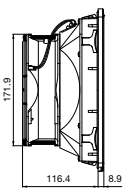
FILTER KFF 15



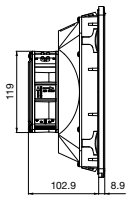
K0011100
K0011110



K0011120
K0011130



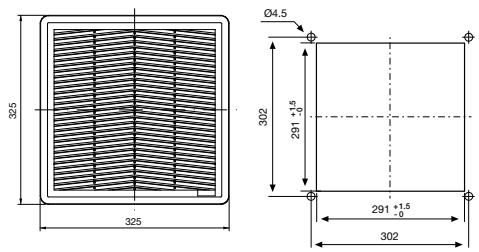
K0011240
K0011250



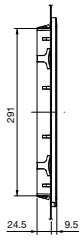
FILTER GROUP KFF20 SERIES KFF

TECHNICAL SPECIFICATIONS/DRILLING DIAGRAMS

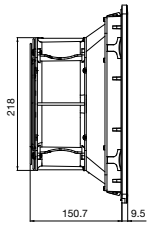
KFF 20



FILTER KFF 20



K0011150
K0011160



K0011170
K0011180