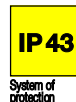


Filterfan® PF1.000



PF1.000

For versatile incorporation into equipment. Examples are in the medical industry, in EDP equipment, warning and control enclosures and also for low power applications.



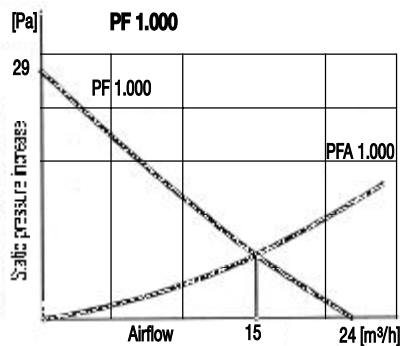
Airflow data:	PF1.000
Filter material (standard grade)	150 g/m ²
Unimpeded airflow	24 m ³ /h; 50 Hz / 28 m ³ /h; 60 Hz
Capacity* free-flow	8 W/K / 9 W/K
Airflow in combination (Filterfan® + Exhaust Filter)	15 m ³ /h; 50 Hz / 17 m ³ /h; 60 Hz (PF1.000 + PFA1.000)
Capacity* in combination (Filterfan® + Exhaust Filter)	5 W/K / 6 W/K (PF1.000 + PFA1.000)
Max. static pressure (Airflow = 0 m ³ /h)	29 Pa
Filtration efficiency	73%
Filter material grade (DIN 24 185)	EU 2
Noise level (DIN 45 635)	39 dB (A)
Duty cycle	100%

* based on 10 K difference in temperature

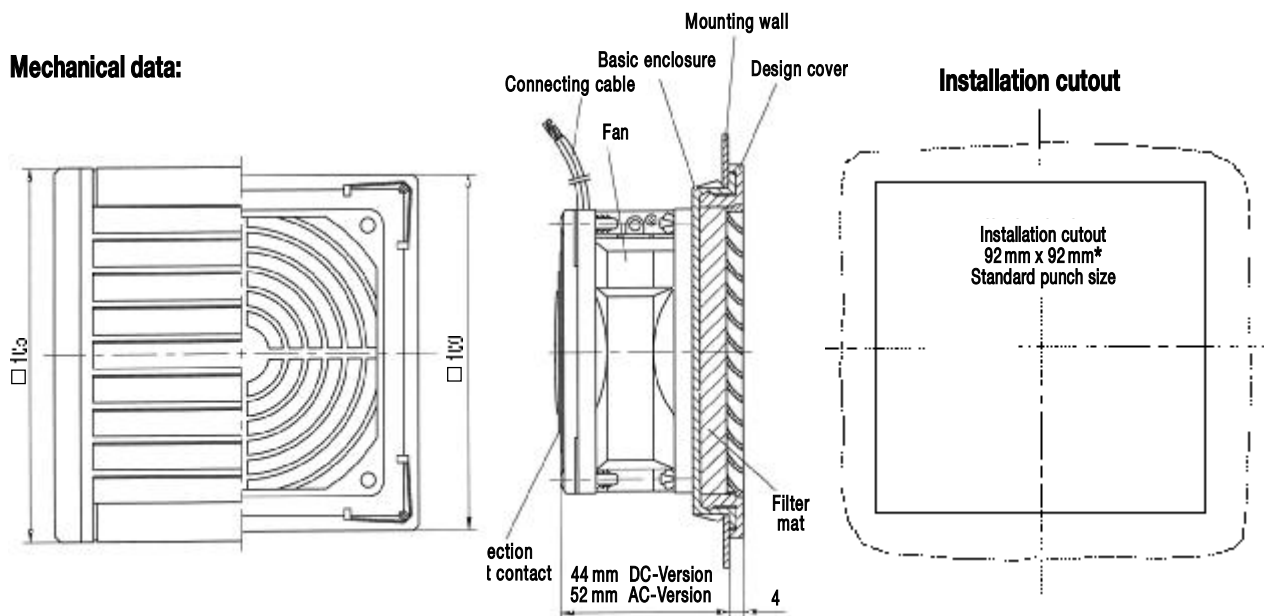
Technical data:	AC	PF1.000	DC
Outside dimensions in mm (Height x Width x Installation depth)	105 x 105 x 52		105 x 105 x 44
Bearing type	sleeve bearings		ball bearings
Fitting position	horizontal – vertical		any
Construction	housing and guard of sprayed thermoplastic (PC-FR) self-extinguishing, UL 94 VO		
Weight	0.60 kg		0.45 kg
Safety protection	in accordance with DIN 31 001		
Colour	RAL 7032 (European grey) or black; other colours on request		
Connections	2 wires, 310 mm long		

Electrical data:	AC 50 Hz/60Hz		PF1.000			DC
Rated voltage	230 V	115 V	12 V	24 V	48 V	
Range of operation	187 V ... 253 V	97 V ... 127 V	7 V ... 15 V	14 V ... 28 V	36 V ... 56 V	
Power consumption	12 W / 11 W	12 W / 11 W	2.4 W	2.4 W	2.6 W	

Airflow data:



Mechanical data:



Supplementary data:	AC	DC
Climatic data		
Operating temperature	-10 °C to +60 °C	-20 °C to +60 °C
Storage temperature	-20 °C to +70 °C	
Max. relative humidity	90%	
Protection rating	IP 43 (EN 60 529), when installed as specified, not for outdoor-application!	
Basic parts kit	standard filter, mounting- and user manual	
Accessories	radiant heater, fan heater, thermostat, see accessories	
Approvals	German Lloyd (GL)	
* Tolerance installation cutout	92 $\pm$ 1 -0	

Filterfan® PF2.000



PF2.000

For a broad range of applications in electronics as well as conventional switchgear installations; a wide range of operating voltages ensures universal usability.

- With integrated foamed seal to enclosure



System of protection



System of protection (see page 84)



Click & fit



UL-Approval



Colour

Airflow data:	PF 2.000
Filter material*	150 g/m ²
Unimpeded airflow	58 m ³ /h; 50 Hz / 65 m ³ /h; 60 Hz
Capacity** free-flow	19 W/K / 22 W/K
Airflow in combination (Filterfan® + Exhaust Filter)	43 m ³ /h; 50 Hz / 49 m ³ /h; 60 Hz (PF2.000 + PFA2.000)
Capacity** in combination (Filterfan® + Exhaust Filter)	14 W/K / 16 W/K (PF2.000 + PFA2.000)
Max. static pressure (Airflow = 0 m ³ /h)	61 Pa
Filtration efficiency	73%
Filter material grade (DIN 24 185)	EU 2
Noise level (DIN 45 635)	49 dB (A)
Duty cycle	100%

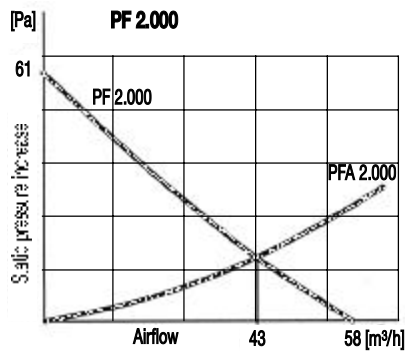
* Standard filter mat 150 g/m² (alternative filter mat in 350 g/m², 500 g/m²)

** based on 10 K difference in temperature

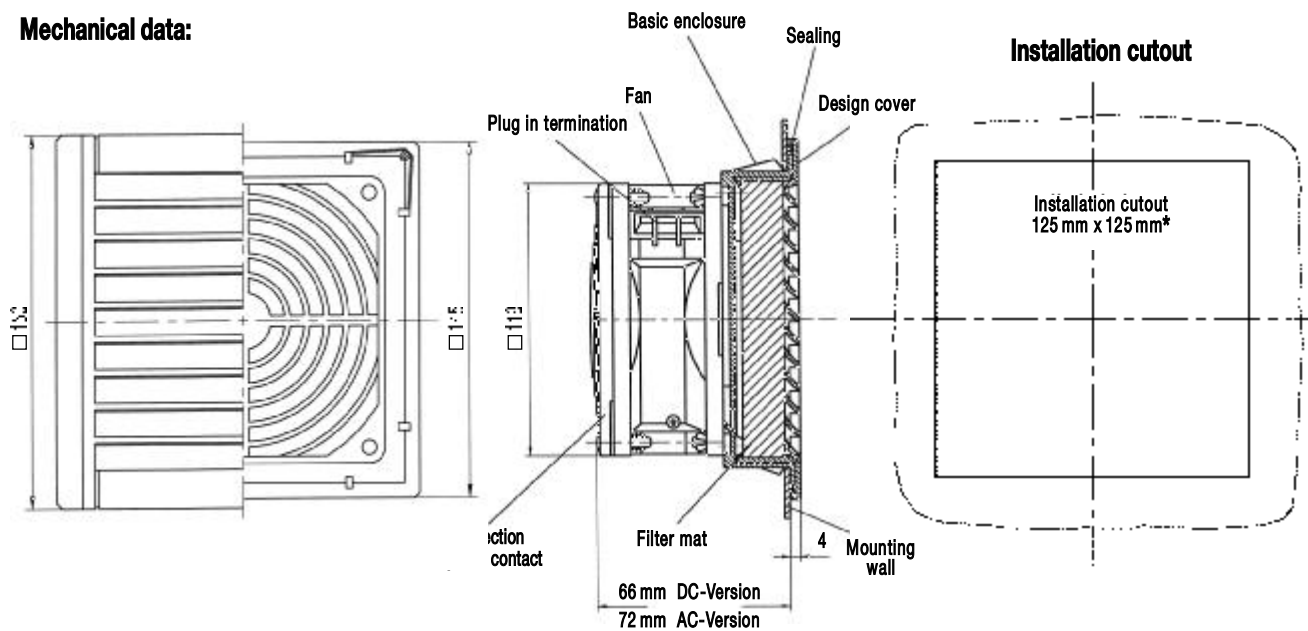
Technical data:	AC	PF 2.000	DC
Outside dimensions in mm (Height x Width x Installation depth)	150 x 150 x 72		150 x 150 x 66
Bearing type	sleeve bearings		ball bearings
Fitting position	horizontal – vertical		any
Construction	housing and guard of sprayed thermoplastic (ABS-FR) self-extinguishing, UL 94 VO		
Weight	0.735 kg		0.385 kg
Safety protection	in accordance with DIN 31 001		
Colour	RAL 7032 (European grey) or black; other colours on request		
Connections	terminal strip		2 wires, 310 mm long

Electrical data:	AC 50 Hz/60 Hz		PF 2.000			DC
Rated voltage	230 V	115 V	12 V	24 V	48 V	
Range of operation	187 V ... 253 V	97 V ... 127 V	6 V ... 14 V	18 V ... 30 V	36 V ... 56 V	
Power consumption	19 W / 18 W	20 W	5 W	5 W	5 W	

Airflow data:

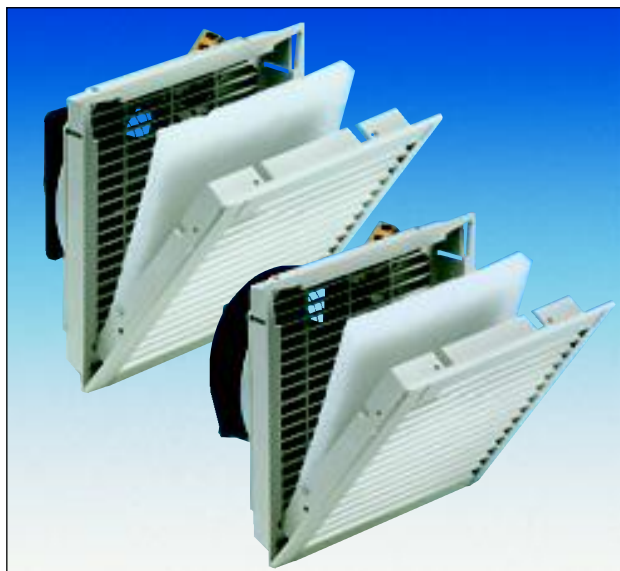


Mechanical data:



Supplementary data:	AC	DC
Climatic data		
Operating temperature	-10 °C to +55 °C	-20 °C to +55 °C
Storage temperature	-20 °C to +70 °C	
Max. relative humidity	90%	
Protection rating	IP 54 (EN 60529), when installed as specified, not for outdoor-application!	
Basic parts kit	standard filter, mounting- and user manual	
Accessories	radiant heater, fan heater, thermostat, see accessories	
* Tolerance installation cutout	125 $\pm$ 1 thickness of material to 2 mm 126 $\pm$ 1 thickness of material > 2 mm < 3 mm	

Filterfan® PF2.500, PF3.000



PF 2.500

For medium range applications in plant and machine equipment.

PF 3.000

The same size PF2.500 but with a more powerful fan.

- With integrated foamed seal to enclosure (PF 2.500, PF 3.000)



System of protection



System of protection (see page 64)



AC



DC



Click & fit



Output compatibility



Germanischer Lloyd certified (PF 3000)



UL-Approval granted/applied for



Colour

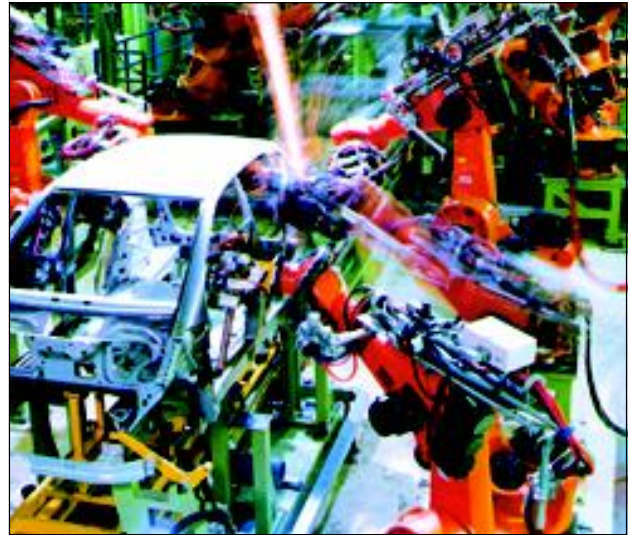
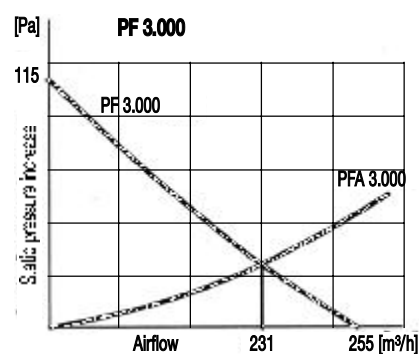
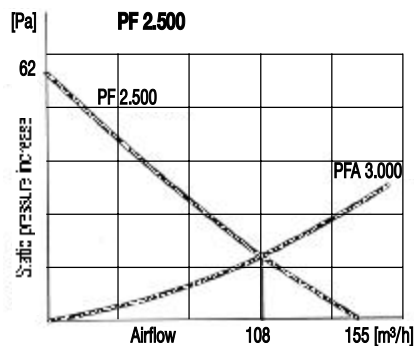
Airflow data:	PF 2.500	PF 3.000
Filter material*	150 g/m ²	150 g/m ²
Unimpeded airflow	155 m ³ /h; 50 Hz / 170 m ³ /h; 60 Hz	255 m ³ /h; 50 Hz / 292 m ³ /h; 60 Hz
Capacity** free-flow	52 W/K / 57 W/K	85 W/K / 97 W/K
Airflow in combination (Filterfan® + Exhaust Filter)	108 m ³ /h; 50 Hz / 118 m ³ /h; 60 Hz (PF 2.500 + PFA 3.000)	231 m ³ /h; 50 Hz / 265 m ³ /h; 60 Hz (PF 3.000 + PFA 3.000)
Capacity** in combination (Filterfan® + Exhaust Filter)	36 W/K / 39 W/K (PF 2.500 + PFA 3.000)	77 W/K / 88 W/K (PF 3.000 + PFA 3.000)
Max. static pressure (Airflow = 0 m ³ /h)	62 Pa	115 Pa
Filtration efficiency	73%	
Filter material grade (DIN 24 185)	EU 2	
Noise level (DIN 45 635)	53 dB (A)	55 dB (A)
Duty cycle	100%	

* Standard filter mat 150 g/m² (alternating filter mat in 350 g/m², 500 g/m²) ** based on 10 K difference in temperature

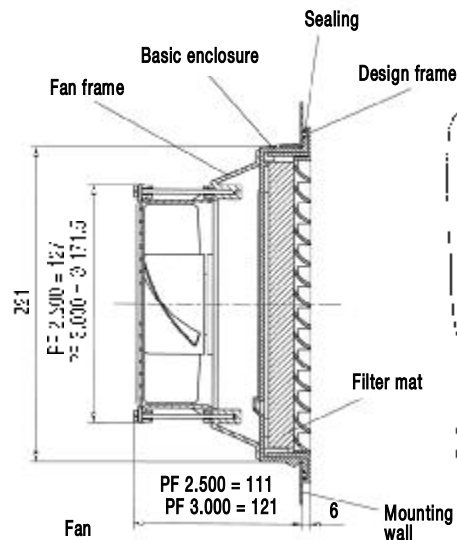
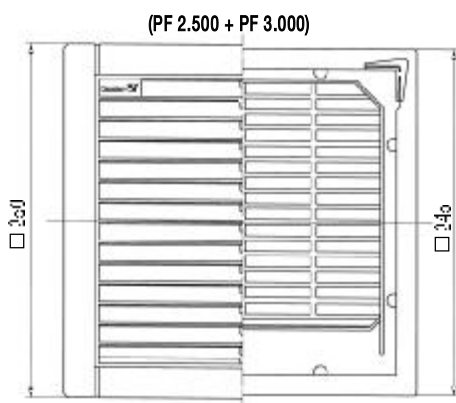
Technical data:	PF 2.500 AC/DC	AC	PF 3.000 DC
Outside dimensions in mm (Height x Width x Installation depth)	250 x 250 x 111	250 x 250 x 121	
Bearing type	ball bearings		
Fitting position	any, horizontal airflow preferred		
Construction	housing and guard of sprayed thermoplastic (ABS-FR) self-extinguishing, UL 94 VO		
Weight	1.75 kg	1.75 kg	1,50 kg
Safety protection	in accordance with DIN 31 001		
Colour	RAL7032 (European grey) or black; other colours on request		
Connections	terminal strip		

Electrical data:	PF 2.500			PF 3.000		
	AC 50 Hz/60 Hz		DC	AC 50 Hz/60 Hz		DC
Rated voltage	230 V	115 V	12 V	400 V / 440 V	230 V	115 V
Range of operation	187 V ... 253 V	97 V ... 127 V	8 V ... 14 V	369 V ... 484 V	187 V ... 253 V	97 V ... 127 V
Power consumption	18 W / 17 W	18 W / 17 W	5 W	41 W / 38 W	45 W / 39 W	40 W
Rated voltage			12 V			12 V
Range of operation			18 V ... 30 V			18 V ... 30 V
Power consumption			4.7 W			18 W
Rated voltage			24 V			24 V
Range of operation			36 V ... 56 V			36 V ... 56 V
Power consumption			4.6 W			17 W

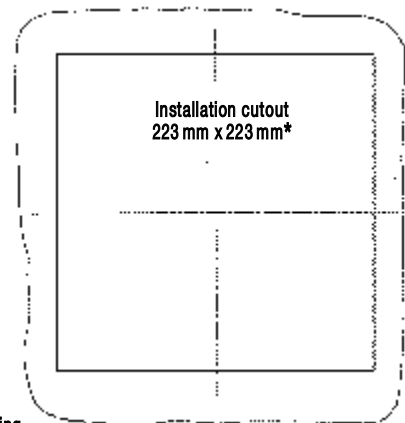
Airflow data:



Mechanical data:



Installation cutout



Supplementary data:	AC	DC
Climatic data		
Operating temperature	-10 °C to +55 °C	-20 °C to +55 °C
Storage temperature	-20 °C to +70 °C	
Max. relative humidity	90%	
Protection rating	IP 54 (EN 60 529), when installed as specified, not for outdoor-application!	
Basic parts kit	standard filter, mounting- and user manual	
Accessories	radiant heater, fan heater, thermostat, see accessories	
Approvals	PF3.000 German Lloyd (GL)	
* Tolerance installation cutout	223 $\pm$ 1 thickness of material to 2 mm 224 $\pm$ 1 thickness of material > 2 mm $\pm$ 3 mm	