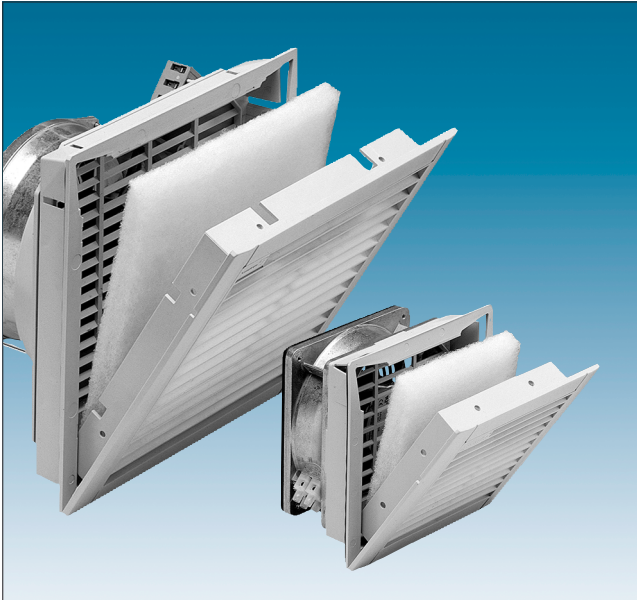


# Filterfans®



- Patented “Click & Fit” design provides a hardware free installation!
- Poured-in foam gasket allows for quick NEMA 12 sealing against the enclosure (except PF 1000)
- Plastic made from strong (ABS-FR), self-extinguishing (UL 94 VO) material
- Black and Beige grills available on all NEMA 12 models
- Terminal Strips built-on (except PF 1000)



NEMA Rating



Approvals



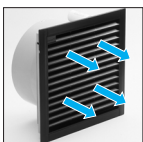
Mounting

Air Flow data:	PF 1000	PF 2000	PF 2500	PF 3000	PF 5000	PF 6000	PF 7000
Free flow air delivery (CFM <sup>2</sup> )	16	38	89	169	324	410	506
Air delivery w/ exhaust (CFM <sup>2</sup> )	10	28	62	142	249	295	368
Max. static pressure (PA)	29	69	57	89	205	225	174
Filter density (g/m <sup>2</sup> )	150						
Filtration efficiency	73						
Noise level	39	49	53	55	69	71	76
Ambient temperature °F (Max/Min)	140/14	122/14	122/14	122/14	122/14	122/14	122/14
Max. relative humidity (rH)	90%						
Duty cycle	100%						

Electrical data:	PF 1000	PF 2000	PF 2500	PF 3000	PF 5000	PF 6000	PF 7000
Rated voltage	115V / 230V / 24vdc				115V / 230V		
Rated frequency	50/60Hz (Fan CFM based on 115V 60Hz performance)						
Power consumption	12 Watts	19 Watts	18 Watts	43 Watts	63 Watts	122 Watts	167 Watts
Current draw (Amps)	0.15/0.08/0.1 A	0.25/0.13/0.24 A	0.25/0.13/0.24 A	0.5/0.25/0.5 A	0.7/0.35 A	1.7/0.8 A	1.5/0.7 A
Connection Method	Terminal strip						

Supplementary data:	PF 1000	PF 2000	PF 2500	PF 3000	PF 5000	PF 6000	PF 7000
Weight (without packaging)	1.21 lbs	1.62 lbs	3.8 lbs	4.0 lbs	6.6 lbs	7.7 lbs	9.0 lbs
Outside dimensions	105 x 105 x 52	150 x 150 x 72	250 x 250 x 111	250 x 250 x 121	325 x 325 x 157	325 x 325 x 158	325 x 325 x 125
Bearing type	sleeve bearings			ball bearings			
Construction material	sprayed thermoplastic (ABS-FR), self-extinguishing UL 94 VO						
Standard Colors	RAL 9011 (black) or RAL 7032 (beige)						
Climatic data	max. ambient temperature +131°F (+55°C) min. ambient temperature +46°F (+8°C)						
NEMA Rating / Ingress protection	NEMA 1 / IP 43			NEMA 12 / IP 54			

## Consult Factory for More Special Style Filterfans Including:



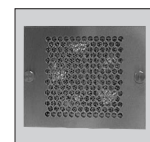
Reverse Flow - PF xxxx "A" Models



Low EMC Versions (PF 2000 - PF 6000)



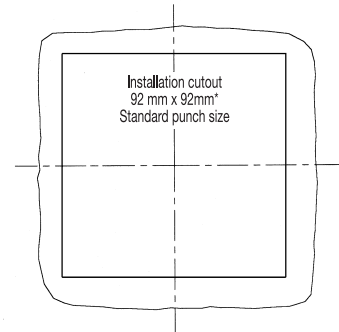
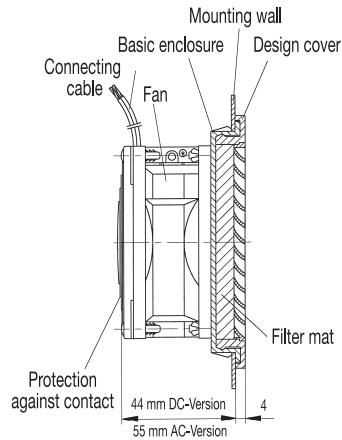
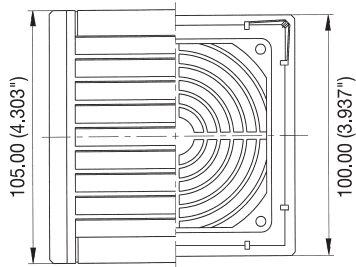
IP 55 Versions (PF 2000 - PF 7000)



Traditional Metal Box Fans

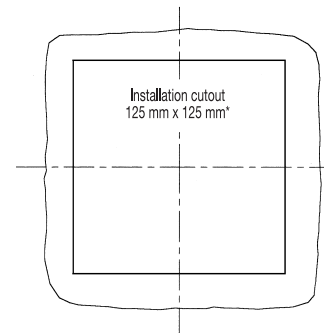
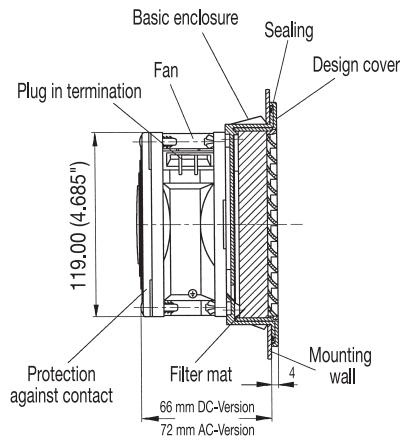
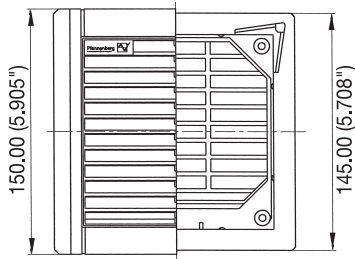
**Mechanical data:**

**PF 1000**



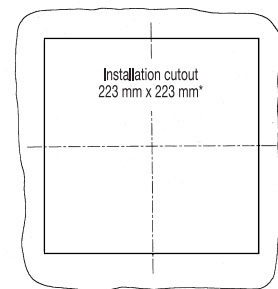
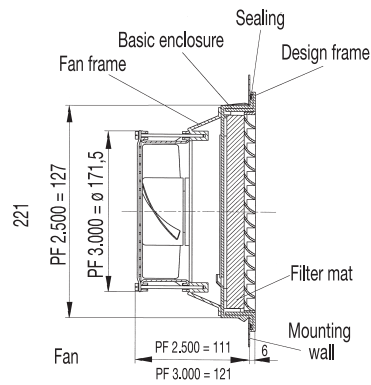
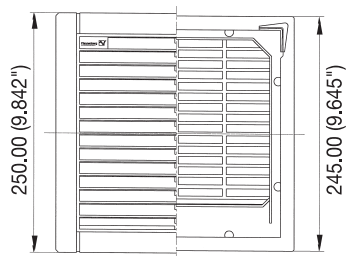
**Installation cutout**

**PF 2000**



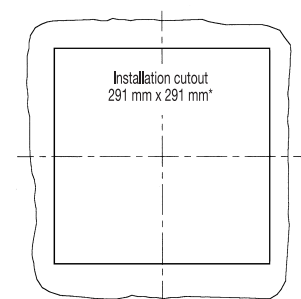
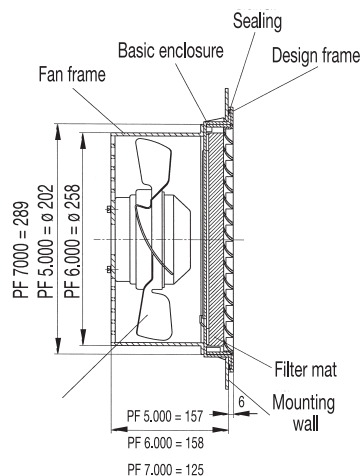
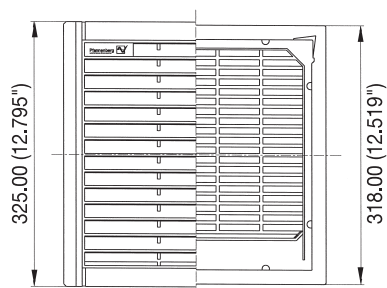
**Installation cutout**

**PF 2500 & 3000**



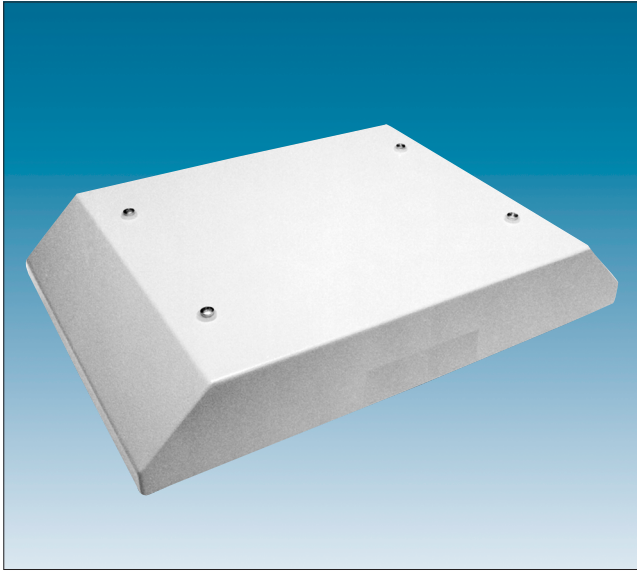
**Installation cutout**

**PF 5000, 6000 & 7000**



**Installation cutout**

# Top Mount Filterfans®



- Provides high airflow for proper air circulation
- The fan pulls air through the enclosure vertically to cool the equipment inside while removing warm air directly from the upper area of the enclosure.
- Low, compact 4" profile.
- Utilizes PFA 5/6000 exhaust filters as intake louvers
- Global Approvals
- Pagoda style to match modular enclosure systems

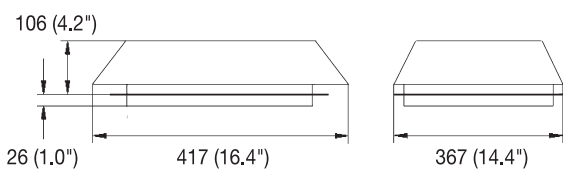


Air Flow data:	PTF 4000	PTF 8000
Free flow air delivery (CFM <sup>2</sup> )	304	542
Air delivery w/ exhaust (CFM <sup>3</sup> )	234	366
Max. static pressure (PA)	223	380
Noise level	61	71
Ambient temperature °F (Max/Min)	122/14	122/14
Max. relative humidity (rH)	90%	
Duty cycle	100%	

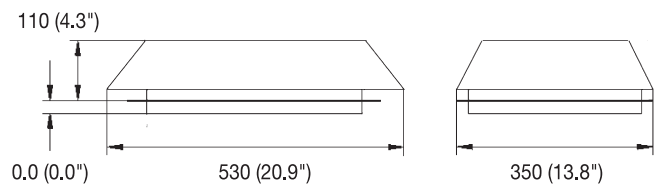
Electrical data:	PTF 4000	PTF 8000
Rated voltage	115V / 230V	115V / 230V
Rated frequency	50/60Hz (Fan CFM based on 115V 60Hz performance)	
Power consumption	40 Watts	95 Watts
Current draw	0.4A / 0.2A	0.8A / 0.4A
Connection Method	Terminal strip	

Supplementary data:	PTF 4000	PTF 8000
Weight (without packaging)	15 lbs (6.8 kg)	19lbs (6.5 kg)
Outside dimensions (mm)	106 x 417 x 367	110 x 530 x 350
Bearing type	ball bearing	
Construction material	sprayed thermoplastic (ABS-FR), self-extinguishing UL 94 VO	
Standard Colors	RAL 7032 (beige)	
Climatic data	max. ambient temperature +131°F (+55°C) min. ambient temperature +46°F (+8°C)	
NEMA Rating / Ingress protection	NEMA 1/ IP 43	

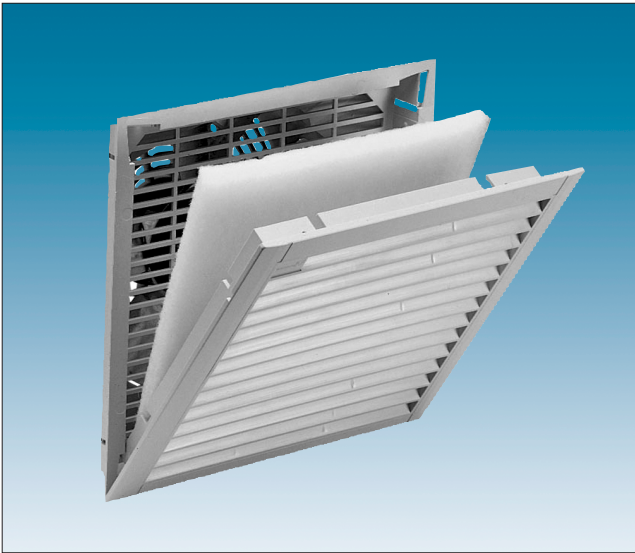
PTF 4000



PTF 8000



# Exhaust Filters

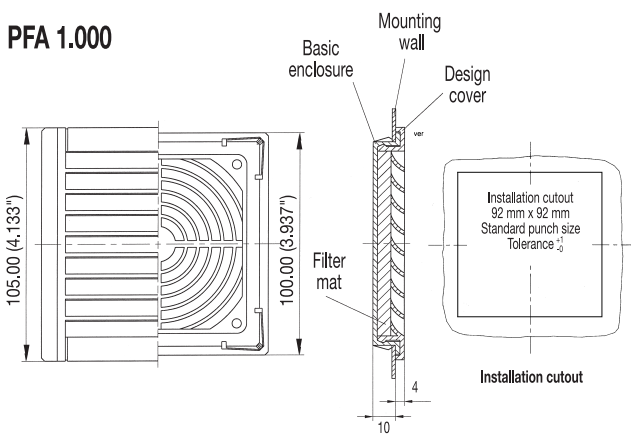


- Patented “Click & Fit” design provides a hardware free installation!
- Poured-in foam gasket allows for quick NEMA 12 sealing against the enclosure (except PF 1000)
- Plastic made from strong (ABS-FR), self-extinguishing (UL 94 VO) material
- Black and Beige grills available on all NEMA 12 models

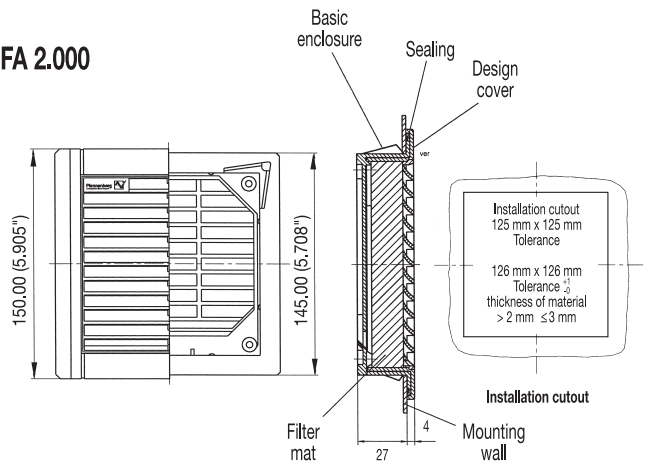


Technical data:	PFA 1000	PFA 2000	PFA 25/3000	PFA 5/6000
Filter density (g/m <sup>2</sup> )	150	150	150	150
Filtration efficiency	73%	73%	73%	73%
Outside Dimensions (mm)	105 x 105 x 10	150 x 150 x 27	250 x 250 x 30	325 x 325 x 30
Construction Material	sprayed thermoplastic (ABS-FR), self-extinguishing UL 94 VO			
Standard Colors	RAL 9011 (black) or RAL 7032 (beige)			
NEMA Rating	NEMA 1/ IP 43	NEMA 12 / IP 54		

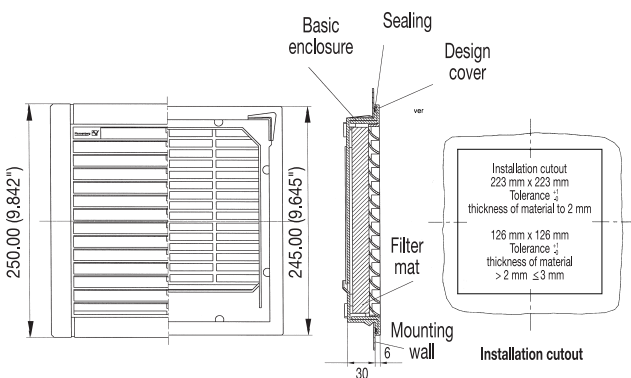
**PFA 1.000**



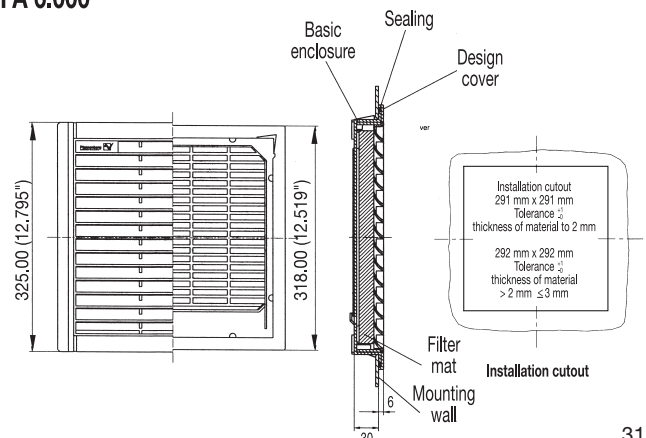
**PFA 2.000**



**PFA 3.000**



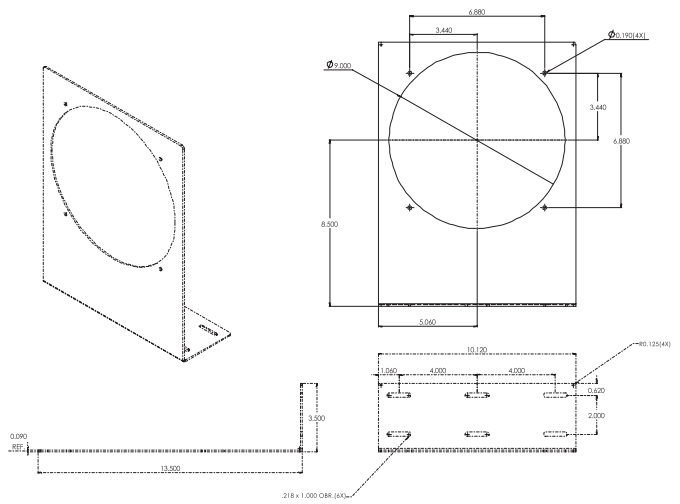
**PFA 6.000**



# Panel Fans



- Used to help cooling units to circulate air inside enclosures
- High airflow with quiet operation makes these versatile cooling fans very popular in a wide range of applications.
- Reliable cooling is achieved particularly in areas with minimum space requirements.
- UL Components Recognized.
- CSA Certified Components.

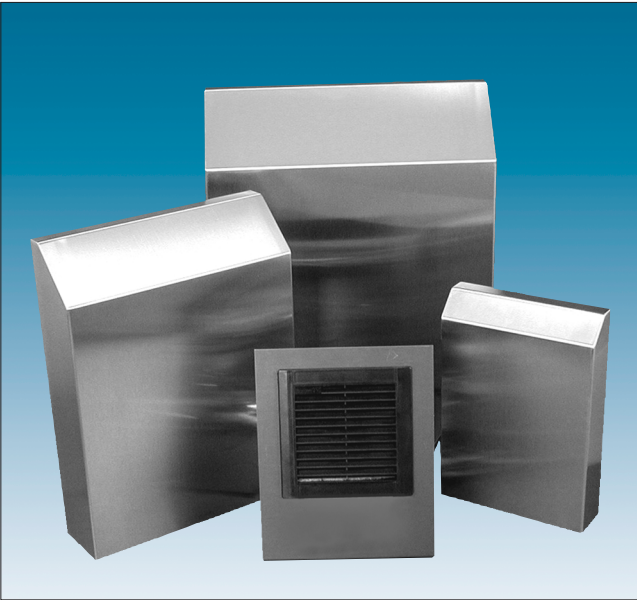


Air Flow data:	PFP 100	PFP 200	PFP 500
Free flow air delivery (CFM <sup>2</sup> )	106	230	550
Ambient temperature °F (Max/Min)	122/14	122/14	122/14
Max. relative humidity (rH)		90%	
Duty cycle		100%	

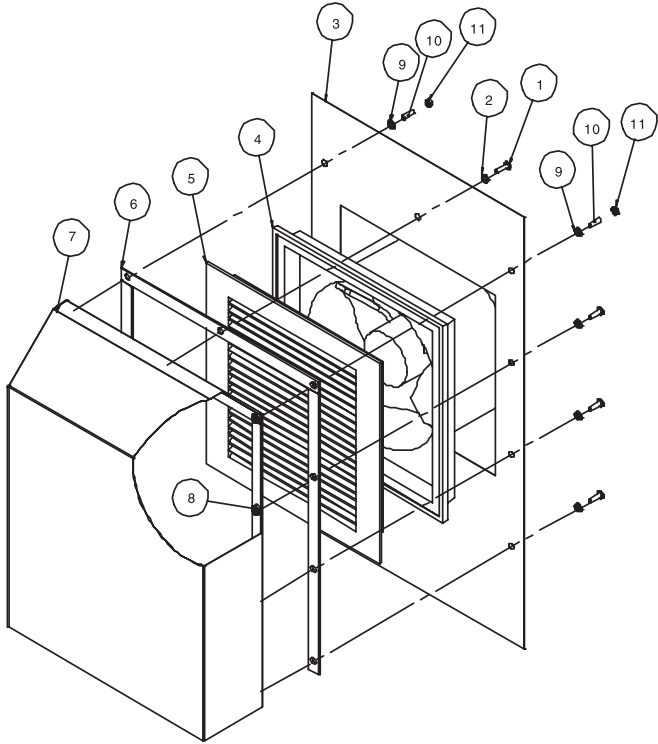
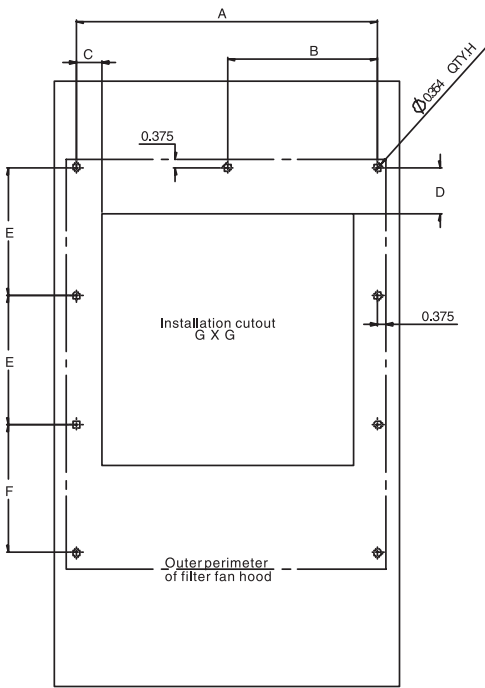
Electrical data:	PFP 100	PFP 200	PFP 500
Rated voltage	115V / 230V	115V / 230V	115V / 230V
Rated frequency	50/60Hz (Fan CFM based on 115V 60Hz performance)		
Power consumption	18 Watts	24 Watts	60 Watts
Current draw	0.18A / 0.09A	0.29A / 0.15A	0.5A / 0.25A
Connection Method	Power Cable		

Supplementary data:	PFP 100	PFP 200	PFP 500
Weight (without packaging)	1.2 lbs	2.0 lbs	4.4 lbs
Bracket model No.	PFP-BK 100	PFP-BK 200	PFP-BK 500
Finger guard model No.	PFP-FG 100	PFP-FG 200	PFP-FG 500
Standard supply includes	1 finger guard, power cable and mounting hardware (no bracket supplied)		

# NEMA 3R Filterfan® Rainhoods



- NEMA 3R / Outdoor Rainhoods for Standard Filterfans
- Fits sizes PF 2000, PF 25/3000 & PF 5/6000 Units
- 304 Stainless Steel Design for use on Washdown NEMA 4X enclosures
- Due to dust protection regulations, NEMA 4/4X rating on these systems is not possible



MODEL	A	B	C	D	E	F	G	H
PF-RH-2000	6.85	N/A	0.97	1.48	4.75	N/A	4.92	6
PF-RH-25/3000	10.79	5.39	1.00	2.50	6.82	N/A	8.78	7
PF-RH-5/6000	13.74	6.87	1.14	2.15	5.86	5.86	11.45	9





# Filterfans





































- Patented "Click & Fit" design provides a hardware free installation!
- Poured-in foam gasket allows for quick NEMA 12 sealing against the enclosure
- Plastic made from strong (ABS-FR), self-extinguishing (UL 94 VO) material
- Black and Beige grills available on all NEMA 12 models
- Terminal Strips built-on







## Technical Data

Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>Standard Filter Fans</b>								
PF 1000	11020152050	Click & Fit	16	115 VAC	IP 43	Black Grill		
PF 1000	11020152000	Click & Fit	16	115 VAC	IP 43	Beige Grill		
PF 1000	11020152055	Click & Fit	16	115 VAC	IP 43	Lt Gray Grill		
PF 1000	11020102050	Click & Fit	16	230 VAC	IP 43	Black Grill		
PF 1000	11020102000	Click & Fit	16	230 VAC	IP 43	Beige Grill		
PF 1000	11020102055	Click & Fit	16	230 VAC	IP 43	Lt Gray Grill		
PF 1000	11020802050	Click & Fit	16	24 VDC	IP 43	Black Grill		
PF 1000	11020802000	Click & Fit	16	24 VDC	IP 43	Beige Grill		
PF 1000	11020802055	Click & Fit	16	24 VDC	IP 43	Lt Gray Grill		
PFG 1000 Gasket	18101020000	Optional Gasket	N/A	N/A	IP 54	N/A		
PF 2000	11025152050	Click & Fit	38	115 VAC	NEMA 12/IP 54	Black Grill		
PF 2000	11025152000	Click & Fit	38	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 2000	11025152055	Click & Fit	38	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 2000	11025102050	Click & Fit	38	230 VAC	NEMA 12/IP 54	Black Grill		



PF 2000	11025102000	Click & Fit	38	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 2000	11025102055	Click & Fit	38	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 2000	11025802050	Click & Fit	38	24 VDC	NEMA 12/IP 54	Black Grill		
PF 2000	11025802000	Click & Fit	38	24 VDC	NEMA 12/IP 54	Beige Grill		
PF 2000	11025802055	Click & Fit	38	24 VDC	NEMA 12/IP 54	Lt Gray Grill		
PF 2500	11027152050	Click & Fit	89	115 VAC	NEMA 12/IP 54	Black Grill		
PF 2500	11027152000	Click & Fit	89	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 2500	11027152055	Click & Fit	89	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 2500	11027102050	Click & Fit	89	230 VAC	NEMA 12/IP 54	Black Grill		
PF 2500	11027102000	Click & Fit	89	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 2500	11027102055	Click & Fit	89	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 3000	11030152050	Click & Fit	169	115 VAC	NEMA 12/IP 54	Black Grill		
PF 3000	11030152000	Click & Fit	169	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 3000	11030152055	Click & Fit	169	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 3000	11030102050	Click & Fit	169	230 VAC	NEMA 12/IP 54	Black Grill		
PF 3000	11030102000	Click & Fit	169	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 3000	11030102055	Click & Fit	169	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 3000	11030802050	Click & Fit	169	24 VDC	NEMA 12/IP 54	Black Grill		
PF 3000	11030802000	Click & Fit	169	24 VDC	NEMA 12/IP 54	Beige Grill		
PF 3000	11030802055	Click & Fit	169	24 VDC	NEMA 12/IP 54	Lt Gray Grill		
PF 4000	11035152050	Click & Fit	215	115 VAC	N/A	Black Grill		
PF 4000	11035152000	Click & Fit	215	115 VAC	N/A	Beige Grill		
PF 4000	11035152055	Click & Fit	215	115 VAC	N/A	Lt Gray Grill		
PF 5000	11040152050	Click & Fit	324	115 VAC	NEMA 12/IP 54	Black Grill		
PF 5000	11040152000	Click & Fit	324	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 5000	11040152055	Click & Fit	324	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 5000	11040102050	Click & Fit	324	230 VAC	NEMA 12/IP 54	Black Grill		
PF 5000	11040102000	Click & Fit	324	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 5000	11040102055	Click & Fit	324	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 5000A	11040152053	Click & Fit	324	115 VAC	NEMA 12/IP 54	Black Grill		

PF 5000A	11040152030	Click & Fit	324	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 5000A	11040152054	Click & Fit	324	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 5000A	11040102053	Click & Fit	324	230 VAC	NEMA 12/IP 54	Black Grill		
PF 5000A	11040102030	Click & Fit	324	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 5000A	11040102054	Click & Fit	324	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 6000	11045152050	Click & Fit	410	115 VAC	NEMA 12/IP 54	Black Grill		
PF 6000	11045152000	Click & Fit	410	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 6000	11045152055	Click & Fit	410	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 6000	11045102050	Click & Fit	410	230 VAC	NEMA 12/IP 54	Black Grill		
PF 6000	11045102000	Click & Fit	410	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 6000	11045102055	Click & Fit	410	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 6000A	11045152053	Click & Fit	410	115 VAC	NEMA 12/IP 54	Black Grill		
PF 6000A	11045152030	Click & Fit	410	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 6000A	11045152054	Click & Fit	410	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 6000A	11045102053	Click & Fit	410	230 VAC	NEMA 12/IP 54	Black Grill		
PF 6000A	11045102030	Click & Fit	410	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 6000A	11045102054	Click & Fit	410	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 7000	11047152050	Click & Fit	506	115 VAC	NEMA 12/IP 54	Black Grill		
PF 7000	11047152000	Click & Fit	506	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 7000	11047152055	Click & Fit	506	115 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 7000	11047102050	Click & Fit	506	230 VAC	NEMA 12/IP 54	Black Grill		
PF 7000	11047102000	Click & Fit	506	230 VAC	NEMA 12/IP 54	Beige Grill		
PF 7000	11047102055	Click & Fit	506	230 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 7000	11047032050	Click & Fit	506	460 VAC	NEMA 12/IP 54	Black Grill		
PF 7000	11047032000	Click & Fit	506	460 VAC	NEMA 12/IP 54	Beige Grill		
PF 7000	11047032055	Click & Fit	506	460 VAC	NEMA 12/IP 54	Lt Gray Grill		
PF 7000A	11047152053	Click & Fit	506	115 VAC	NEMA 12/IP 54	Black Grill		
PF 7000A	11047152030	Click & Fit	506	115 VAC	NEMA 12/IP 54	Beige Grill		
PF 7000A	11047152054	Click & Fit	506	115 VAC	NEMA 12/IP 54	Lt Gray Grill		

PF 7000A	11047102053	Click & Fit	506	230 VAC	NEMA 12/IP 54	Black Grill	
PF 7000A	11047102030	Click & Fit	506	230 VAC	NEMA 12/IP 54	Beige Grill	
PF 7000A	11047102054	Click & Fit	506	230 VAC	NEMA 12/IP 54	Lt Gray Grill	
PF 7000A	11047032053	Click & Fit	506	460 VAC	NEMA 12/IP 54	Black Grill	
PF 7000A	11047032030	Click & Fit	506	460 VAC	NEMA 12/IP 54	Beige Grill	
PF 7000A	11047032054	Click & Fit	506	460 VAC	NEMA 12/IP 54	Lt Gray Grill	









Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
-------	----------	----------	------	---------	-------	-------	---------	--------






#### Standard Exhaust Filters



PFA 1000	11120002050	Click & Fit	N/A	N/A	NEMA 1/ IP 43	Black Grill		
PFA 1000	11120002000	Click & Fit	N/A	N/A	NEMA 1/ IP 43	Beige Grill		
PFA 1000	11120002054	Click & Fit	N/A	N/A	NEMA 1/ IP 43	Lt Gray Grill		
PFG 1000 Gasket	18101020000	Optional Gasket	N/A	N/A	IP 54			
PFA 2000	11125002050	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Black Grill		
PFA 2000	11125002000	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Beige Grill		
PFA 2000	11125002054	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Lt Gray Grill		
PFA 25/3000	11135002050	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Black Grill		
PFA 25/3000	11135002000	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Beige Grill		
PFA 25/3000	11135002054	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Lt Gray Grill		
PFA 5/6/7000	11145002050	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Black Grill		
PFA 5/6/7000	11145002000	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Beige Grill		
PFA 5/6/7000	11145002054	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Lt Gray Grill		

Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
-------	----------	----------	------	---------	-------	-------	---------	--------

#### Filter Fans IP55/UV




PF 2000 IP55/UV	11026159000	Click & Fit	18	115 VAC	IP 55 / UV	Beige Grill	
PF 2000 IP55/UV	11026109000	Click & Fit	18	230 VAC	IP 55 / UV	Beige Grill	
PF 2500 IP55/UV	11028159000	Click & Fit	60	115 VAC	IP 55 / UV	Beige Grill	
PF 2500 IP55/UV	11028109000	Click & Fit	60	230 VAC	IP 55 / UV	Beige Grill	
PF 3000 IP55/UV	11031159000	Click & Fit	94	115 VAC	IP 55 / UV	Beige Grill	
PF 3000 IP55/UV	11031109000	Click & Fit	94	230 VAC	IP 55 / UV	Beige Grill	
PF 5000 IP55/UV	11041159000	Click & Fit	219	115 VAC	IP 55 / UV	Beige Grill	
PF 5000 IP55/UV	11041109000	Click & Fit	219	230 VAC	IP 55 / UV	Beige Grill	

PF 6000 IP55/UV	11046159000	Click & Fit	236	115 VAC	IP 55 / UV	Beige Grill		
PF 6000 IP55/UV	11046109000	Click & Fit	236	230 VAC	IP 55 / UV	Beige Grill		
Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>Exhaust Filters IP55/UV Resistant</b>								
PFA 2000 IP55/UV	11126009000	Click & Fit	N/A	N/A	IP 55 / UV	Beige Grill		
PFA 25/3000 IP55/UV	11136009000	Click & Fit	N/A	N/A	IP 55 / UV	Beige Grill		
PFA 5/6000 IP55/UV	11146009000	Click & Fit	N/A	N/A	IP 55 / UV	Beige Grill		
Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>EMC Filter Fans</b>								
PF 2000 EMC	11270152000	Click & Fit		115 VAC	NEMA 12	Beige Grill		
PF 3000 EMC	11272152000	Click & Fit		115 VAC	NEMA 12	Beige Grill		
PF 6000 EMC	11274152000	Click & Fit		115 VAC	NEMA 12	Beige Grill		
Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>EMC Exhaust Filters</b>								
PFA 2000 EMC	11370002000	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Beige Grill		
PFA 3000 EMC	11372002000	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Beige Grill		
PFA 6000 EMC	11374002000	Click & Fit	N/A	N/A	NEMA 12 / IP 54	Beige Grill		
Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>Slimline Filterfans</b>								
PF 3000 SL	11053152110	Click & Fit	82	115 VAC		Beige Grill		
PF 6000 SL2	11056152100	Click & Fit	152	115 VAC		Beige Grill		
PF 6000 SL2	11056102100	Click & Fit	152	230 VAC		Beige Grill		
Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>Top Mount Filterfans</b>								
PTF 4000	11084151000	Top Mount	304	115 VAC	NEMA 12 / IP 43	Beige Grill		
PTF 4000	11084101000	Top Mount	304	230 VAC	NEMA 12 / IP 43	Beige Grill		
PTF 8000	11080151000	Top Mount	542	115 VAC	NEMA 12 / IP 43	Beige Grill		
PTF 8000	11080101000	Top Mount	542	230 VAC	NEMA 12 / IP 43	Beige Grill		
Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
<b>Box Fans</b>								
PFB 100	11461152000	Screw		115 VAC		304 SS Grill		
PFB 100	11461102000	Screw		230 VAC		304 SS Grill		
PFB 200	11462152000	Screw		115 VAC		304 SS Grill		
PFB 200	11462102000	Screw		230 VAC		304 SS Grill		

PFB 500	11463152000	Screw		115 VAC		304 SS Grill	
PFB 500	11463102000	Screw		230 VAC		304 SS Grill	

Model	Part No.	Mounting	CFM*	Voltage	Rated	Color	Drawing	Manual
-------	----------	----------	------	---------	-------	-------	---------	--------

**Box Fan Exhaust Filters**

PFBE 100	11561002000	Screw	N/A	N/A		304 SS	
PFBE 200	11562002000	Screw	N/A	N/A		304 SS	
PFBE 500	11563002000	Screw	N/A	N/A		304 SS	

## **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [pfannenberg](#) manufacturer:*

Other Similar products are found below :

[PF43.000 \(230V\)](#) [11720001055](#)