
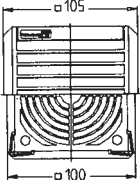
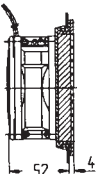

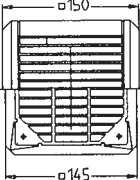
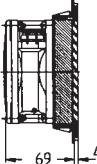

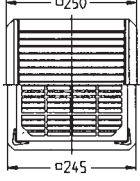
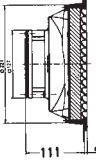

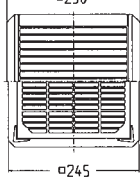
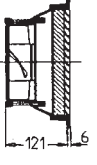
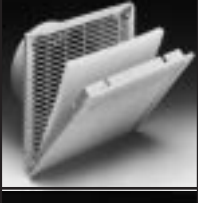
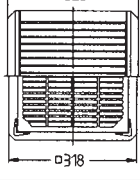
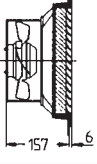

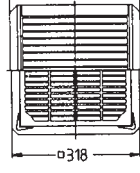
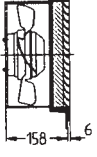


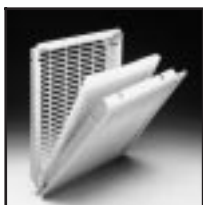
Superplanar filter fans – Model PF

			Type	Voltage	Consumption	Air delivery		Cutout for assembly (in mm)
						free-flow	in combination PF+ PFA	
			PF 1.000	230 V AC 115 V AC	11 VA 11 VA	24 m³/h	15 m³/h	92 x 92
				12 V DC 24 V DC 48 V DC	2,4 W 2,4 W 2,6 W	15 m³/h	13 m³/h	
			PF 2.000	230 V AC 115 V AC	18 VA 20 VA	56 m³/h	42 m³/h	125 x 125
				12 V DC 24 V DC 48 V DC	4,5 W 4,5 W 5,0 W			
			PF 2.500	230 V AC 115 V AC	18 VA 20 VA	131 m³/h	95 m³/h	223 x 223
			PF 3.000	230 V AC 115 V AC	48 VA 43 VA	249 m³/h	210 m³/h	223 x 223
				12 V DC 24 V DC 48 V DC	14 W 14 W 14 W			
			PF 5.000	230 V AC 115 V AC	56 VA 56 VA	461 m³/h	350 m³/h	291 x 291
			PF 6.000	400 V AC 3 Phasen	155 VA	625 m³/h	450 m³/h	291 x 291
				230 V AC 115 V AC	155 VA 155 VA			



... „click and fit“ –

patented quick-action fixing system for rapid exhaust filter installation without screws




Superplanar exhaust filters Model PFA

Type	Dimensions	Cutout for assembly (in mm)
PFA 1.000	105 mm x 105 mm x 14 mm	92 x 92
PFA 2.000	150 mm x 150 mm x 28 mm	125 x 125
PFA 3.000	250 mm x 250 mm x 35,8 mm	223 x 223
PFA 5.000 PFA 6.000	325 mm x 325 mm x 36 mm	291 x 291

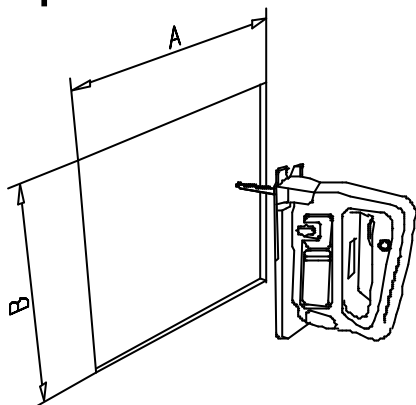
General technical data

Filtering level of filter mat: 83 %
 PF/PFA 1.000: 67 %
 Grade of filter mat: EU3 (DIN 24 185)
 Electric shock protection as DIN 31 001
 Duty cycle: 100 %
 Voltage fluctuation: ± 10 %
 Mains frequency: suitable for 50/60 Hz
 Operating temperature: -10°C to +50°C
 Storage temperature: -20°C to +70°C
 Relative humidity: 90 %
 Colour: similar to RAL 7032 (light grey),
 other colours on request

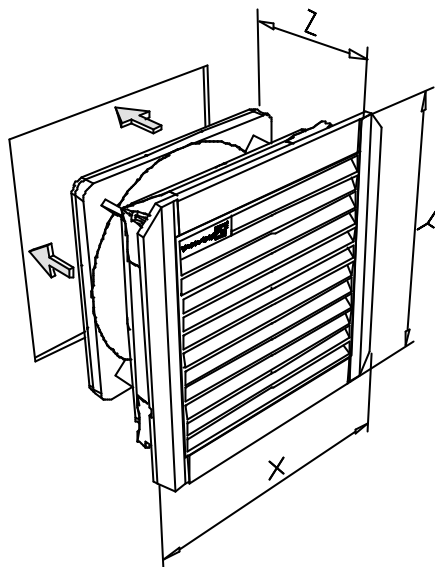
Material: ABS-FR
 PF/PFA 1.000: polycarbonate (PC-FR)
 Protective system (DIN 40 050):
 PF/PFA 1.000: IP43
 PF/PFA 2.000 to PF/PFA 6.000: IP 54
 Accessories: rubber seals, thermostat
 Approvals:
 "Germanischer Lloyd"
 PF 1.000/PFA 1.000
 PF 3.000/PFA 3.000
 PF 3.000/PFA 3.000







1

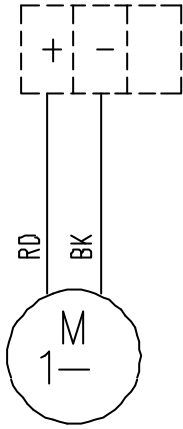


2

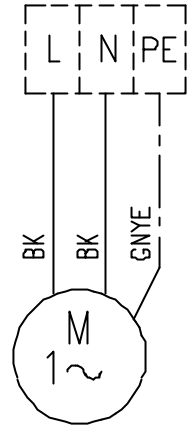


	A+1	B+1	X	Y	Z		 Kg	
					-	~	-	~
PF 1000	92(3 ⁵ / ₈)	92(3 ⁵ / ₈)	105(4 ¹ / ₈)	105(4 ¹ / ₈)	48(1 ⁵⁷ / ₆₄)	56(2 ¹³ / ₆₄)	0,45	0,60
PF 2000	125(4 ³⁹ / ₆₄)	125(4 ³⁹ / ₆₄)	150(5 ⁷ / ₈)	150(5 ⁷ / ₈)	67(2 ⁴¹ / ₆₄)	73(2 ⁷ / ₈)	0,39	0,74
PF 2500	223(8 ²⁵ / ₃₂)	223(8 ²⁵ / ₃₂)	250(9 ²⁷ / ₃₂)	250(9 ²⁷ / ₃₂)	117(4 ³⁹ / ₆₄)	117(4 ³⁹ / ₆₄)	1,50	1,75
PF 3000	223(8 ²⁵ / ₃₂)	223(8 ²⁵ / ₃₂)	250(9 ²⁷ / ₃₂)	250(9 ²⁷ / ₃₂)	127(5)	127(5)	1,50	1,75
PF 4000	223(8 ²⁵ / ₃₂)	223(8 ²⁵ / ₃₂)	250(9 ²⁷ / ₃₂)	250(9 ²⁷ / ₃₂)	-	133(5 ¹⁵ / ₆₄)	-	3,0
PF 5000	291(11 ²⁹ / ₆₄)	291(11 ²⁹ / ₆₄)	325(12 ⁵¹ / ₆₄)	325(12 ⁵¹ / ₆₄)	-	163(6 ²⁷ / ₆₄)	-	3,0
PF 6000	291(11 ²⁹ / ₆₄)	291(11 ²⁹ / ₆₄)	325(12 ⁵¹ / ₆₄)	325(12 ⁵¹ / ₆₄)	-	164(6 ²⁹ / ₆₄)	-	3,0
	A+1	B+1	X	Y	Z		 Kg	
PFA 1000	92(3 ⁵ / ₈)	92(3 ⁵ / ₈)	105(4 ¹ / ₈)	105(4 ¹ / ₈)	14(3 ⁵ / ₆₄)		0,05	
PFA 2000	125(4 ³⁹ / ₆₄)	125(4 ³⁹ / ₆₄)	150(5 ⁷ / ₈)	150(5 ⁷ / ₈)	28(1 ⁷ / ₆₄)		0,13	
PFA 3000	223(8 ²⁵ / ₃₂)	223(8 ²⁵ / ₃₂)	250(9 ²⁷ / ₃₂)	250(9 ²⁷ / ₃₂)	36(1 ²⁷ / ₆₄)		0,49	
PFA 6000	291(11 ²⁹ / ₆₄)	291(11 ²⁹ / ₆₄)	325(12 ⁵¹ / ₆₄)	325(12 ⁵¹ / ₆₄)	36(1 ²⁷ / ₆₄)		0,77	

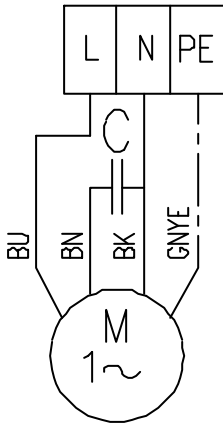
DC-12/24/48 V



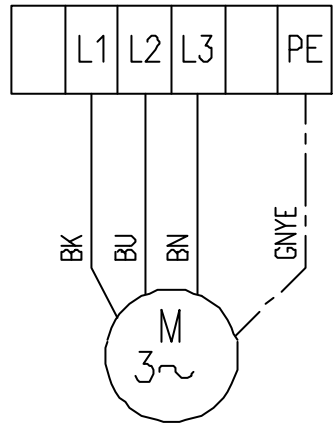
AC-230/115 V


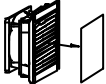
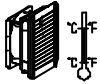


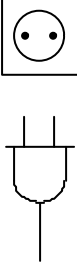


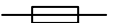


AC-230/115 V

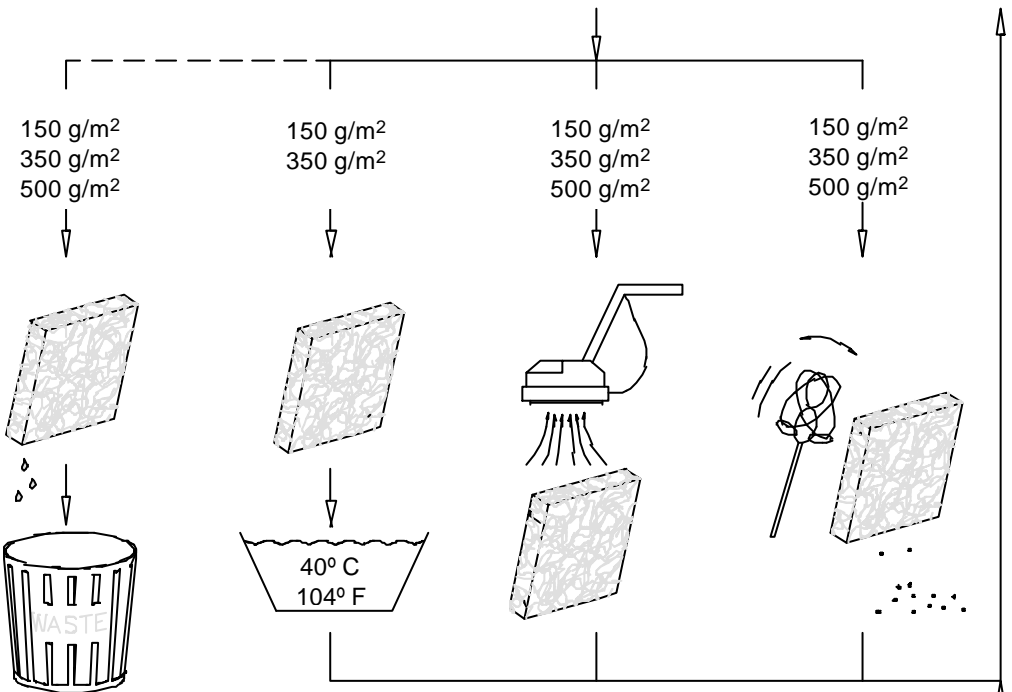
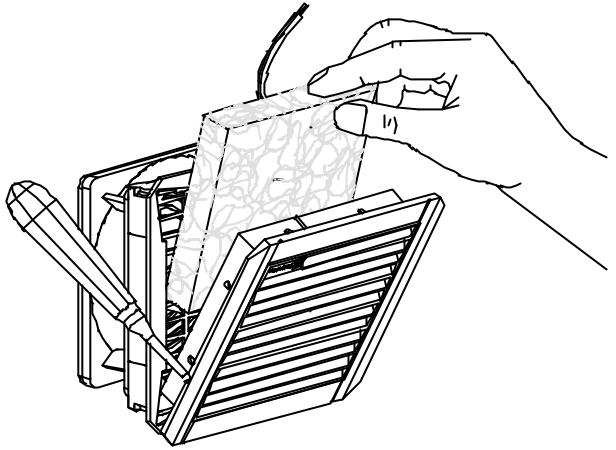


AC-400 V



AC-115 V		PF 1000	PF 2000	PF 2500	PF 3000	PF 4000	PF 5000	PF 6000	
	m³/h	24	56	131	249	293	461	625	
	Pa	29	69	57	89	194	205	225	
	°C..°C °F..°F	-10..+60 +14..+140	-10..+50 +14..+122	-10..+50 +14..+122	-10..+50 +14..+122	-10..+50 +14..+122	-10..+50 +14..+122	-10..+50 +14..+122	
	dB(A)	39	49	55	55	65	69	71	
	standard	g/m²	150	350	350	350	350	350	
	U	V	115/1/N~	115/1/N~	115/1/N~	115/1/N~	115/1/N~	115/1/N~	
		Hz	50/60	50/60	50/60	50/60	50/60	50/60	50/60
	P	W	11/11	20/20	20/20	46/47	63/76	63/76	122/173
	I	A	0,15/0,15	0,25/0,25	0,25/0,25	0,5/0,5	0,6/0,7	0,6/0,7	1,2/1,6
				IP 43	IP 54	IP 54	IP 54	IP 54	IP 54
		A		6	6	6	6	6	6

Wartung
Maintenance
Entretien
Onderhoud
Underhåll
Manutenzione
Mantenimiento



Erneuern bei Öl oder Fett
replace when oily or greasy
renouveler au huile ou gras
Vernieuwen door middel van olie of vet
Bytes vid oljig och fet miljö
rinnovare sotto grasso ed olio
renovar encaso de araso i aceite

EG-Konformitätserklärung im Sinne der EG-Richtlinie

• **Maschinen 89/392/EWG, 91/368/EWG, 93/44/EWG, 93/68/EWG**

• **Elektromagnetische Verträglichkeit 89/366/EWG, 91/263/EWG, 92/31/EWG, 93/68/EWG, 93/97/EWG**

²⁾• **Niederspannung 73/23/EWG, 93/68/EWG**

Fabrikat: **Filterlüfter**

Typbezeichnung PF 1000: 12V DC, 24V DC, 48V DC, 115V AC²⁾, 230V AC²⁾
PF 2000: 12V DC, 24V DC, 48V DC, 115V AC²⁾, 230V AC²⁾
PF 2500: 24V DC, 115V AC²⁾, 230V AC²⁾
PF 3000: 12V DC, 12V DC¹⁾, 24V DC, 24V DC¹⁾, 48V DC, 48V DC¹⁾, 115V AC²⁾, 115V AC¹⁾²⁾, 230V AC²⁾, 230V AC¹⁾²⁾, 240V AC²⁾
PF 4000: 115V AC²⁾, 115V AC¹⁾²⁾, 230V AC²⁾, 230V AC¹⁾²⁾
PF 5000: 115V AC²⁾, 230V AC²⁾
PF 6000: 115V AC²⁾, 230V AC²⁾, 400V AC²⁾
PF 2000-UL bis PF 6000-UL: 115V AC²⁾, 230V AC²⁾

¹⁾: GL-Ausführung

wurde entwickelt, konstruiert und gefertigt in Übereinstimmung mit den o. g. EG-Richtlinien, in alleiniger Verantwortung von

Firma
Otto Pfannenberg Elektro-Spezialgerätebau GmbH
Werner-Witt-Str. 1
D-21035 Hamburg

Folgende harmonisierte Normen wurden angewandt:

DIN EN 292, Sicherheit von Maschinen, Geräten und Anlagen
DIN EN 60204-1, elektrische Ausrüstung für Industriemaschinen
DIN EN 294, Sicherheit von Maschinen
EN 55014, Funkstörung von Elektrogeräten
EN 50081-2, Elektromagnetische Verträglichkeit
EN 50082-2, Elektromagnetische Verträglichkeit
IEC 335 (VDE 700)

Folgende nationale Normen, Richtlinien und Spezifikationen wurden angewandt:

DIN 31001, Schutzeinrichtungen
DIN 45635, Geräuschmessung, Teil1007

Eine Technische Dokumentation ist beim Hersteller vorhanden, die Montage-/Betriebsanleitung liegt dem Gerät bei.

Hamburg, April 1997

Stangenberg

Geschäftsführer
(betriebliche Stellung des Unterzeichners)