

Filterfan

PF 11.000 EMC

Exhaust filter

PFA 10.000 EMC



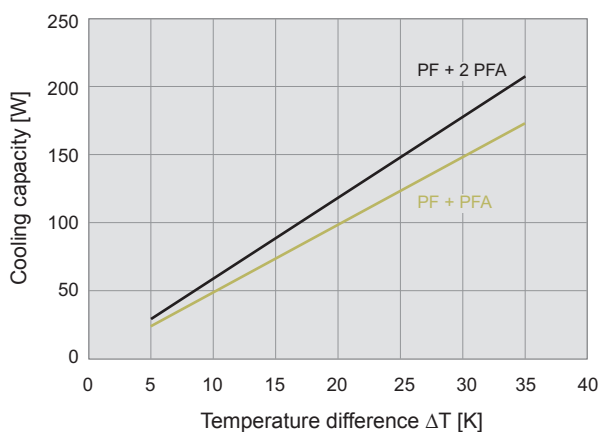
- installation size 1, air flow rate up to 29 m³/h
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54, NEMA type 12
- UL, cUL approval
- cut-out compatible to installation size 1 of the 3rd and 4th Generation

Data		PF 11.000 EMC					Unit
Article number	IP 54	11811101055	11811151055	11811851055	11811801055	11811701055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz			DC			V
		230	115	12	24	48	
Unimpeded airflow	25 / 29						m ³ /h
Airflow rate in combination (PF + PFA 10.000 EMC)	16 / 18						
Power consumption		12 / 11	12 / 11	2.4	2.4	2.6	W
Current consumption		0.07 / 0.06	0.15 / 0.15	0.2	0.1	0.05	A
Noise level (according to EN ISO 3741)	33 / 33			33			dB (A)
Weight	0.58			0.19			kg
Type of connection	cable, 2-core, length 310 mm						
Fuse	6						A
System of protection according to EN 60529 / UL 50	NEMA type 12 – standard filter						
Filtration efficiency	88						%
Filter mat quality class according to EN 779	G 3						
Duty cycle	100						%
Bearing type	sleeve bearing			ball bearing			
Service life L ₁₀ (+ 40 °C) ¹		52500	55000	70000			h
Temperature range	- 15 ... + 55 / + 5 ... + 131						°C / °F
Design (housing and protection against accidental contact)	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO						
EMC screen	stainless steel						
Colour	RAL 7035, different colours available on request						
Accessories		Piece	Article number			Information on page	
Exhaust filter PFA 10.000 EMC	IP 54	1	11910001055			170	
Thermostat		1	17121000000			188/190	

¹ fan failure is defined as being when the current and speed deviate or the operating noises are out of the ordinary
Approvals see page 129

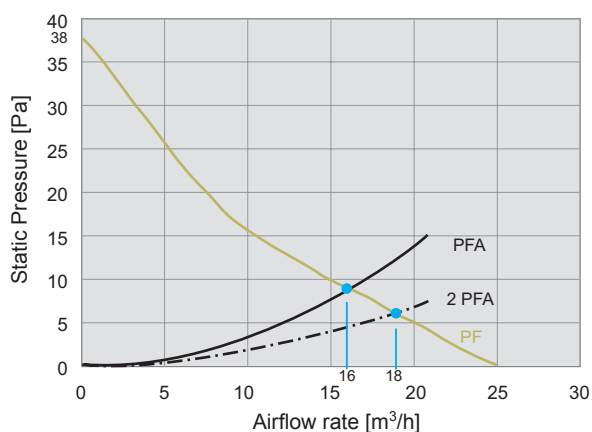
Cooling capacity performance curves

PF 11.000 EMC



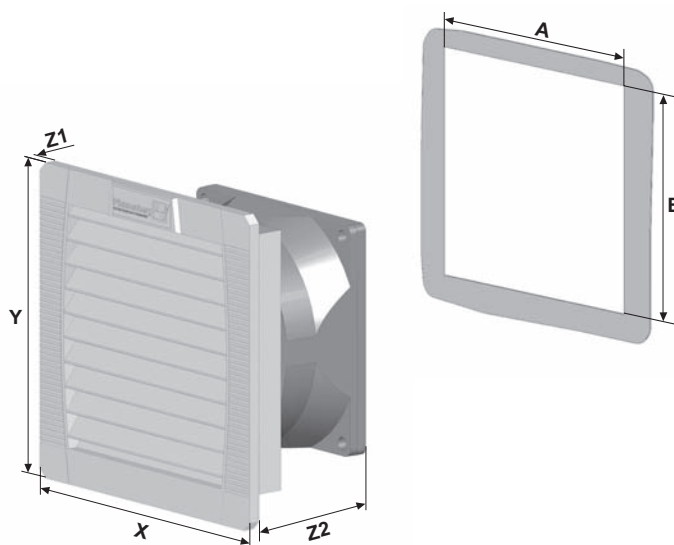
Static pressure performance curves

PF 11.000 EMC



Dimensions

mm	PF 11.000 EMC		PFA 10.000 EMC
	AC	DC	
X	109	109	109
Y	109	109	109
Z1	4	4	4
Z2	62	49	19
A	93	93	93
B	93	93	93



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 22.000 EMC

Exhaust filter

PFA 20.000 EMC



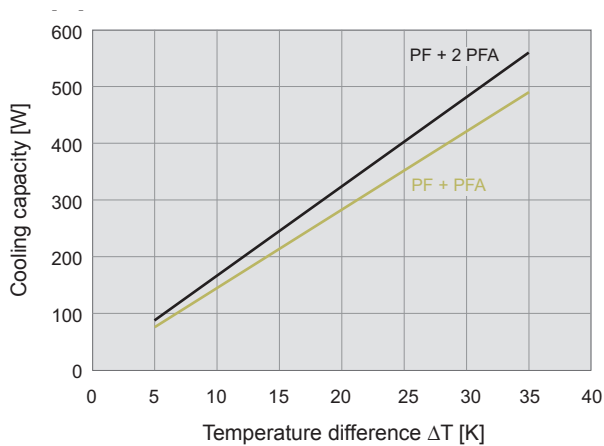
- installation size 2, air flow rate up to 70 m³/h
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)
- cut-out compatible to installation size 2 of the 3rd and 4th Generation

Data		PF 22.000 EMC					Unit
Article number	IP 54	11822101055	11822151055	11822851055	11822801055	11822701055	
	IP 55	11822103055	11822153055	11822853055	11822803055	11822703055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz			DC			V
		230	115	12	24	48	
Unimpeded airflow	IP 54	61 / 70					m ³ /h
	IP 55	56 / 64					
Airflow rate in combination (PF + PFA 20.000 EMC)	IP 54	44 / 52					
	IP 55	40 / 46					
Power consumption		19 / 18	20 / 20	5	5	5	W
Current consumption		0.12 / 0.18	0.24 / 0.23	0.42	0.21	0.1	A
Noise level (according to EN ISO 3741)	IP 54	44 / 44			44		dB (A)
	IP 55						
Weight		0.78			0.49		kg
Type of connection		terminal strip			cable, 2-core, length 310 mm		
Fuse		6					A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter					
	IP 55	NEMA type 12 - fluted filter					
Filtration efficiency	IP 54	88					%
	IP 55	91					
Filter mat quality class according to EN 779	IP 54	G 3					
	IP 55	G 4					
Duty cycle		100					%
Bearing type		sleeve bearing			ball bearing		
Service life L ₁₀ (+ 40 °C) ¹		37500	40000	62500			h
Temperature range		- 15 ... + 55 / + 5 ... + 131					°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO					
	IP 55	additional: UV-resistant					
EMC screen		stainless steel					
Colour		RAL 7035, different colours available on request					
Accessories		Piece	Article number			Information on page	
Exhaust filter PFA 20.000 EMC	IP 54	1	11920001055			170	
	IP 55	1	11920003055			170	
Thermostat		1	17121000000			188/190	

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Approvals see page 129

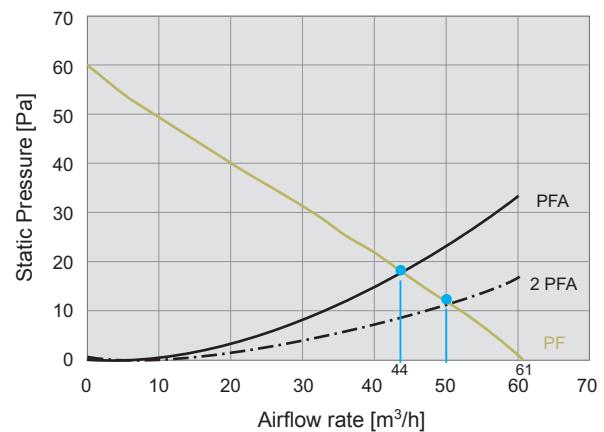
Cooling capacity performance curves

PF 22.000 EMC IP 54

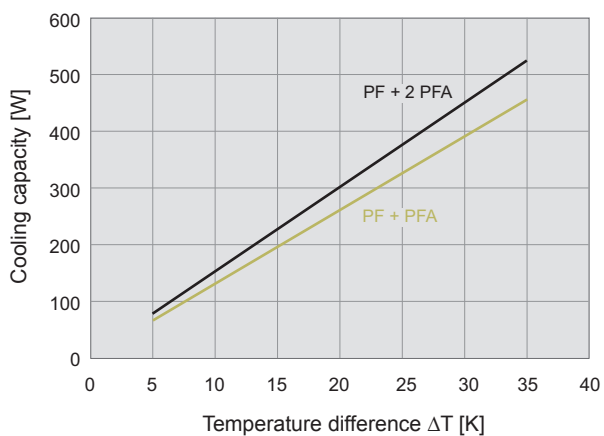


Static pressure performance curves

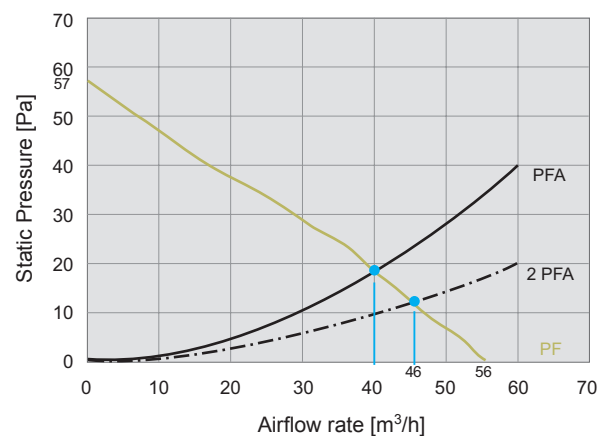
PF 22.000 EMC IP 54



PF 22.000 EMC IP 55

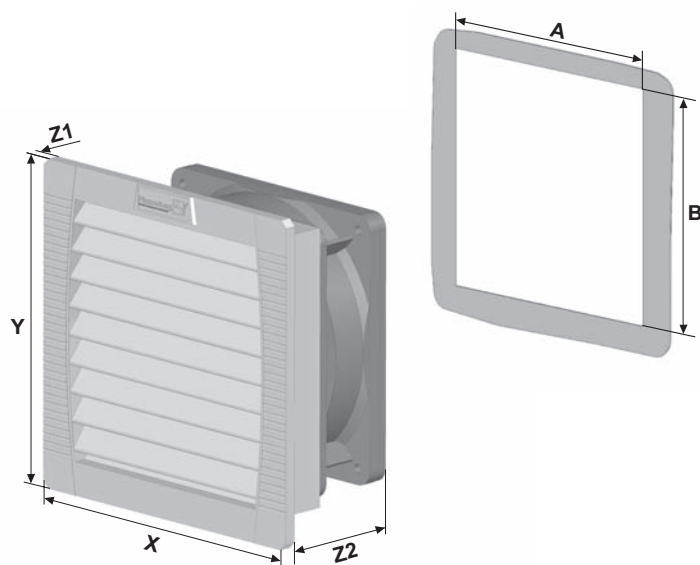


PF 22.000 EMC IP 55



Dimensions

mm	PF 22.000 EMC		PFA 20.000 EMC
	AC	DC	
X	145	145	145
Y	145	145	145
Z1	5	5	5
Z2	70	64	26
A	126	126	126
B	126	126	126



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 32.000 EMC

Exhaust filter

PFA 30.000 EMC



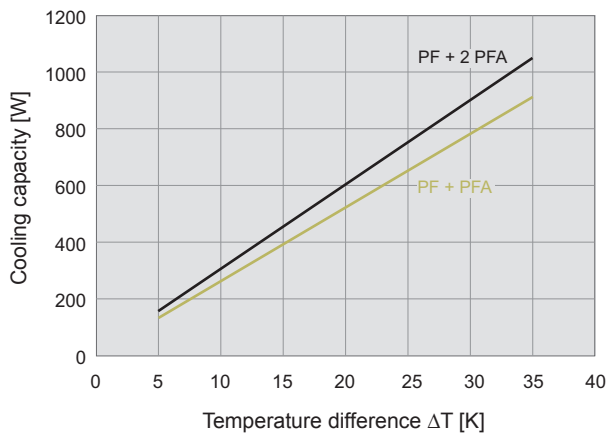
- installation size 3, air flow rate up to 125 m³/h
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)

Data		PF 32.000 EMC					Unit
Article number	IP 54	11832101055	11832151055	11832851055	11832801055	11832701055	
	IP 55	11832103055	11832153055	11832853055	11832803055	11832703055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz			DC			V
		230	115	12	24	48	
Unimpeded airflow	IP 54	110 / 125					m ³ /h
	IP 55	100 / 110					
Airflow rate in combination (PF + PFA 30.000 EMC)	IP 54	82 / 93					
	IP 55	55 / 64					
Power consumption		19 / 18	20 / 20	5	5	5	W
Current consumption		0.12 / 0.18	0.24 / 0.23	0.42	0.21	0.1	A
Noise level (according to EN ISO 3741)	IP 54	40 / 40			40		dB (A)
	IP 55						
Weight		0.96			0.7		kg
Type of connection		terminal strip			cable, 2-core, length 310 mm		
Fuse		6					A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter					
	IP 55	NEMA type 12 - fluted filter					
Filtration efficiency	IP 54	88					%
	IP 55	91					
Filter mat quality class according to EN 779	IP 54	G 3					
	IP 55	G 4					
Duty cycle		100					%
Bearing type		sleeve bearing			ball bearing		
Service life L ₁₀ (+ 40 °C) ¹		37500	40000	62500			h
Temperature range		- 15 ... + 55 / + 5 ... + 131					°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO					
	IP 55	additional: UV-resistant					
EMC screen		stainless steel					
Colour		RAL 7035, different colours available on request					
Accessories		Piece	Article number			Information on page	
Exhaust filter PFA 30.000 EMC	IP 54	1	11930001055			170	
	IP 55	1	11930003055			170	
Thermostat		1	17121000000			188/190	

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Approvals see page 129

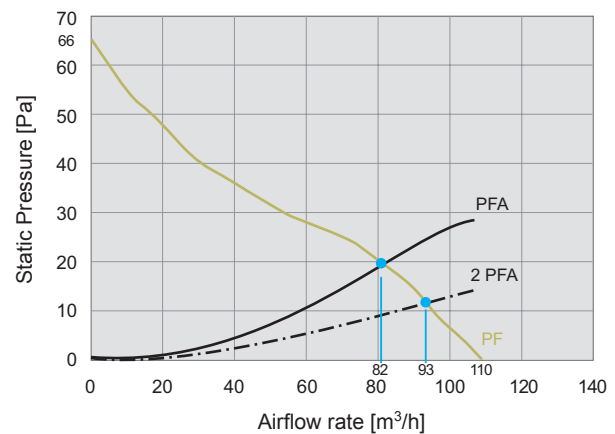
Cooling capacity performance curves

PF 32.000 EMC IP 54

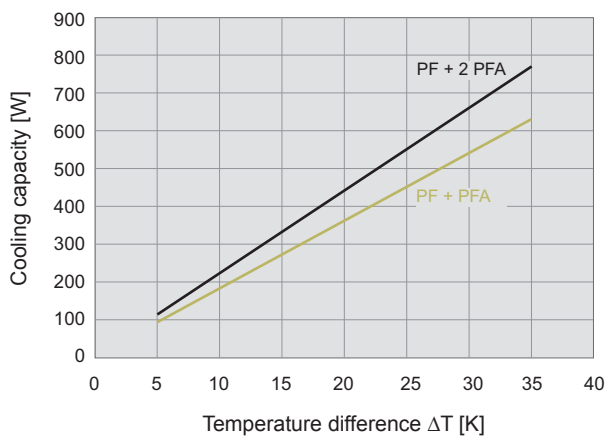


Static pressure performance curves

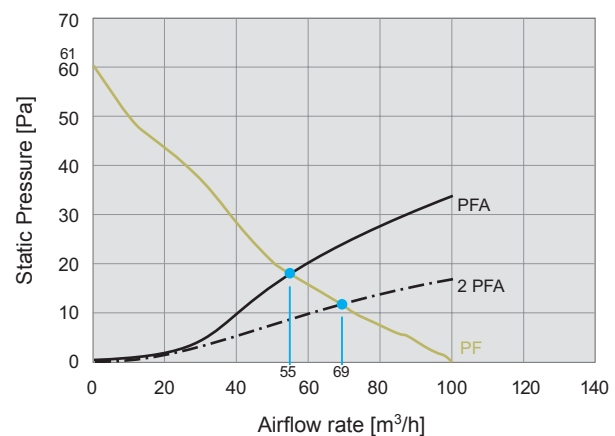
PF 32.000 EMC IP 54



PF 32.000 EMC IP 55

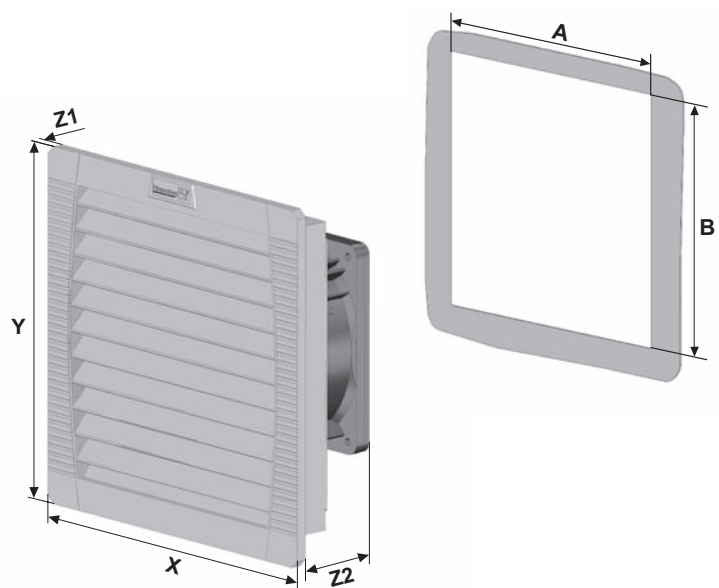


PF 32.000 EMC IP 55



Dimensions

mm	PF 32.000 EMC		PFA 30.000 EMC
	AC	DC	
X	202	202	202
Y	202	202	202
Z1	6	6	6
Z2	87	81	34
A	178	178	178
B	178	178	178



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 42.500 EMC

Exhaust filter

PFA 40.000 EMC



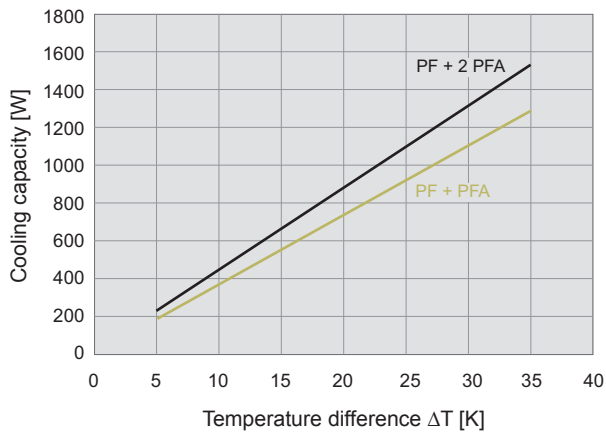
- installation size 4, air flow rate up to 171 m³/h
- two performance classes, cut-out compatible
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)
- cut-out compatible to installation size 4 of the 3rd and 4th Generation

Data		PF 42.500 EMC					Unit
Article number	IP 54	11842101055	11842151055	11842851055	11842801055	11842701055	
	IP 55	11842103055	11842153055	11842853055	11842803055	11842703055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz			DC			V
		230	115	12	24	48	
Unimpeded airflow	IP 54	156 / 171					m ³ /h
	IP 55	145 / 160					
Airflow rate in combination (PF + PFA 40.000 EMC)	IP 54	116 / 127					
	IP 55	109 / 113					
Power consumption		18 / 17	18 / 17	6	4.7	4.6	W
Current consumption		0.12 / 0.1	0.25 / 0.25	0.5	0.2	0.1	A
Noise level (according to EN ISO 3741)	IP 54	40 / 43			40		dB (A)
	IP 55						
Weight		1.34			1.08		kg
Type of connection	spring-type terminal						
Fuse	6						A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter					
	IP 55	NEMA type 12 - fluted filter					
Filtration efficiency	IP 54	88					%
	IP 55	91					
Filter mat quality class according to EN 779	IP 54	G 3					
	IP 55	G 4					
Duty cycle	100						%
Bearing type	ball bearing						
Service life L ₁₀ (+ 40 °C) ¹		40000	42500	57500	70000		h
Temperature range	- 15 ... + 55 / + 5 ... + 131						°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO					
	IP 55	additional: UV-resistant					
EMC screen	stainless steel						
Colour	RAL 7035, different colours available on request						
Accessories		Piece	Article number			Information on page	
Exhaust filter PFA 40.000 EMC	IP 54	1	11940001055			170	
	IP 55	1	11940003055			170	
Thermostat		1	17121000000			188/190	

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Approvals see page 129

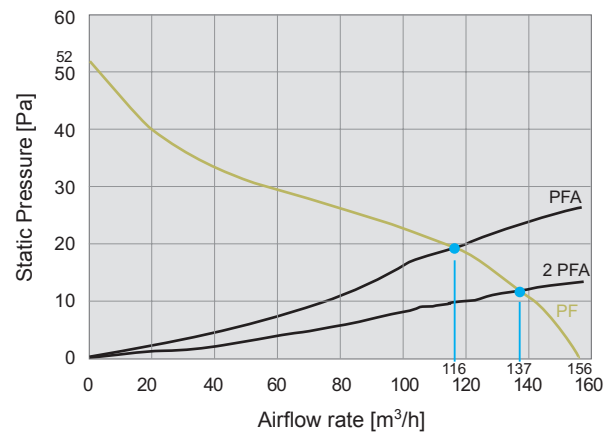
Cooling capacity performance curves

PF 42.500 EMC IP 54

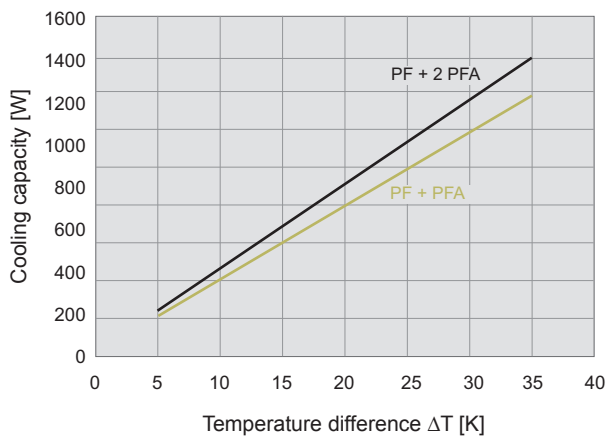


Static pressure performance curves

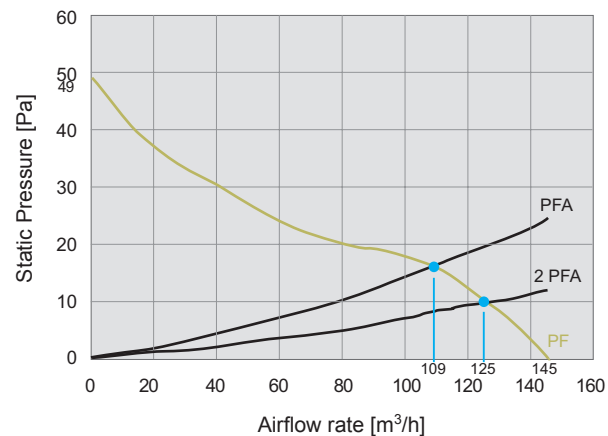
PF 42.500 EMC IP 54



PF 42.500 EMC IP 55

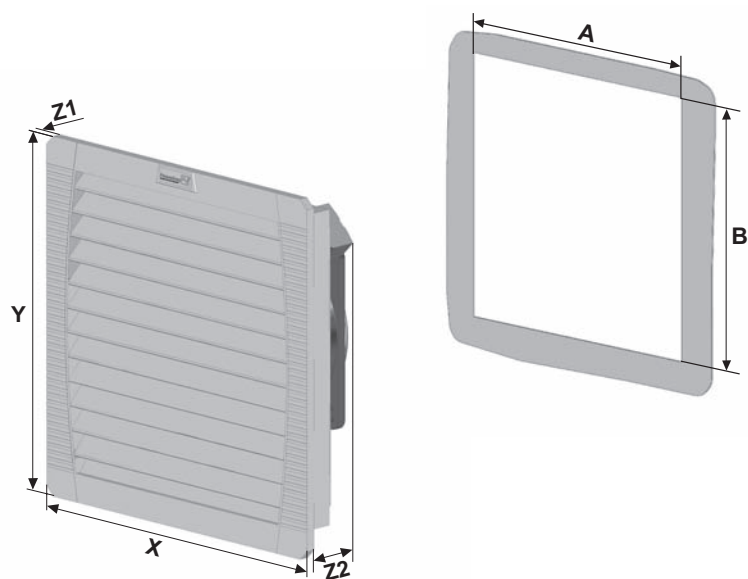


PF 42.500 EMC IP 55



Dimensions

mm	PF 42.500 EMC	PFA 40.000 EMC
X	252	252
Y	252	252
Z1	6	6
Z2	97	38
A	224	224
B	224	224



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 43.000 EMC

Exhaust filter

PFA 40.000 EMC



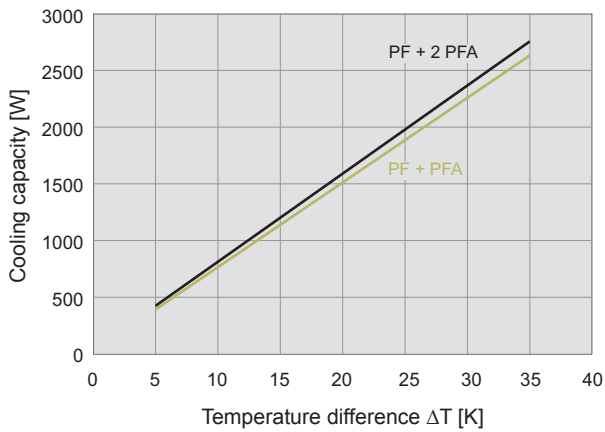
- installation size 4, air flow rate up to 292 m³/h
- two performance classes, cut-out compatible
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)
- cut-out compatible to installation size 4 of the 3rd and 4th Generation

Data		PF 43.000 EMC					Unit
Article number	IP 54	11843101055	11843151055	11843851055	11843801055	11843701055	
	IP 55	11843103055	11843153055	11843853055	11843803055	11843703055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz			DC			V
		230	115	12	24	48	
Unimpeded airflow	IP 54	256 / 292					m ³ /h
	IP 55	233 / 265					
Airflow rate in combination (PF + PFA 40.000 EMC)	IP 54	231 / 265					
	IP 55	180 / 207					
Power consumption		45 / 39	40 / 40	12	12	12	W
Current consumption		0.32 / 0.26	0.5 / 0.5	1	0.5	0.25	A
Noise level (according to EN ISO 3741)	IP 54	42 / 46			42		dB (A)
	IP 55						
Weight		1.83			1.77		kg
Type of connection	spring-type terminal						
Fuse	6						A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter					
	IP 55	NEMA type 12 - fluted filter					
Filtration efficiency	IP 54	88					%
	IP 55	91					
Filter mat quality class according to EN 779	IP 54	G 3					
	IP 55	G 4					
Duty cycle	100						%
Bearing type	ball bearing						
Service life L ₁₀ (+ 40 °C) ¹	40000			80000			h
Temperature range	- 15 ... + 55 / + 5 ... + 131						°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO					
	IP 55	additional: UV-resistant					
EMC screen	stainless steel						
Colour	RAL 7035, different colours available on request						
Accessories		Piece	Article number			Information on page	
Exhaust filter PFA 40.000 EMC	IP 54	1	11940001055			170	
	IP 55	1	11940003055			170	
Thermostat		1	17121000000			188/190	

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Approvals see page 129

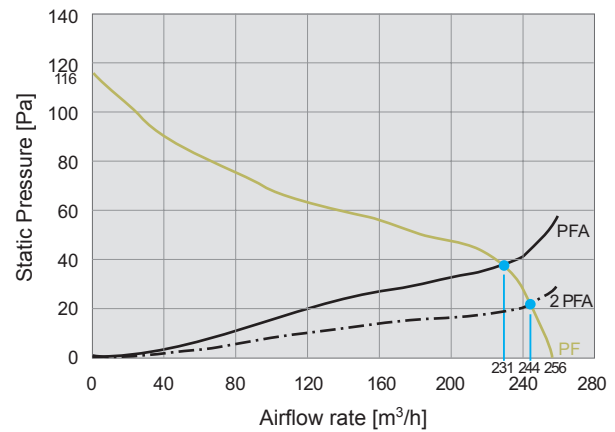
Cooling capacity performance curves

PF 43.000 EMC IP 54

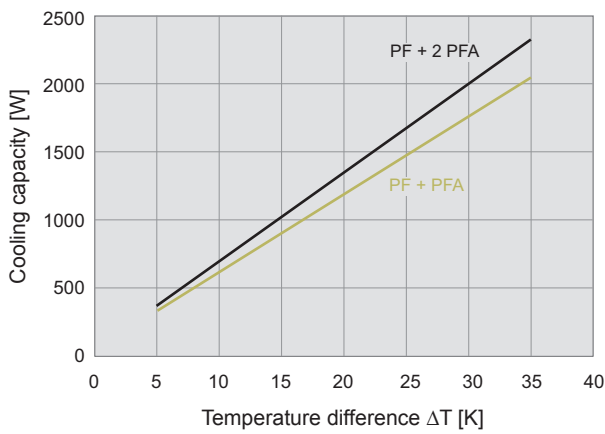


Static pressure performance curves

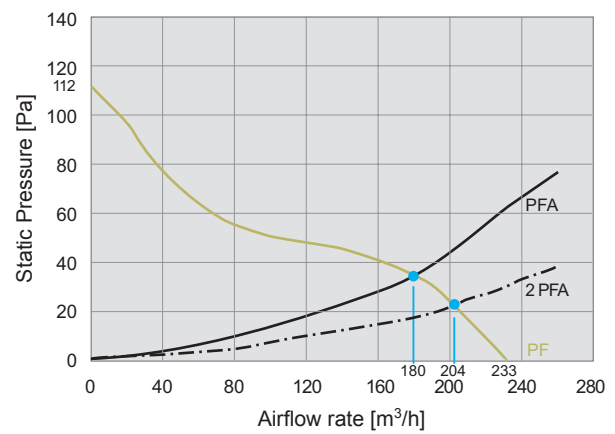
PF 43.000 EMC IP 54



PF 43.000 EMC IP 55

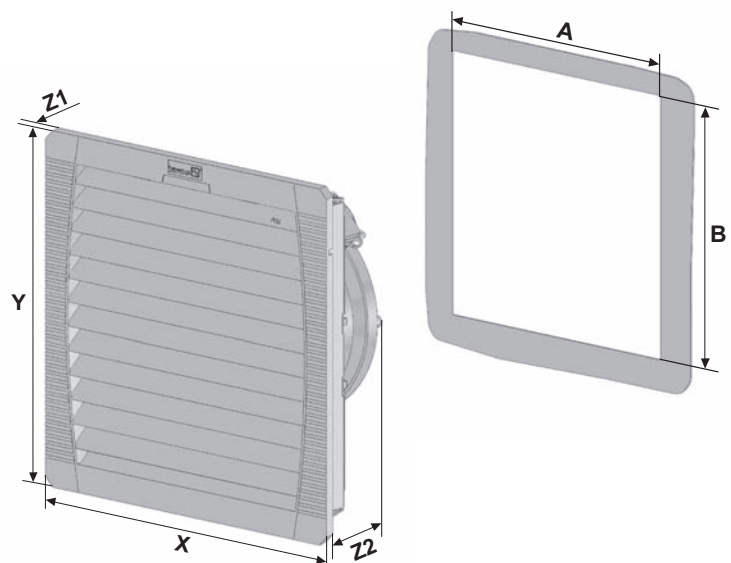


PF 43.000 EMC IP 55



Dimensions

mm	43.000 EMC		PFA 40.000 EMC
	AC	DC	
X	252	252	252
Y	252	252	252
Z1	6	6	6
Z2	113	97	38
A	224	224	224
B	224	224	224



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 65.000 EMC

Exhaust filter

PFA 60.000 EMC



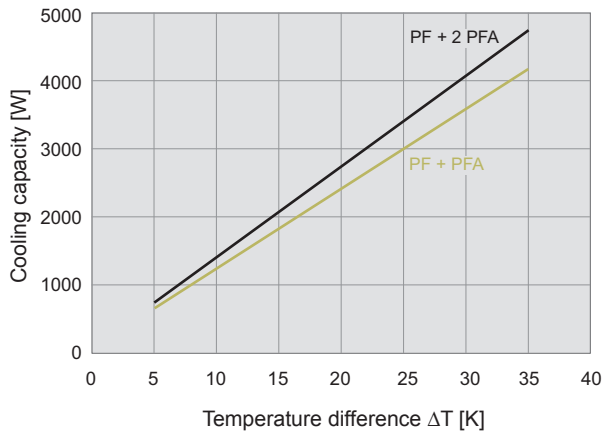
- installation size 6, air flow rate up to 505 m³/h
- three performance classes, cut-out compatible
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)
- cut-out compatible to installation size 6 of the 3rd and 4th Generation

Data		PF 65.000 EMC		Unit
Article number	IP 54	11865102055	11865152055	
	IP 55	11865103055	11865153055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz			V
		230	115	
Unimpeded airflow	IP 54	480 / 480		m ³ /h
	IP 55	505 / 505		
Airflow rate in combination (PF + PFA 60.000 EMC)	IP 54	370 / 370		
	IP 55	380 / 380		
Power consumption		65 / 80	75 / 90	W
Current consumption		0.3 / 0.36	0.66 / 0.8	A
Noise level (according to EN ISO 3741)	IP 54	54 / 52		dB (A)
	IP 55			
Weight		3.43		kg
Type of connection		spring-type terminal		
Fuse		6		A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter		
	IP 55	NEMA type 12 - fluted filter		
Filtration efficiency	IP 54	91		%
	IP 55			
Filter mat quality class according to EN 779	IP 54	G 4		
	IP 55			
Duty cycle		100		%
Bearing type		ball bearing		
Service life L ₁₀ (+ 40 °C) ¹		40000		h
Temperature range		- 15 ... + 55 / + 5 ... + 131		°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO		
	IP 55	additional: UV-resistant		
EMC screen		stainless steel		
Colour		RAL 7035, different colours available on request		
Accessories		Piece	Article number	Information on page
Exhaust filter PFA 60.000 EMC	IP 54	1	11960002055	170
	IP 55	1	11960003055	170
Thermostat		1	17121000000	188/190

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Approvals see page 129

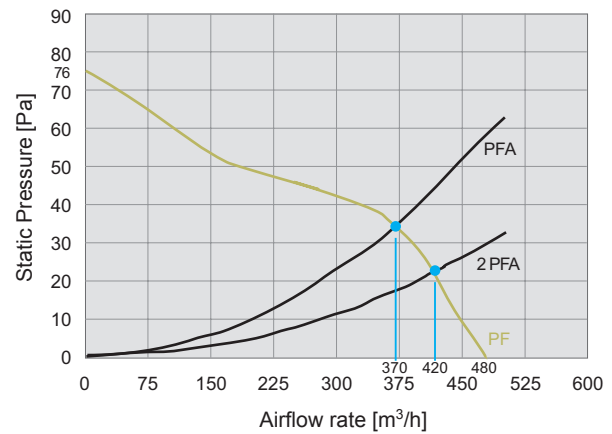
Cooling capacity performance curves

PF 65.000 EMC IP 54

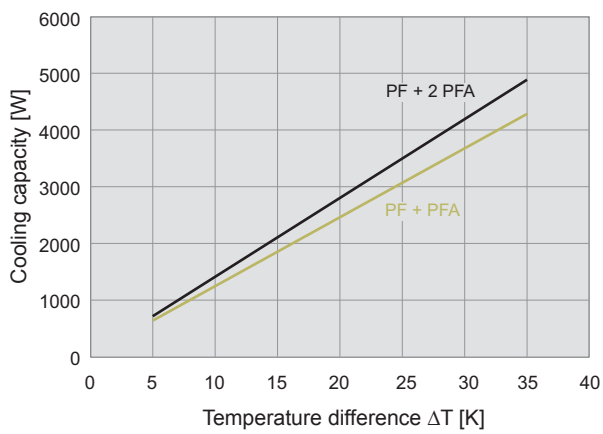


Static pressure performance curves

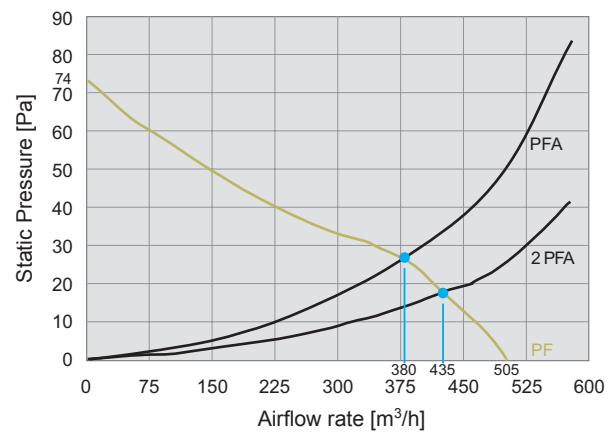
PF 65.000 EMC IP 54



PF 65.000 EMC IP 55

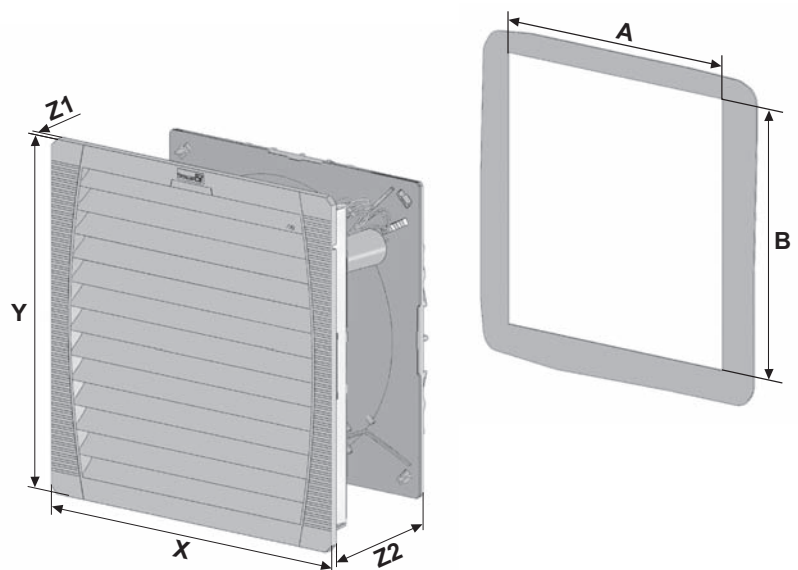


PF 65.000 EMC IP 55



Dimensions

mm	PF 65.000 EMC	PFA 60.000 EMC
X	320	320
Y	320	320
Z1	7	7
Z2	150	39
A	292	292
B	292	292



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 66.000 EMC

Exhaust filter

PFA 60.000 EMC



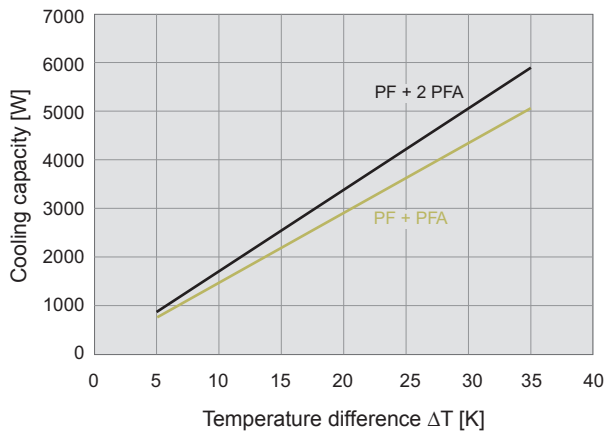
- installation size 6, air flow rate up to 785 m³/h
- three performance classes, cut-out compatible
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)
- cut-out compatible to installation size 6 of the 3rd and 4th Generation

Data		PF 66.000 EMC			Unit
Article number	IP 54	11866022055	11866102055	11866152055	
	IP 55	11866023055	11866103055	11866153055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz				V
		400 / 460 3 ~	230	115	
Unimpeded airflow	IP 54	640 / 653			m ³ /h
	IP 55	770 / 785			
Airflow rate in combination (PF + PFA 60.000 EMC)	IP 54	445 / 445			
	IP 55	490 / 501			
Power consumption		120 / 155	115 / 150	110 / 160	W
Current consumption		0.26 / 0.25	0.51 / 0.66	0.96 / 1.4	A
Noise level (according to EN ISO 3741)	IP 54	63 / 64			dB (A)
	IP 55				
Weight		3.43			kg
Type of connection		spring-type terminal			
Fuse		6			A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter			
	IP 55	NEMA type 12 - fluted filter			
Filtration efficiency	IP 54	91			%
	IP 55				
Filter mat quality class according to EN 779	IP 54	G 4			
	IP 55				
Duty cycle		100			%
Bearing type		ball bearing			
Service life L ₁₀ (+ 40 °C) ¹		40000			h
Temperature range		- 15 ... + 55 / + 5 ... + 131			°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO			
	IP 55	additional: UV-resistant			
EMC screen		stainless steel			
Colour		RAL 7035, different colours available on request			
Accessories		Piece	Article number		Information on page
Exhaust filter PFA 60.000 EMC	IP 54	1	11960002055		170
	IP 55	1	11960003055		170
Thermostat		1	17121000000		188/190

¹ fan failure is defined as being when the current and speed deviate or the operating noises are out of the ordinary
Approvals see page 129

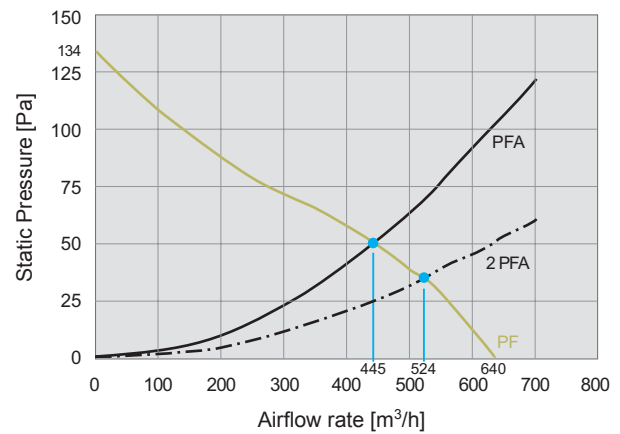
Cooling capacity performance curves

PF 66.000 EMC IP 54



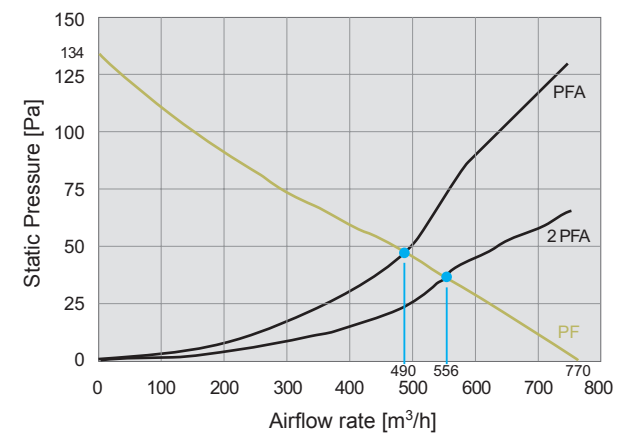
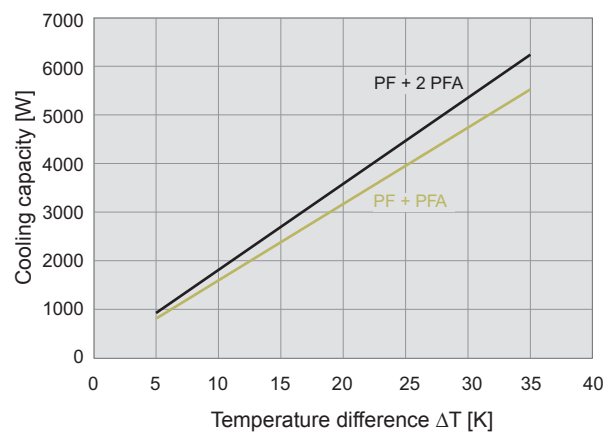
Static pressure performance curves

PF 66.000 EMC IP 54



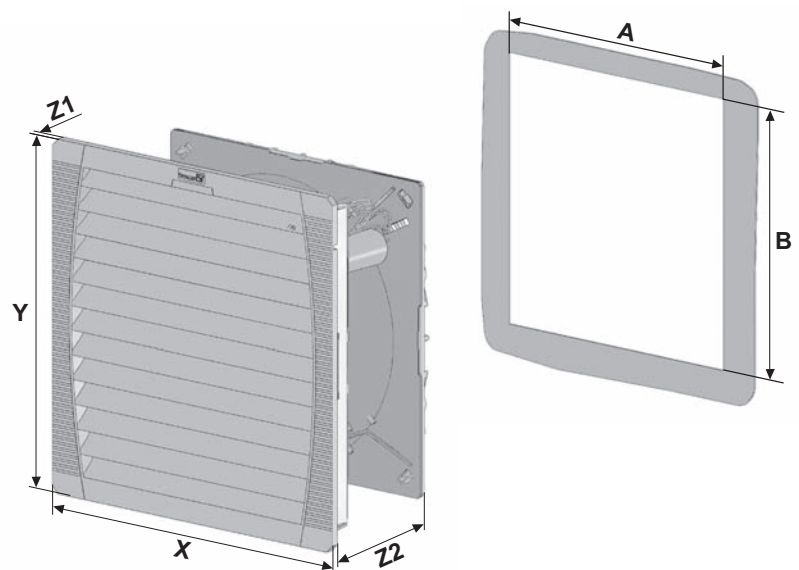
PF 66.000 EMC IP 55

PF 66.000 EMC IP 55



Dimensions

mm	PF 66.000 EMC	PFA 60.000 EMC
X	320	320
Y	320	320
Z1	7	7
Z2	150	39
A	292	292
B	292	292



Further information on the EMC Filterfans (EMC series) can be found on page 166.

Filterfan

PF 67.000 EMC

Exhaust filter

PFA 60.000 EMC



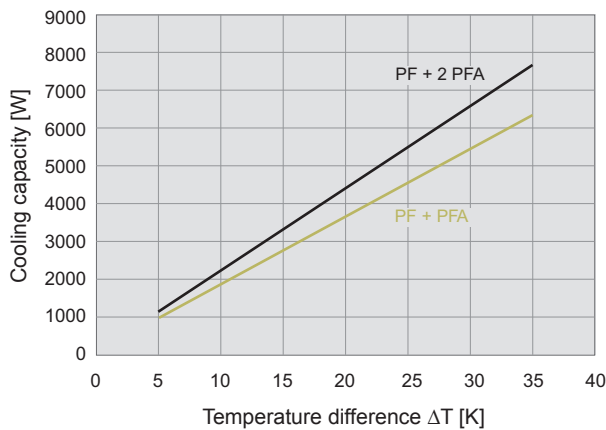
- installation size 6, air flow rate up to 950 m³/h
- three performance classes, cut-out compatible
- secure contact due to improved contact springs on the screen grid
- system of protection IP 54 and IP 55, NEMA type 12
- UL, cUL approval
- UV-resistance (IP 55 version)
- cut-out compatible to installation size 6 of the 3rd and 4th Generation

Data		PF 67.000 EMC			Unit
Article number	IP 54	11867022055	11867102055	11867152055	
	IP 55	11867023055	11867103055	11867153055	
Rated voltage ± 10 %	AC 50 Hz / 60 Hz				V
		400 / 460 3 ~	230	115	
Unimpeded airflow	IP 54	845 / 875			m ³ /h
	IP 55	925 / 950			
Airflow rate in combination (PF + PFA 60.000 EMC)	IP 54	560 / 625			
	IP 55	570 / 625			
Power consumption		140 / 170	135 / 200	140 / 195	W
Current consumption		0.35 / 0.43	0.59 / 0.88	1.23 / 1.71	A
Noise level (according to EN ISO 3741)	IP 54	66 / 69			dB (A)
	IP 55				
Weight		3.93			kg
Type of connection		spring-type terminal			
Fuse		6			A
System of protection according to EN 60529 / UL 50	IP 54	NEMA type 12 - standard filter			
	IP 55	NEMA type 12 - fluted filter			
Filtration efficiency	IP 54	91			%
	IP 55				
Filter mat quality class according to EN 779	IP 54	G 4			
	IP 55				
Duty cycle		100			%
Bearing type		ball bearing			
Service life L ₁₀ (+ 40 °C) ¹		40000			h
Temperature range		- 15 ... + 55 / + 5 ... + 131			°C / °F
Design (housing and protection against accidental contact)	IP 54	made of injection-moulded thermoplastic, self-extinguishing, UL 94 VO			
	IP 55	additional: UV-resistant			
EMC screen		stainless steel			
Colour		RAL 7035, different colours available on request			
Accessories	Piece	Article number		Information on page	
Exhaust filter PFA 60.000 EMC	IP 54	1	11960002055	170	
	IP 55	1	11960003055	170	
Thermostat	1		17121000000	188/190	

¹ fan failure is defined as being when the current and speed deviate or the operating noises are out of the ordinary
Approvals see page 129

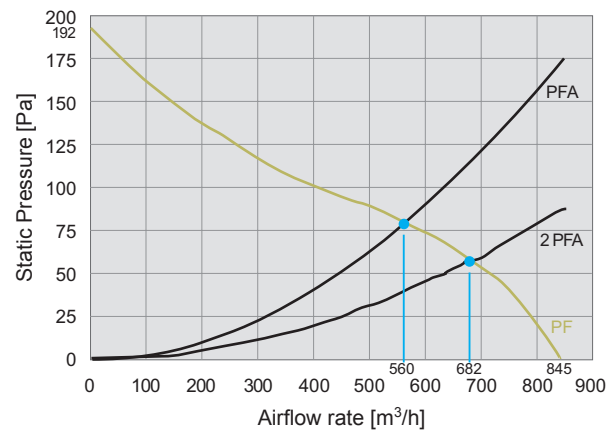
Cooling capacity performance curves

PF 67.000 EMC IP 54

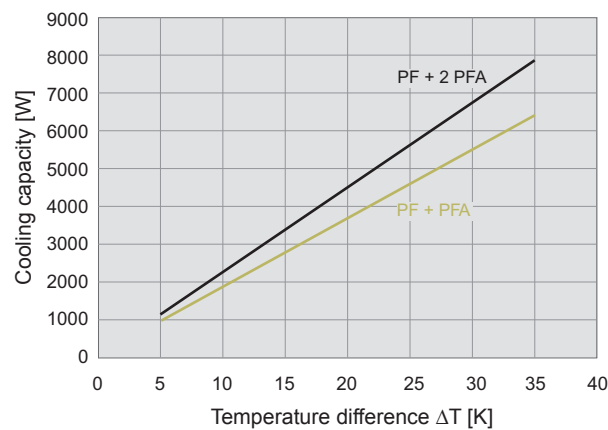


Static pressure performance curves

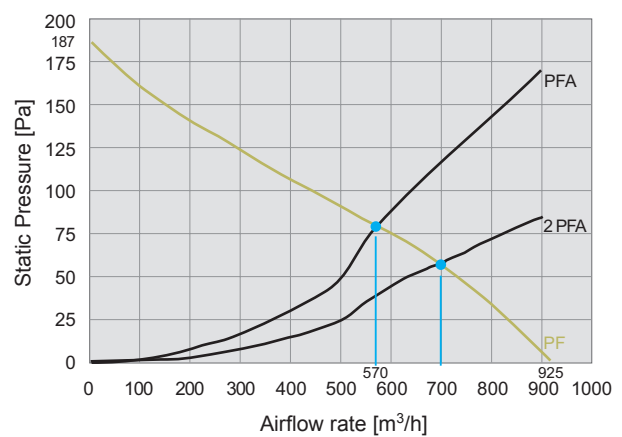
PF 67.000 EMC IP 54



PF 67.000 EMC IP 55

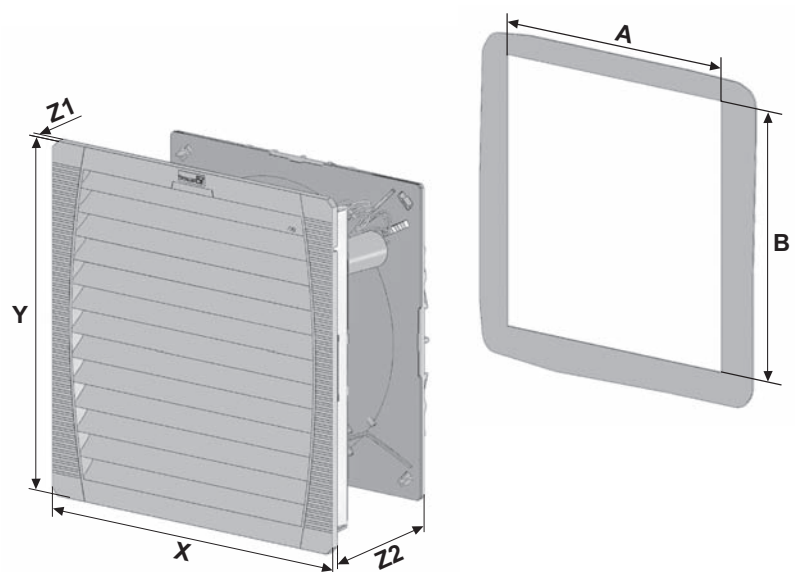


PF 67.000 EMC IP 55



Dimensions

mm	PF 67.000 EMC	PFA 60.000 EMC
X	320	320
Y	320	320
Z1	7	7
Z2	150	39
A	292	292
B	292	292



Further information on the EMC Filterfans (EMC series) can be found on page 166.