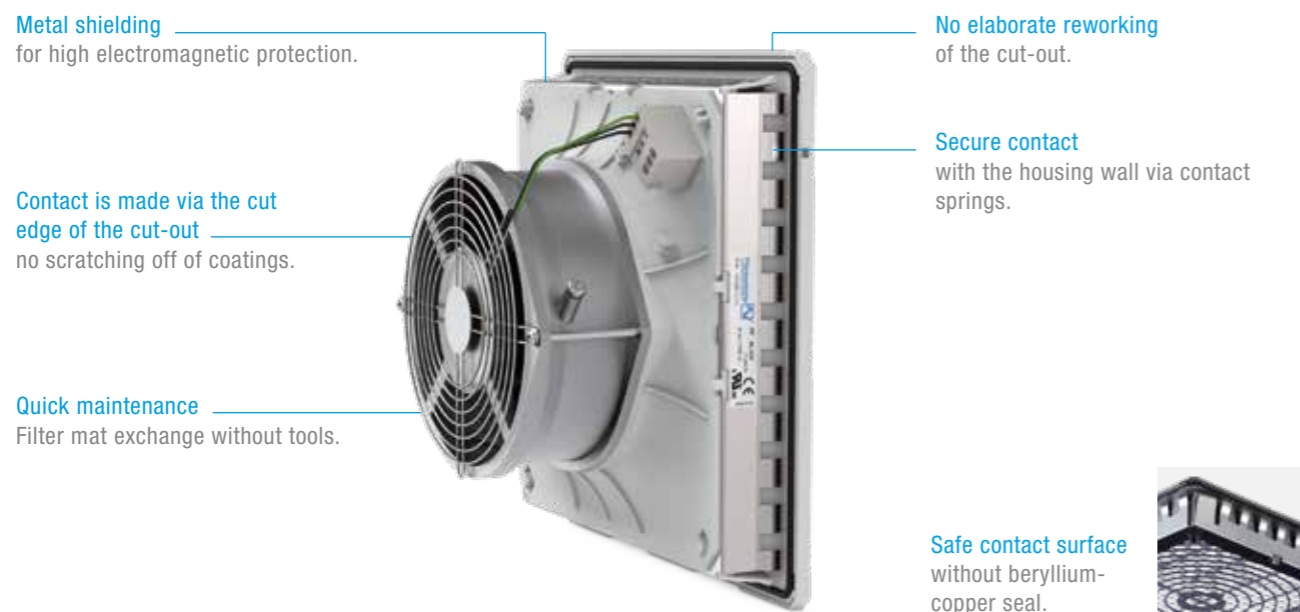


EMC Filterfans

In most cases, industrial control cabinets are made of sheet steel. As a result of this choice of material, the control cabinet provides very good protection against electromagnetic radiation. This protection is compromised by the cut-out in the cabinet for the filterfan. Since the filterfan is usually made of plastic, electromagnetic waves can enter and escape in both directions through the opening. EMC filterfans “close” this hole.



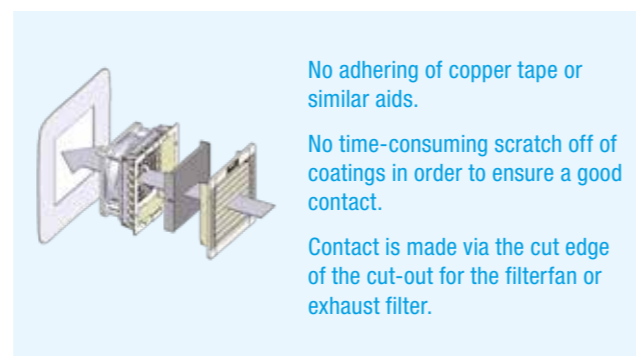
Pfannenberg uses a very effective, safe and environmentally friendly method for its EMC filterfan model. As a result, the protective effect of the control cabinet is restored even though filterfans are used. The EMC protection of the control cabinet is, as a result, guaranteed in both directions of the electromagnetic radiation. The components in the cabinet do not disturb the external environment and disturbance sources outside the cabinet do not disturb the components on the inside.

Pfannenberg's EMC filterfans reach the following attenuation values:

- Damping at 30 MHz approx. 71 dB
- Damping at 400 MHz approx. 57 dB

You can find the result charts of all shield attenuation measurements of Pfannenberg's filterfans and exhaust filters on www.pfannenberg.com; please enter Webcode #2314 in the search window.

No elaborate reworking of the cut-out.



EMC FILTERFANS 19–108 m³/h

size
(PF 11.000)

size
(PF 22.000)

size
(PF 32.000)

IP 54
protection system

tool-less filter mat
changing

tool-less mounting

EMC
tested



PRODUCT	PF 11.000 EMC		PF 22.000 EMC		PF 32.000 EMC		Unit
ARTICLE NO.	11811101055	11811801055	11822101055	11822801055	11832101055	11832801055	

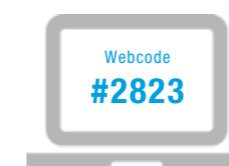
DATA	PF 11.000 EMC		PF 22.000 EMC		PF 32.000 EMC		
Rated voltage ±10 %	AC 50 60 Hz 230	DC 24	AC 50 60 Hz 230	DC 24	AC 50 60 Hz 230	DC 24	V
Unimpeded airflow	19 24	19	61 70	61	98 108	98	m³/h
Airflow rate in combination with exhaust filter	12 14	12	38 42	38	73 80	73	
Power consumption	19 18	2.4	19 18	5	19 18	5	W
Current consumption	0.12 0.18	0.1	0.12 0.18	0.21	0.12 0.18	0.21	A
Type of connection	cable, 2-core, length 310 mm		terminal strip	cable, 2-core, length 310 mm	terminal strip	cable, 2-core, length 310 mm	
Temperature range	-40 ... +55 -40 ... +131						°C °F
Service life L ₁₀ (+40 °C)	52500	70000	37500	62500	37500	62500	h
Dimensions (X x Y)	109 x 109		145 x 145		202 x 202		
Installation depth (Z2) + Construction height (Z1)	62 + 4	49 + 4	70 + 5	64 + 5	87 + 6	81 + 6	mm
Cut-out dimensions (W x H)	93 x 93		126,5 x 126,5		178 x 178		

ACCESSORIES	ARTICLE NUMBER			Page
Exhaust filter	11910001055	11920001055	11930001055	40
Spare filter mats 5 pieces	18611600029	18611600030	18611600031	41
Thermostat	17121000000			39
Hygrostat	17207000000			39
Rainhood in stainless steel	18102000014		18102000017	39

For additional models, options and voltages visit www.pfannenberg.com or contact us directly.



Performance curves on page 158.



Comprehensive technical documentation such as

- operating instruction, technical data, approvals
- cut-out drawing, CAD | EPLAN | Zuken | WSCAD data

can be retrieved by entering this webcode in the search window on www.pfannenberg.com

