

Filter Fan for electrical cabinets and enclosures 120 V or 230 V AC versions

- Very low acoustic noise
- Minimal depth within enclosure
- Air volume 24, 55 and 100 m³/h (free flow)
- Air volume 14, 40 and 75 m³/h (with Exhaust Filter installed in cabinet)
- Nominal voltage: 120 or 230 V AC (50/60 Hz)
- Time-saving installation and maintenance
- Easily replaceable filter mat
- Filter Fan supplied in Reverse flow mode (7F.21)

NEW 7F.20.8.xxx.1020



- Nominal voltage 120 or 230 V AC
- Air volume 24 m³/h
- Rated power 17 W
- Size 1

NEW 7F.20.8.xxx.2055



- Nominal voltage 120 or 230 V AC
- Air volume 55 m³/h
- Rated power 28 W
- Size 2

NEW 7F.20.8.xxx.3100



- Nominal voltage 120 or 230 V AC
- Air volume 100 m³/h
- Rated power 28 W
- Size 3

For outline drawing see page 14

Fan data

Air volume (free flow)	m³/h	24		55		100	
Air volume (with exhaust filter installed)	m³/h	14		40		75	
Noise level	dB (A)	27		42		42	
Life time at 40 °C	h	50000		50000		50000	

Electrical data

Nominal voltage (U _N)	V AC (50/60 Hz)	120	230	120	230	120	230
Operating range	AC	(0.8...1.1)U _N		(0.8...1.1)U _N		(0.8...1.1)U _N	
Current consumption	A	0.23	0.1	0.25	0.12	0.25	0.12
Rated power	W	17	17	28	28	28	28

Other data

Housing, cover	Plastics according to UL94 V-0, light grey (RAL 7035)	
Filter mat (included)	G3 according to EN 779, filtering degree (80...90)%	
Filter material	Synthetic fibre with progressive construction, temperature resistant to +100 °C, self extinguishing, Class F1 (DIN 53438)	
Electrical connections	Push-in terminals	
Wire size (mm²)	min/max	0.7/2.5
Wire size (AWG)	min/max	18/14
Ambient temperature range	°C	−15...+55
Protection class	I	
Protection category according to EN 60529	IP54	
Protection category according to NEMA	Type 12	

Approvals (according to type)



Ordering information

Example: Series 7F, Filter Fan for mounting in sidewalls, nominal voltage 230 V AC, size 1, air volume 24 m³/h.

7 F . 2 0 . 8 . 2 3 0 . 1 0 2 0

Series

Type

20 = Filter Fan - for indoor use
 21 = Reverse flow Filter Fan - for indoor use
 50 = Filter Fan - for indoor use
 70 = EMC Filter Fan - for indoor use
 80 = Reverse flow Filter Fan - for indoor use

Supply version

8 = AC (50/60 Hz)
 9 = DC

Operating voltage

024 = 24 V DC
 120 = 120 V AC
 230 = 230 V AC

Enclosure cut-out

1 = Size 1 (92^{+0.5} x 92^{+0.5}) mm
 2 = Size 2 (125^{+1.0} x 125^{+1.0}) mm
 3 = Size 3 (177^{+1.0} x 177^{+1.0}) mm
 4 = Size 4 (224^{+1.0} x 224^{+1.0}) mm
 5 = Size 5 (291^{+1.0} x 291^{+1.0}) mm

Air volume (free flow)

020 = 24 m³/h
 055 = 55 m³/h
 100 = 100 m³/h
 230 = 230 m³/h
 370 = 370 m³/h
 500 = 500 m³/h
 630 = 630 m³/h

Filter Fans - All versions

Standard versions	EMC versions	Reverse flow versions	
7F.20.8.120.1020	—	7F.21.8.120.1020	Filter Fan, Size 1
7F.20.8.120.2055	—	7F.21.8.120.2055	Filter Fan, Size 2
7F.20.8.120.3100	—	7F.21.8.120.3100	Filter Fan, Size 3
7F.50.8.120.4230	—	7F.80.8.120.4230	Filter Fan, Size 4
7F.50.8.120.4370	—	7F.80.8.120.4370	Filter Fan, Size 4
7F.50.8.120.5500	—	7F.80.8.120.5500	Filter Fan, Size 5
7F.50.8.120.5630	—	—	Filter Fan, Size 5
7F.20.8.230.1020	—	7F.21.8.230.1020	Filter Fan, Size 1
7F.20.8.230.2055	—	7F.21.8.230.2055	Filter Fan, Size 2
7F.20.8.230.3100	—	7F.21.8.230.3100	Filter Fan, Size 3
7F.50.8.230.4230	7F.70.8.230.4230	7F.80.8.230.4230	Filter Fan, Size 4
7F.50.8.230.4370	7F.70.8.230.4370	7F.80.8.230.4370	Filter Fan, Size 4
7F.50.8.230.5500	7F.70.8.230.5500	7F.80.8.230.5500	Filter Fan, Size 5
7F.50.8.230.5630	7F.70.8.230.5630	—	Filter Fan, Size 5
7F.20.9.024.1020	—	7F.21.9.024.1020	Filter Fan, Size 1
7F.20.9.024.2055	—	7F.21.9.024.2055	Filter Fan, Size 2
7F.20.9.024.3100	—	7F.21.9.024.3100	Filter Fan, Size 3
7F.50.9.024.4230	7F.70.9.024.4230	7F.80.9.024.4230	Filter Fan, Size 4

Note:

The technical features (air volume, dimensions and electrical parameters) for the Standard Filter Fans (7F.20 and 7F.50), the EMC Filter Fans (7F.70) and the Reverse flow versions (7F.21 and 7F.80) - are exactly the same.

7F.50.8.120.5630 has no UL approval. Other versions on request.