Thermal Management
Ventilation Range
High flow filter fan | EF

IP 54 | TYPE 12



Description:
Filter fan for forced ventilation. nVent HOFFMAN filter fans save time on installation as they are installed with a click-in system without screws. The hinged front cover can be easily opened for quick and easy filter replacement. The airflow direction and the connection position can easily be changed.

Material:
Front cover manufactured from injection-moulded thermoplastic, self-extinguishing, UL94V0.

Temperature range:
-40 °C to +55 °C.

Protection:
IP 54 | TYPE 12.

Finish:
RAL 7035.

Pack quantity:
One fan with filter.

Dimensional table | EF

IP 54 | TYPE 12

230 V AC, 50/60 Hz

Unimpeded airflow (m³/h)	EF+EFA Air flow (m³/h)	Filter mat (EN779)	Filtration efficiency (%)	Service life L10 (40°C)(h)	Bearing type	Noise (dB)	Item no.
19/24	12/14	G4	>90	52.500	Sleeve	33	EF100R5
61/67	44/50	G4	>90	37.500	Sleeve	44	EF200R5
98/108	73/80	G4	>90	37.500	Sleeve	40	EF220R5
125/138	93/102	G4	>90	40.000	Ball	40	EF250R5
223/247	201/223	G4	>90	40.000	Ball	42	EF300R5
480/480	370/370	G3	80-90	40.000	Ball	54	EF500R5
640/653	445/445	G3	80-90	40.000	Ball	63	EF600R5
845/875	560/625	G3	80-90	40.000	Ball	66	EF700R5

230 V AC, 50/60 Hz

Cut-out (mm)	Weight (kg)	Connection	Current (A)	Power (W)	Fuse (A)	Item no.
92 × 92	0.55	310 mm cable	0.07/0.06	12/11	6	EF100R5
125 × 125	0.80	Terminal strip	0.12/0.18	19/18	6	EF200R5
177 × 177	1.05	Terminal strip	0.12/0.18	19/18	6	EF220R5
223 × 223	1.45	Spring type	0.12/0.10	18/17	6	EF250R5
223 × 223	1.90	Spring type	0.32/0.26	45/39	6	EF300R5
291 × 291	3.85	Spring type	0.30/0.36	80/100	6	EF500R5
291 × 291	4.05	Spring type	0.51/0.66	120/160	6	EF600R5
291 × 291	4.50	Spring type	0.59/0.88	140/197	6	EF700R5

115 V AC, 50/60Hz

Unimpeded airflow (m³/h)	EF+EFA Air flow (m³/h)	Filter mat (EN779)	Filtration efficiency (%)	Service life L10 (40°C)(h)	Bearing type	Noise (dB)	Item no.
19/24	12/14	G4	>90	55.000	Sleeve	33	EF100-115R5
61/67	44/50	G4	>90	40.000	Sleeve	44	EF200-115R5
98/108	73/80	G4	>90	40.000	Sleeve	40	EF220-115R5
125/138	93/102	G4	>90	42.500	Ball	43	EF250-115R5
223/247	201/223	G4	>90	40.000	Ball	46	EF300-115R5
480/480	370	G3	80-90	40.000	Ball	52	EF500-115R5
640/653	445	G3	80-90	40.000	Ball	64	EF600-115R5
845/875	625	G3	80-90	40.000	Ball	69	EF700-115R5

115 V AC, 50/60Hz

Cut-out (mm)	Weight (kg)	Connection	Current (A)	Power (W)	Fuse (A)	Item no.
92 × 92	0.55	310 mm cable	0.15/0.15	12/11	6	EF100-115R5
125 × 125	0.80	Terminal strip	0.24/0.23	20/20	6	EF200-115R5
177 × 177	1.05	Terminal strip	0.24/0.23	20/20	6	EF220-115R5
223 × 223	1.45	Spring type	0.25/0.25	18/17	6	EF250-115R5
223 × 223	1.90	Spring type	0.50/0.50	40/40	6	EF300-115R5
291 × 291	3.85	Spring type	0.66/0.80	75/90	6	EF500-115R5
291 × 291	4.10	Spring type	0.96/1.40	110/160	6	EF600-115R5
291 × 291	4.50	Spring type	1.23/1.71	140/195	6	EF700-115R5

24 V DC

Unimpeded airflow (m³/h)	EF+EFA Air flow (m³/h)	Filter mat (EN779)	Filtration efficiency (%)	Service life L10 (40°C)(h)	Bearing type	Noise (dB)	Item no.
19/24	12/14	G4	>90	70.000	Ball	33	EF100-24R5
61/67	44/50	G4	>90	62.500	Ball	44	EF200-24R5
98/108	73/80	G4	>90	62.500	Ball	40	EF220-24R5
125/138	93/102	G4	>90	70.000	Ball	40	EF250-24R5
223/247	201/223	G4	>90	80.000	Ball	42	EF300-24R5

24 V DC

Cut-out (mm)	Weight (kg)	Connection	Current (A)	Power (W)	Fuse (A)	Item no.
92 × 92	0.25	310 mm cable	0.10	2.40	6	EF100-24R5
125 × 125	0.45	310 mm cable	0.21	5.00	6	EF200-24R5
177 × 177	0.70	310 mm cable	0.21	5.00	6	EF220-24R5
223 × 223	1.40	Spring type	0.20	4.70	6	EF250-24R5
223 × 223	1.45	Spring type	0.50	12.00	6	EF300-24R5

Thermal Management
Ventilation Range
Accessories

Exhaust filter, EFA



Description: Exhaust filter to be used for natural ventilation, or for forced ventilation working with filter fans EF. nVent HOFFMAN exhaust filters save us time because are installed with a click-in system without screws. The hinged front cover can be easily opened for quick and easy filter replacement.

Material: Front cover made of injection-moulded thermoplastic, self-extinguishing, UL94V0.

Temperature range: -40 °C to +55 °C.

Protection: IP 54 | TYPE 12.

Finish: RAL 7035.

Approvals: CE, EAC, cRUus_UL Recognized.

Pack quantity: One exhaust filter.

Filter mat (EN779)	Filtration efficiency (%)	Cut-out (mm)	Depth	Item no.
G4	>90	92 × 92	19	EFA100R5
G4	>90	125 × 125	26	EFA200R5
G4	>90	177 × 177	34	EFA220R5
G4	>90	223 × 223	38	EFA250-300R5
G3	>90	291 × 291	39	EFA500-700R5

Standard filter mat IP54, EFM



Description: To replace the standard filter supplied with the filter fans EF and the exhaust filters EFA. It is recommended to replace the filter each year or sooner depending on the environment.

Temperature range: -40 °C to +55 °C.

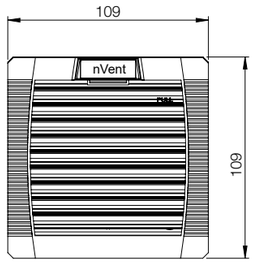
Pack quantity: 5 pieces.

Filter mat (EN779)	For	Item no.
G4	EF/EFA 100	EFM100
G4	EF/EFA 200	EFM200
G4	EF/EFA 220	EFM220
G4	EF/EFA 250, 300	EFM250-300
G3	EF/EFA 500, 700	EFM500-700

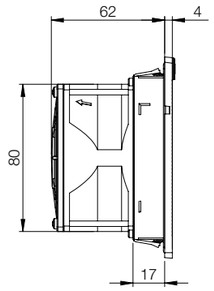
Dimensional drawing | EF/EFA

EF100R5 / EFA100R5

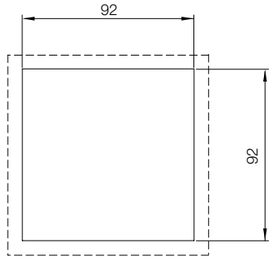
Front view



Side view

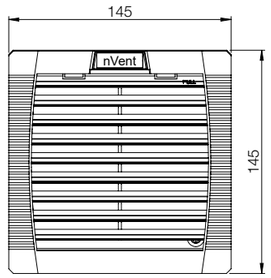


Cut-out

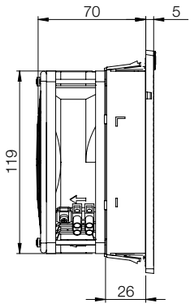


EF200R5 / EFA200R5

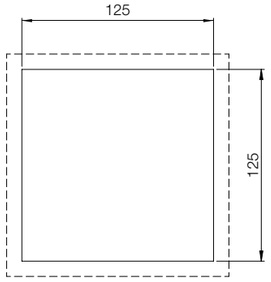
Front view



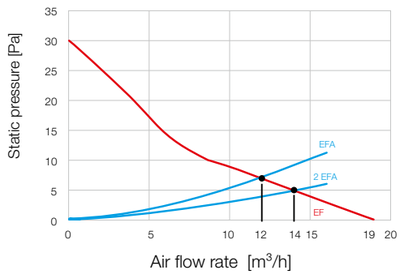
Side view



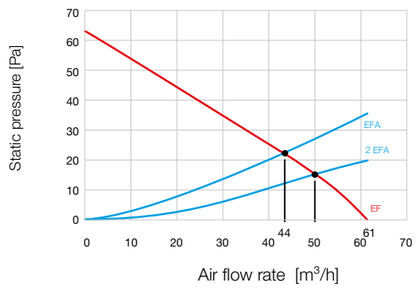
Cut-out



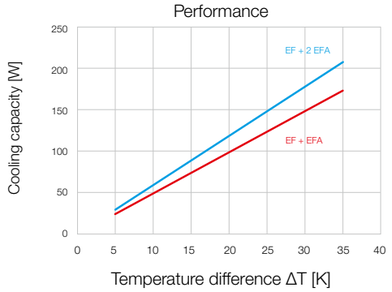
Static pressure diagram



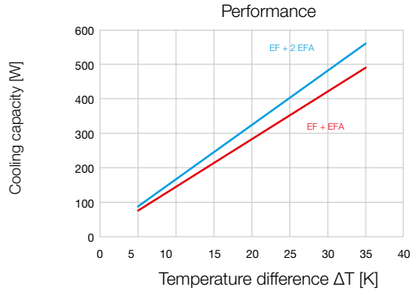
Static pressure diagram



Performance



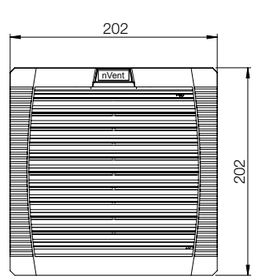
Performance



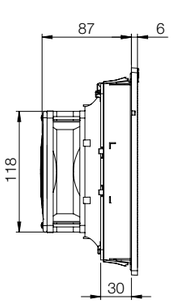
Dimensional drawing | EF/EFA

EF220R5 / EFA220R5

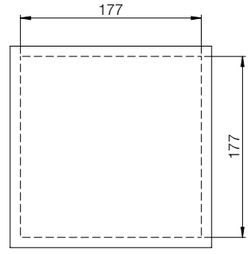
Front view



Side view

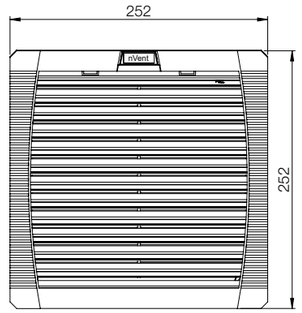


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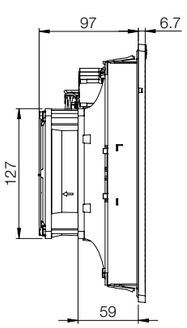


EF250R5 / EFA250R5

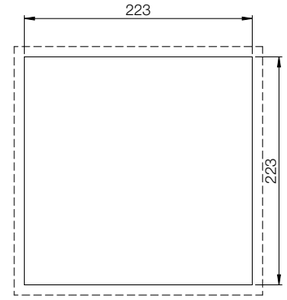
Front view



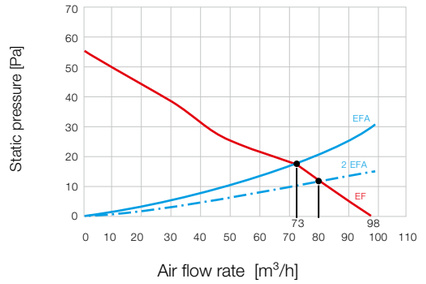
Side view



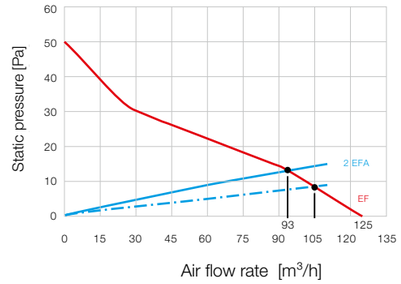
Cut-out



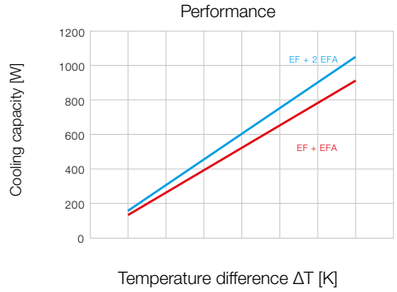
Static pressure diagram



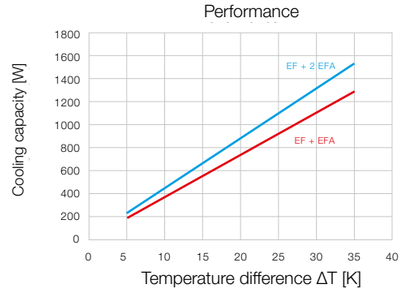
Static pressure diagram



Performance



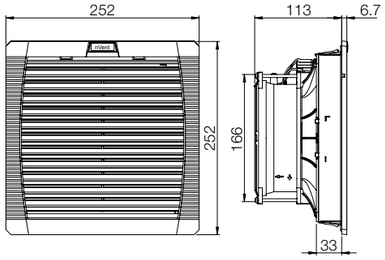
Performance



Dimensional drawing | EF/EFA

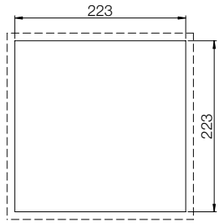
EF300R5 / EFA300R5

Front view

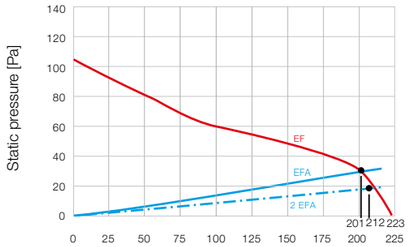


Side view

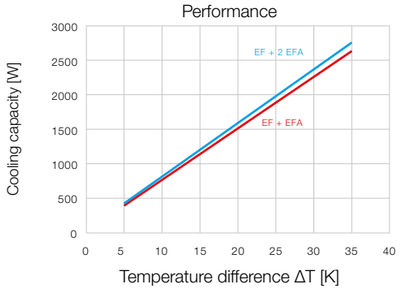
Cut-out



Static pressure diagram

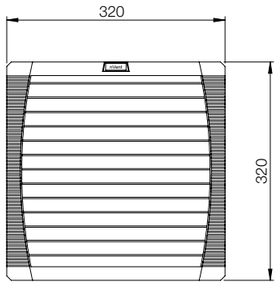


Performance

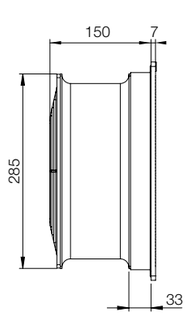


EF500R5 / EFA500R5

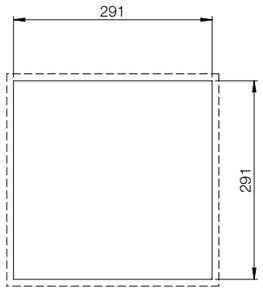
Front view



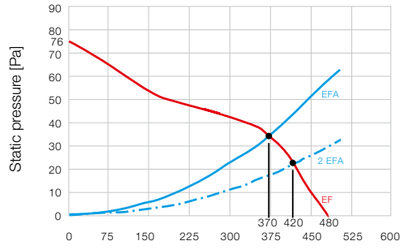
Side view



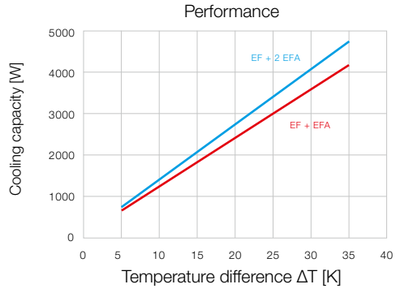
Cut-out



Static pressure diagram



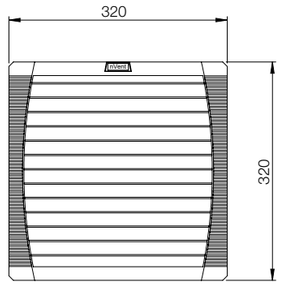
Performance



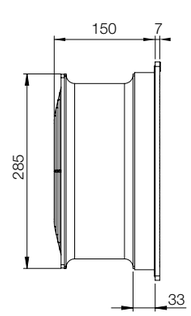
Dimensional drawing | EF/EFA

EF600R5 / EFA600R5

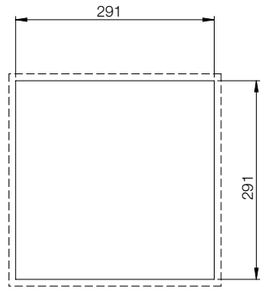
Front view



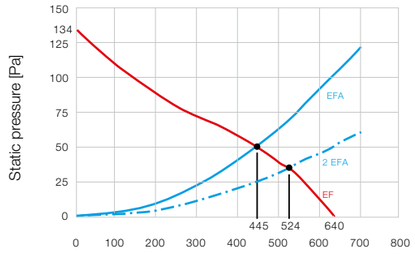
Side view



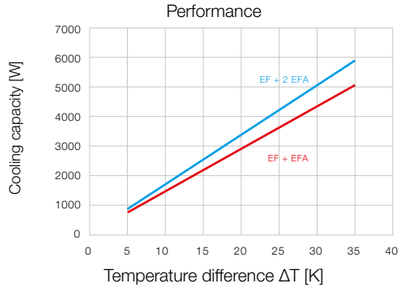
Cut-out



Static pressure diagram

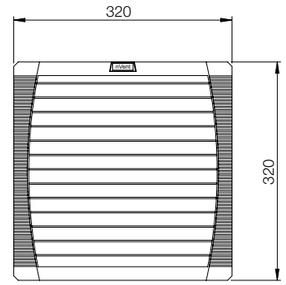


Performance

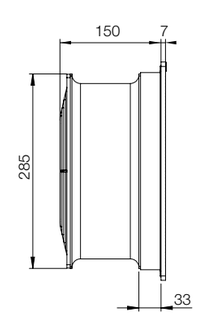


EF700R5 / EFA700R5

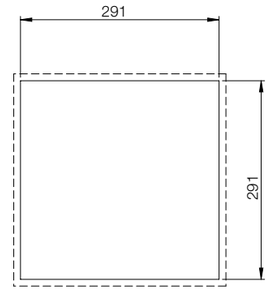
Front view



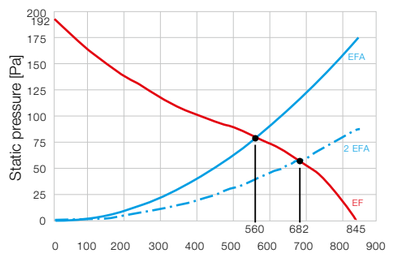
Side view



Cut-out



Static pressure diagram



Performance

