

FF13PA115UFR

standard with fan



FF series exhaust filter and filter fans represents a side-mounted cooling solution with filtered ambient air to maintain optimum ventilation inside the electrical cabinets. Screwless connection, fast tool-free mounting system with clip and maintenance friendliness are the main benefits. Available in a wide range of configurations for both indoor and outdoor use.

Technical data		
APPROVALS		
Approvals	CE; cURus; cULus; cCSAus	
PERFORMANCE		
Max Airflow	100/110	m³/h
	59/65	CFM
Airflow with Exhaust Filter	68/79	m³/h
	40/46	CFM
Max Static Pressure	70/80	Pa
	0.28/0.32	in H2O
ELECTRICAL DATA		
Rated Voltage	115	V a.c.
Rated Current	0.215/0.2	A
Rated Power	18/18	W
Operating Voltage	85-125	V a.c.
Frequency	50/60	Hz
Appliance Class	I	
Motor Protection	Impedance Protected	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	

FF13PA115UFR

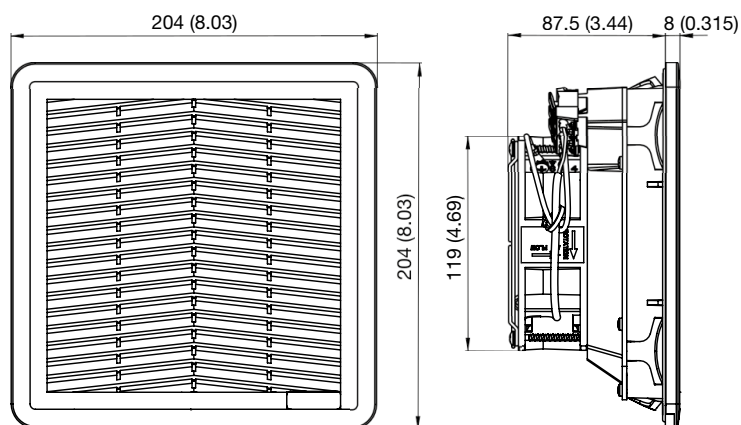
standard with fan

Technical data		
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
Airflow Direction	Reverse	
Electrical Connection	Screwless Terminal Block	
Life Expectancy	57000	h at 25 °C
	57000	h at 77 °F
Wires Section	20-14	AWG
Wires Section	0.75-2.5	mm²
Fan Noise	46/49	dB(A)
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter Material	thermo-linked progressive structure synthetic fibre	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP54	
Operating Temperature	-10÷55	°C
	14÷131	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
UL Ambient Temperature	55	°C
	131	°F

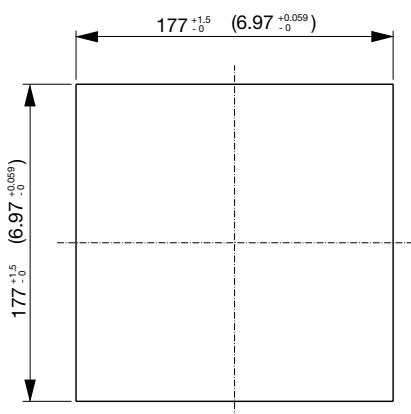
FF13PA115UFR

standard with fan

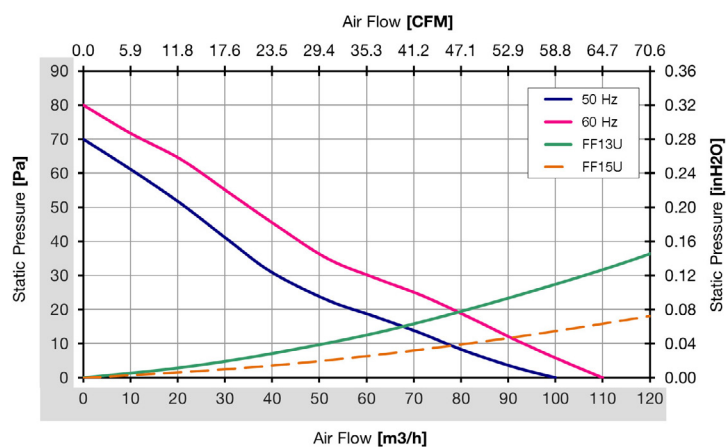
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF13PA230UN

standard with fan



FF series exhaust filter and filter fans represents a side-mounted cooling solution with filtered ambient air to maintain optimum ventilation inside the electrical cabinets. Screwless connection, fast tool-free mounting system with clip and maintenance friendliness are the main benefits. Available in a wide range of configurations for both indoor and outdoor use.

Technical data		
APPROVALS		
Approvals	CE; cURus; cULus; cCSAus	
PERFORMANCE		
Max Airflow	110/130 65/77	m³/h CFM
Airflow with Exhaust Filter	84/100 49/59	m³/h CFM
Max Static Pressure	80/100 0.32/0.40	Pa in H2O
ELECTRICAL DATA		
Rated Voltage	230	V a.c.
Rated Current	0.126/0.11	A
Rated Power	19/17	W
Operating Voltage	184-253	V a.c.
Frequency	50/60	Hz
Appliance Class	I	
Motor Protection	Thermally Protected	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2 0.05-0.13	mm in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	

FF13PA230UN

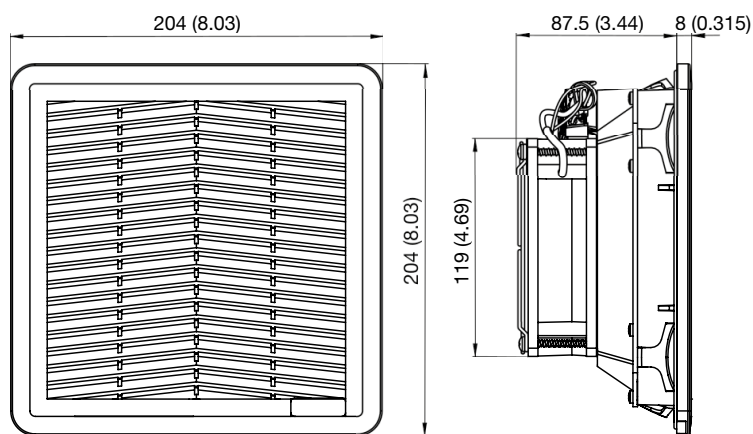
standard with fan

Technical data		
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
Airflow Direction	Direct	
Electrical Connection	Screwless Terminal Block	
Life Expectancy	100000	h at 25 °C
	100000	h at 77 °F
Wires Section	0.75-2.5	mm²
Wires Section	20-14	AWG
Fan Noise	40/44	dB(A)
Filter Class	G3	EN 779
Filter Class	ISO coarse 55%	ISO 16890
Filter Material	thermo-linked progressive structure synthetic fibre	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP54	
Operating Temperature	-10÷55	°C
	14÷131	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
UL Ambient Temperature	55	°C
	131	°F

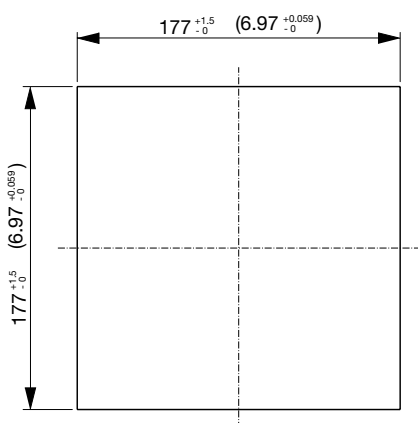
FF13PA230UN

standard with fan

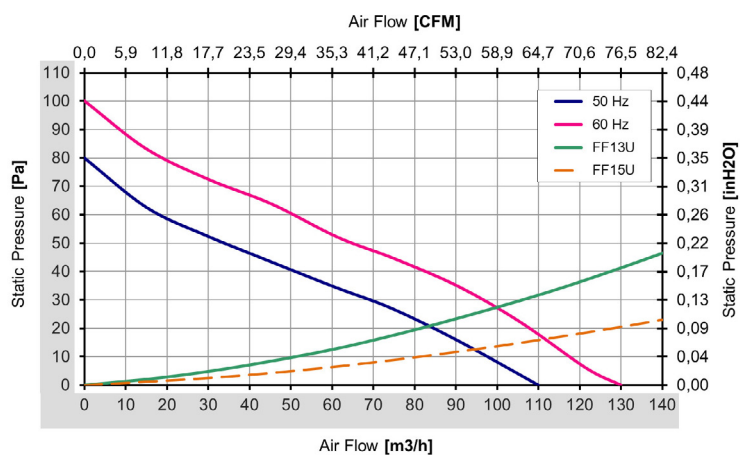
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF13PA230UNR

standard with fan



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Technical data		
APPROVALS		
Approvals	CE; cURus; cULus; cCSAus	
PERFORMANCE		
Max Airflow	112/132	m³/h
	66/78	CFM
Airflow with Exhaust Filter	87/104	m³/h
	51/61	CFM
Max Static Pressure	98/121	Pa
	0.39/0.49	in H2O
ELECTRICAL DATA		
Rated Voltage	230	V a.c.
Rated Current	0.128/0.11	A
Rated Power	19/18	W
Operating Voltage	184-253	V a.c.
Frequency	50/60	Hz
Appliance Class	I	
Motor Protection	Thermally Protected	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	

FF13PA230UNR

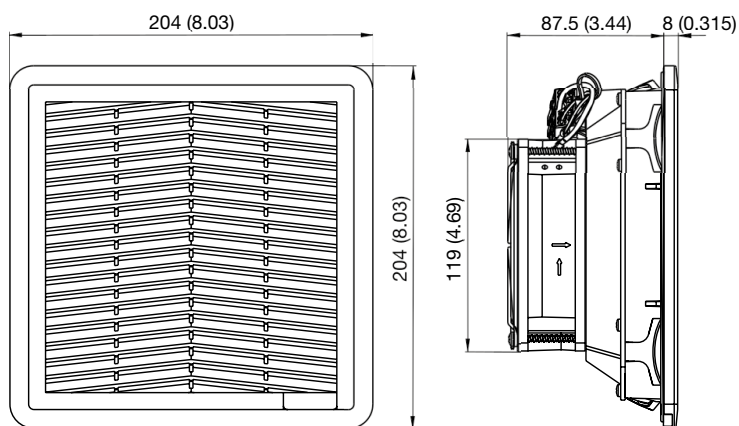
standard with fan

Technical data		
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
Airflow Direction	Reverse	
Electrical Connection	Screwless Terminal Block	
Life Expectancy	100000	h at 25 °C
	100000	h at 77 °F
Wires Section	20-14	AWG
Wires Section	0.75-2.5	mm²
Fan Noise	40/44	dB(A)
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter Material	thermo-linked progressive structure synthetic fibre	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP54	
Operating Temperature	-10÷55	°C
	14÷131	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
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	131	°F

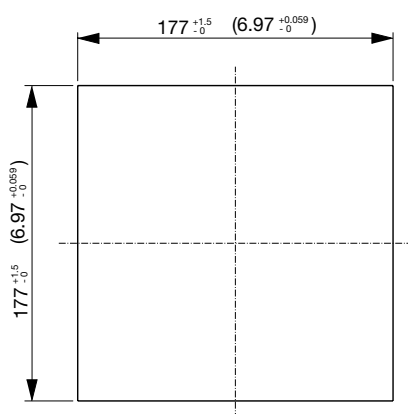
FF13PA230UNR

standard with fan

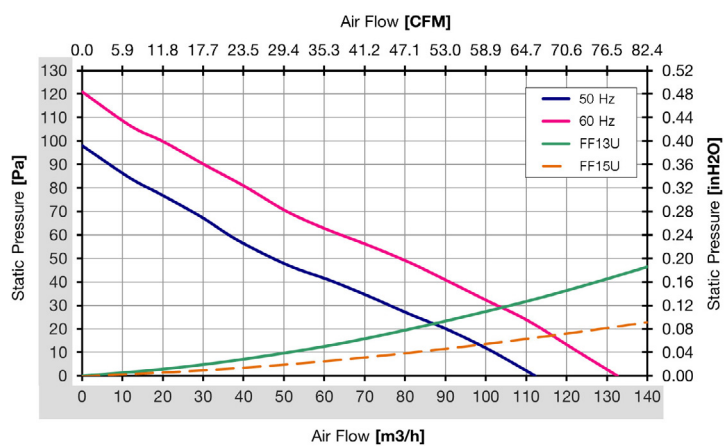
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF13PD24UN

standard with fan



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Technical data		
APPROVALS		
Approvals	CE; UR; cULus; cCSAus	
PERFORMANCE		
Max Airflow	101	m³/h
	59	CFM
Airflow with Exhaust Filter	76	m³/h
	45	CFM
Max Static Pressure	62	Pa
	0.25	in H2O
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.342	A
Rated Power	8.2	W
Operating Voltage	10-26.7	V d.c.
Motor Protection	Electronically Protected	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	

FF13PD24UN

standard with fan

Technical data

Airflow Direction	Direct	
Electrical Connection	Screwless Terminal Block	
Life Expectancy	100000	h at 25 °C
	100000	h at 77 °F
Wires Section	20-14	AWG
Wires Section	0.75-2.5	mm ²
Fan Noise	42	dB(A)
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter Material	thermo-linked progressive structure synthetic fibre	

ENVIRONMENTAL AND THERMAL DATA

IP Protection Degree	IP54	
Operating Temperature	-10÷55	°C
	14÷131	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F

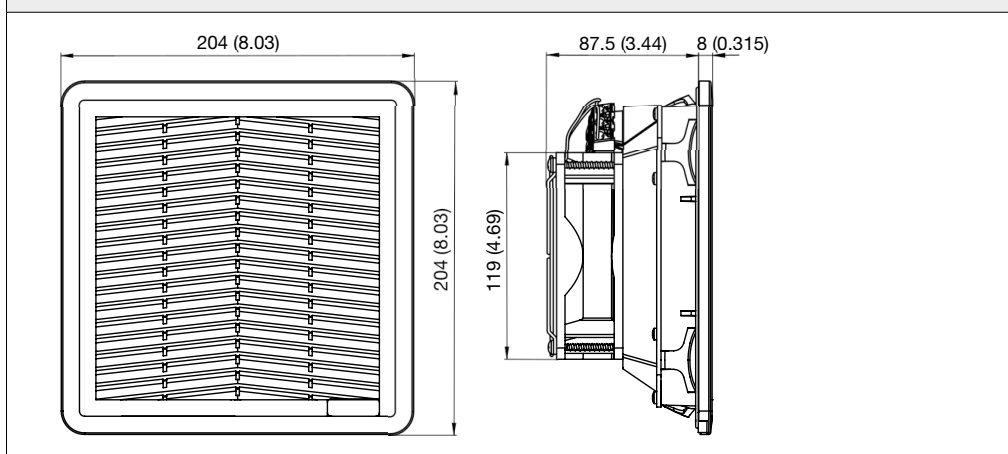
UL DATA

UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
UL Ambient Temperature	55	°C
	131	°F

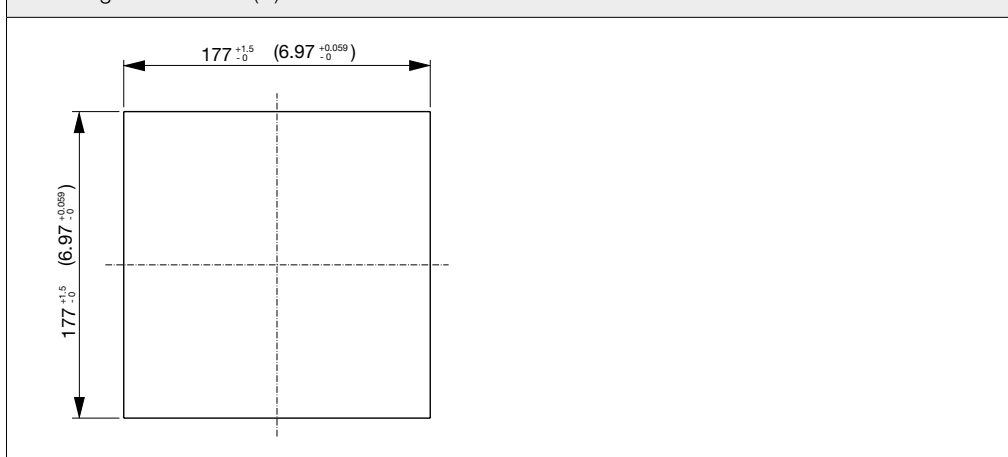
FF13PD24UN

standard with fan

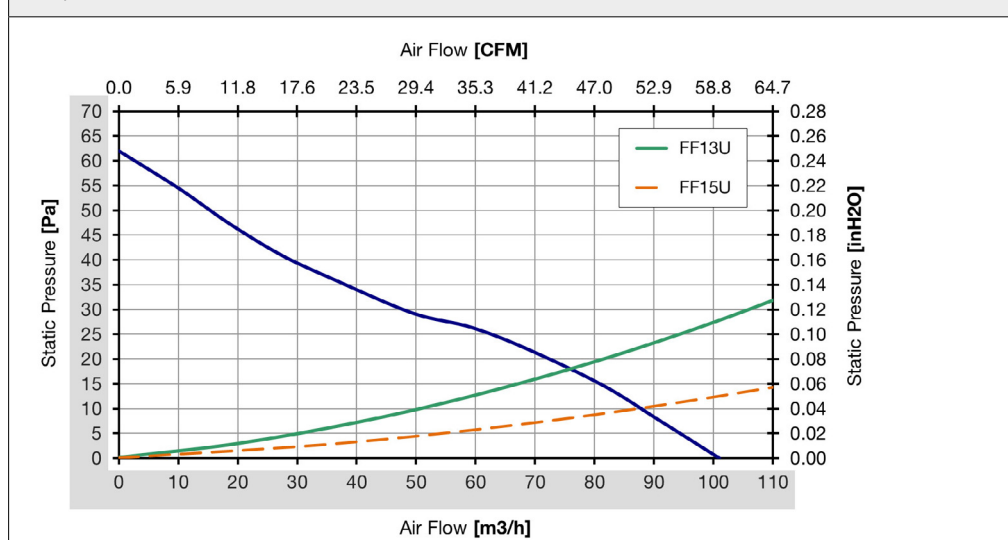
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF13PD24UNR

standard with fan



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Technical data		
APPROVALS		
Approvals	CE; UR; cULus; cCSAus	
PERFORMANCE		
Max Airflow	114	m³/h
	67	CFM
Airflow with Exhaust Filter	96	m³/h
	57	CFM
Max Static Pressure	87	Pa
	0.35	in H2O
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.355	A
Rated Power	8.5	W
Operating Voltage	10-26.7	V d.c.
Motor Protection	Electronically Protected	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	

FF13PD24UNR

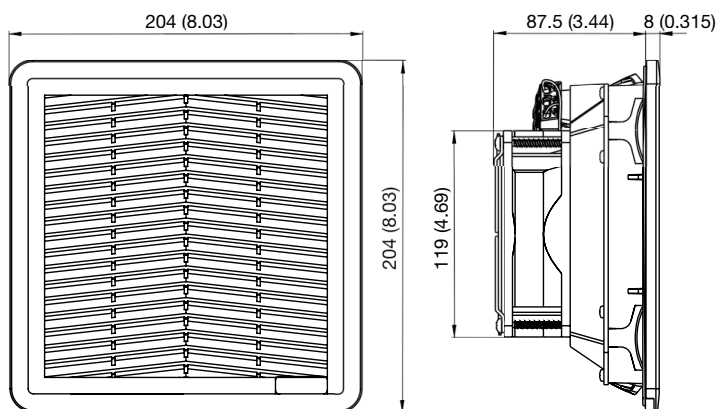
standard with fan

Technical data		
Airflow Direction	Reverse	
Electrical Connection	Screwless Terminal Block	
Life Expectancy	100000	h at 25 °C
	100000	h at 77 °F
Wires Section	20-14	AWG
Wires Section	0.75-2.5	mm²
Fan Noise	42	dB(A)
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter Material	thermo-linked progressive structure synthetic fibre	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP54	
Operating Temperature	-10÷55	°C
	14÷131	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
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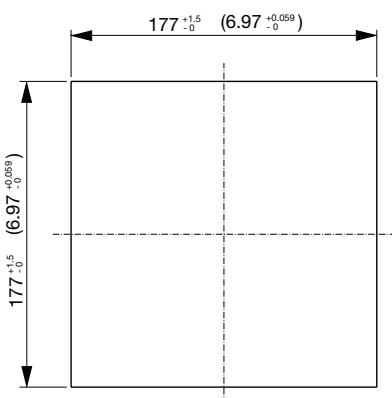
FF13PD24UNR

standard with fan

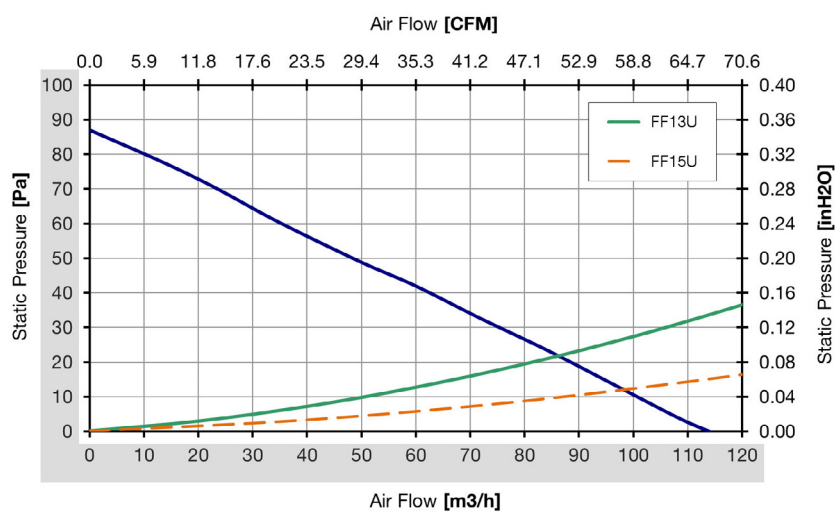
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF13U

standard without fan



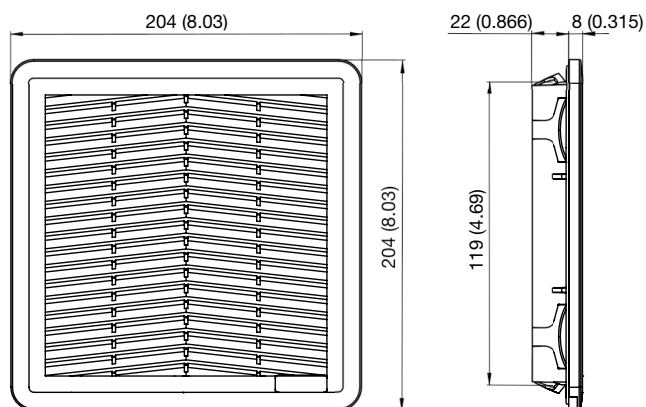
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Technical data		
APPROVALS		
Approvals	CE; cURus; cULus; cCSAus	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter Material	thermo-linked progressive structure synthetic fibre	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP54	
Operating Temperature	-30÷60	°C
	-22÷140	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
Technical data		
UL Ambient Temperature	60	°C
	140	°F

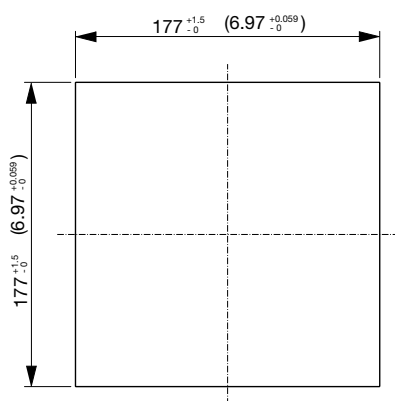
FF13U

standard without fan

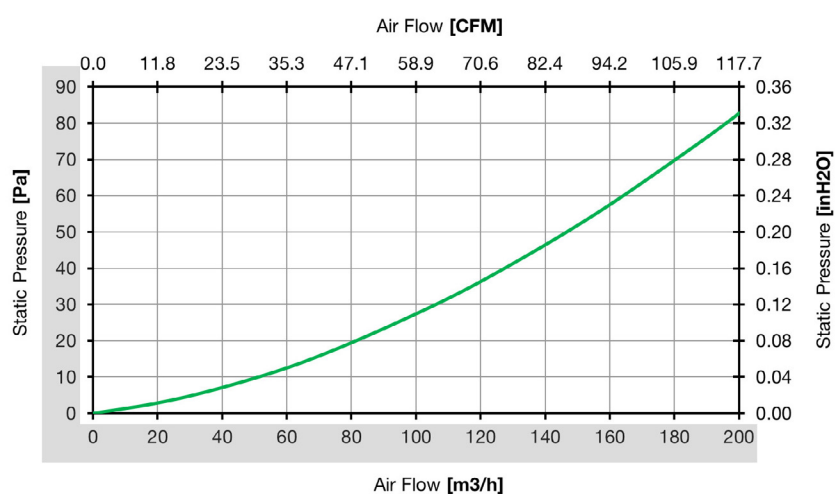
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF13UC

EMC version without fan



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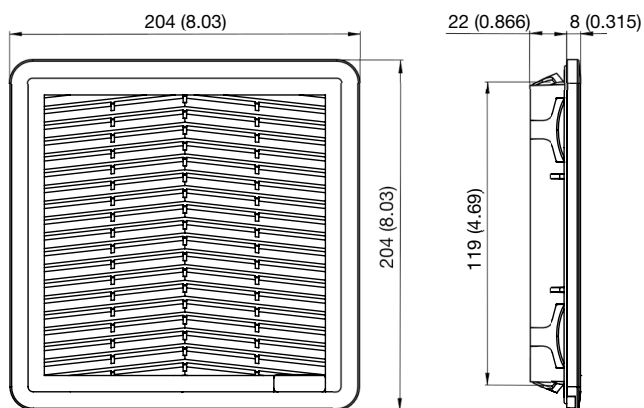
Technical data		
APPROVALS		
Approvals	CE; cURus; cULus; cCSAus	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M13FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter Material	thermo-linked progressive structure synthetic fibre	
ENVIRONMENTAL AND THERMAL DATA		
IP Protection Degree	IP54	
Operating Temperature	-30÷60	°C
	-22÷140	°F
Storage Temperature	-40÷70	°C
	-40÷158	°F
UL DATA		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	

Technical data		
UL Ambient Temperature	60	°C
	140	°F

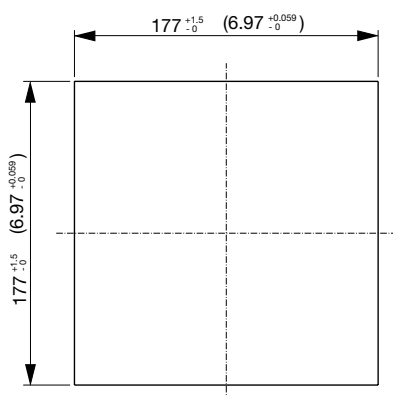
FF13UC

EMC version without fan

Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance

