

FF12A115UNR

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	57/69	m³/h
	34/41	CFM
Airflow with Exhaust Filter	42/50	m³/h
	25/29	CFM
Max Static Pressure	82/105	Pa
	0.33/0.42	in H2O
ELECTRICAL DATA		
Rated Voltage	115	V a.c.
Rated Current	0.26/0.22	A
Rated Power	19/17	W
Operating Voltage	92-126.5	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	M12FPF-EU3	

FF12A115UNR

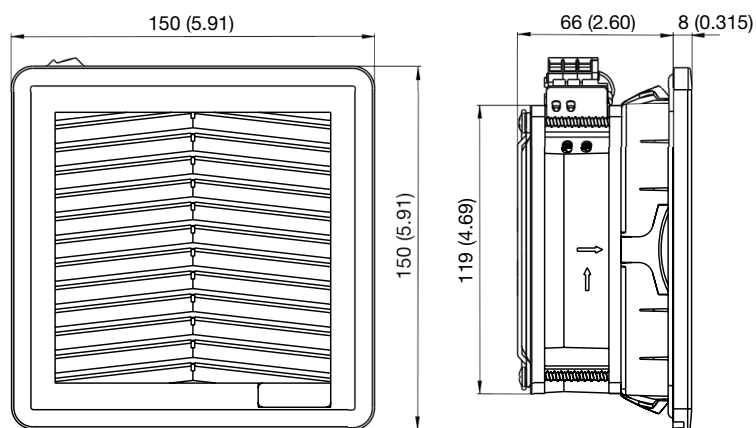
standard with fan

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	28-14	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		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
UL Ambient Temperature	55	°C
	131	°F

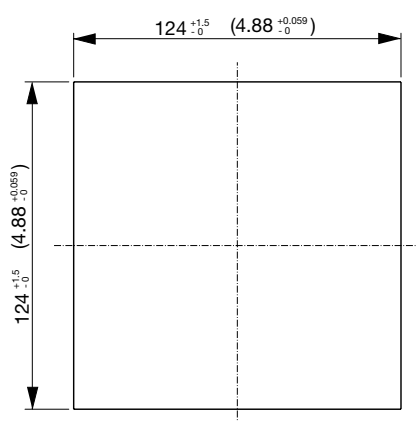
FF12A115UNR

standard with fan

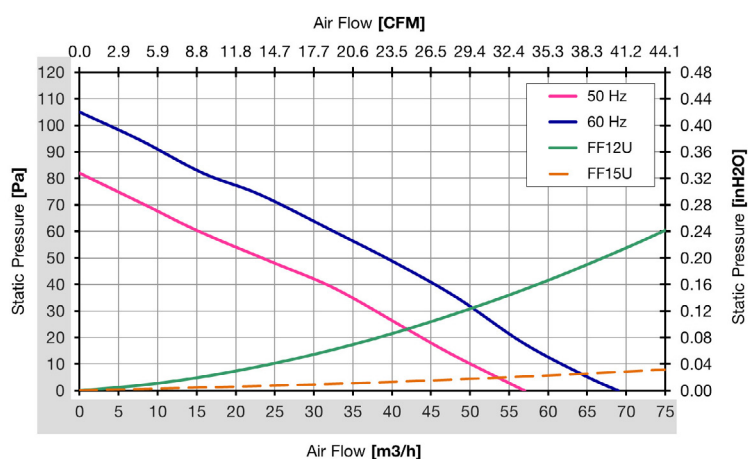
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF12A230UF

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	45/50	m³/h
	26/29	CFM
Airflow with Exhaust Filter	29/34	m³/h
	17/20	CFM
Max Static Pressure	55/62	Pa
	0.22/0.25	in H2O
ELECTRICAL DATA		
Rated Voltage	230	V a.c.
Rated Current	0.11/0.1	A
Rated Power	18/17	W
Operating Voltage	216-244	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	M12FPF-EU3	

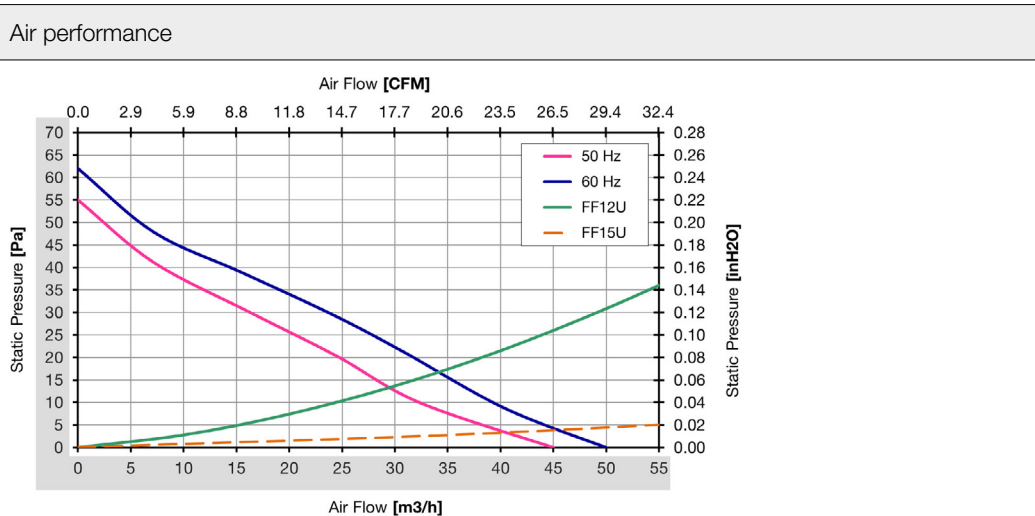
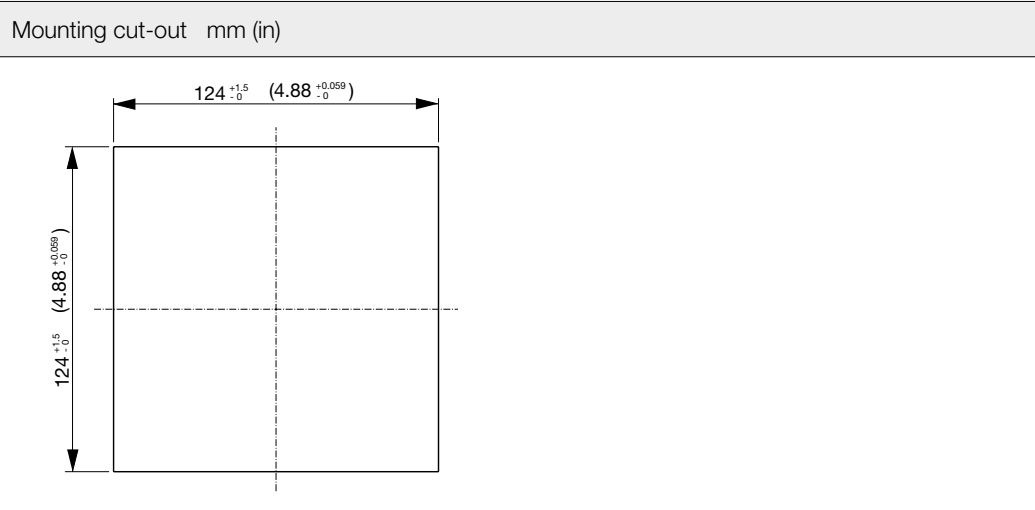
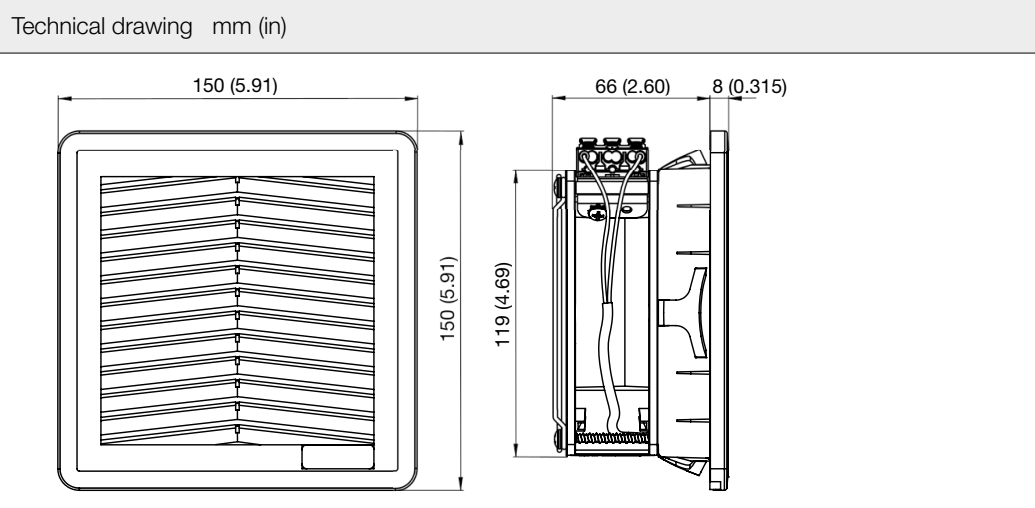
FF12A230UF

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	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

FF12A230UF

standard with fan



FF12A230UN

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	67/79	m³/h
	39/46	CFM
Airflow with Exhaust Filter	43/51	m³/h
	25/30	CFM
Max Static Pressure	69/84	Pa
	0.28/0.34	in H2O
ELECTRICAL DATA		
Rated Voltage	230	V a.c.
Rated Current	0.13/0.1	A
Rated Power	18/16	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	M12FPF-EU3	

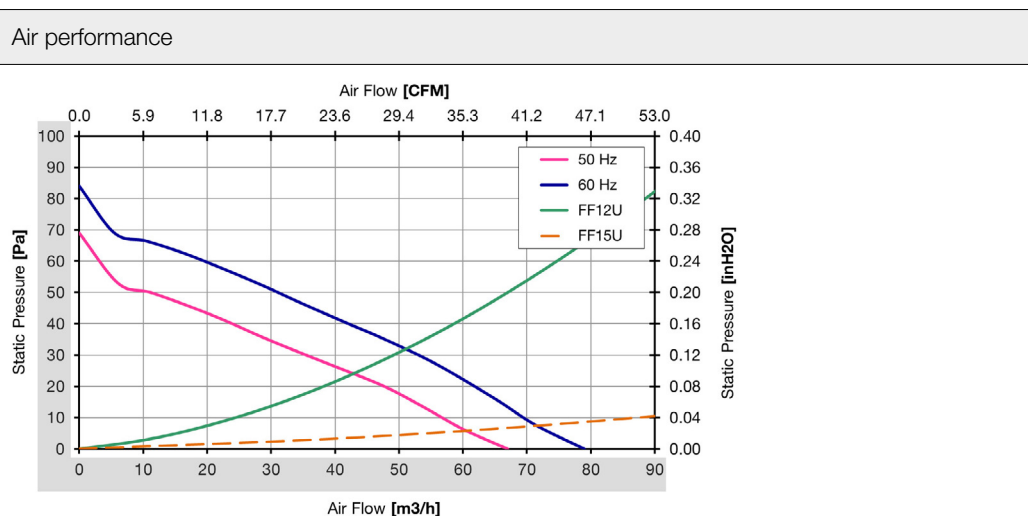
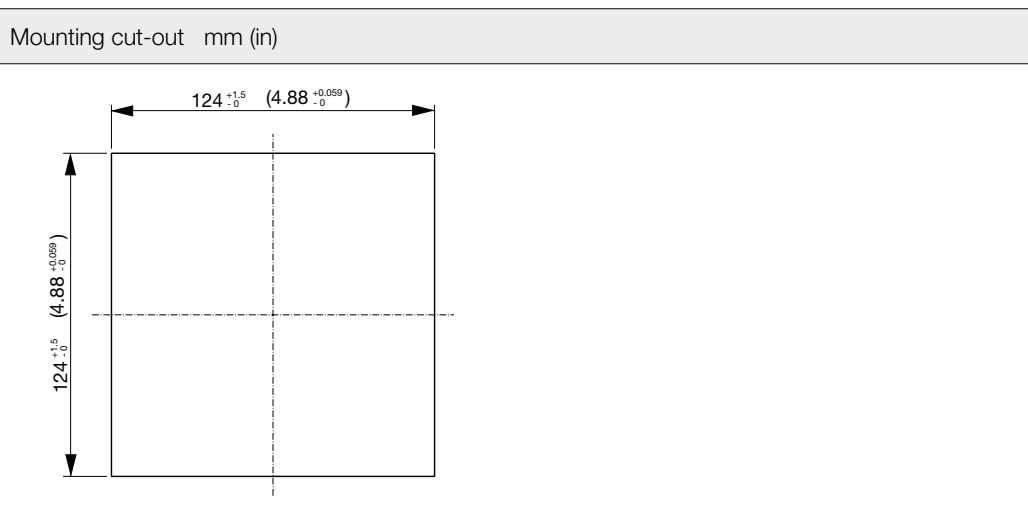
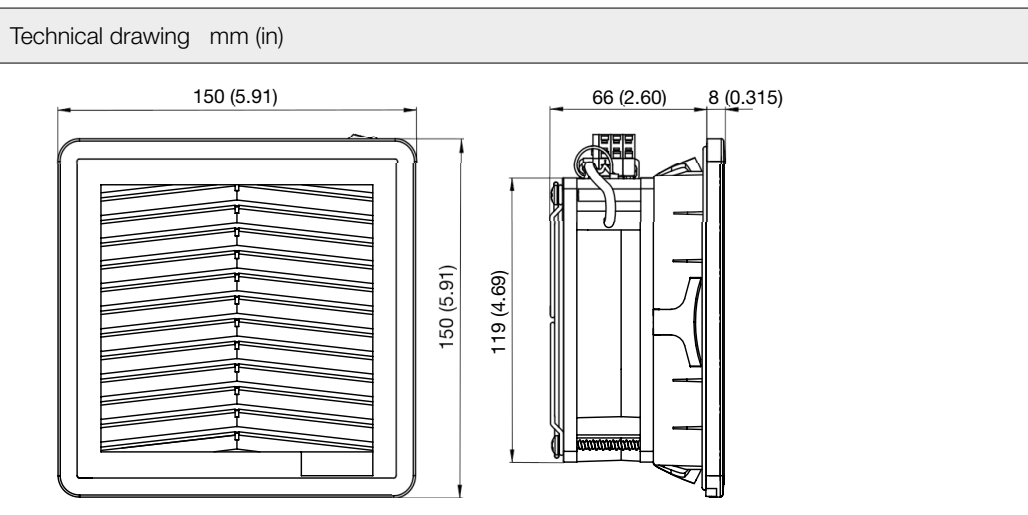
FF12A230UN

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	28-14	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		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
UL Ambient Temperature	55	°C
	131	°F

FF12A230UN

standard with fan



FF12A230UNR

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	57/69	m³/h
	34/41	CFM
Airflow with Exhaust Filter	42/50	m³/h
	25/29	CFM
Max Static Pressure	82/105	Pa
	0.33/0.42	in H2O
ELECTRICAL DATA		
Rated Voltage	230	V a.c.
Rated Current	0.13/0.1	A
Rated Power	18/16	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	M12FPF-EU3	

FF12A230UNR

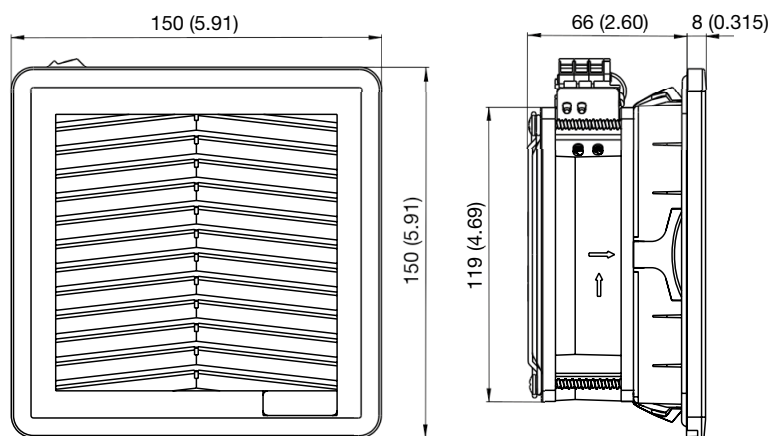
standard with fan

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	28-14	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		
UL File Number Recognized Component	E237844	
UL File Number Listed	E500932	
UL Environmental Type Rating	Type 12	
UL Ambient Temperature	55	°C
	131	°F

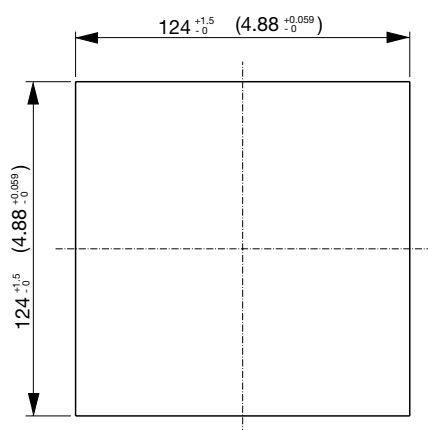
FF12A230UNR

standard with fan

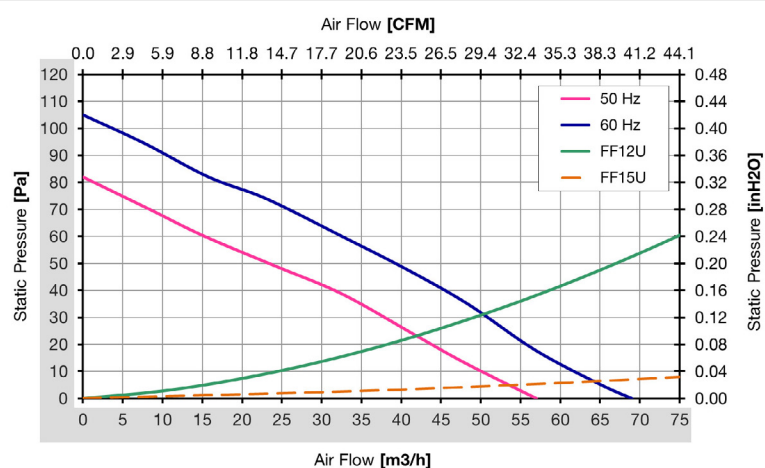
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF12D24UN

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; UR; cULus; cCSAus	
PERFORMANCE		
Max Airflow	46	m³/h
	27	CFM
Airflow with Exhaust Filter	33	m³/h
	19	CFM
Max Static Pressure	58	Pa
	0.23	in H2O
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.31	A
Rated Power	7.4	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	M12FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	

FF12D24UN

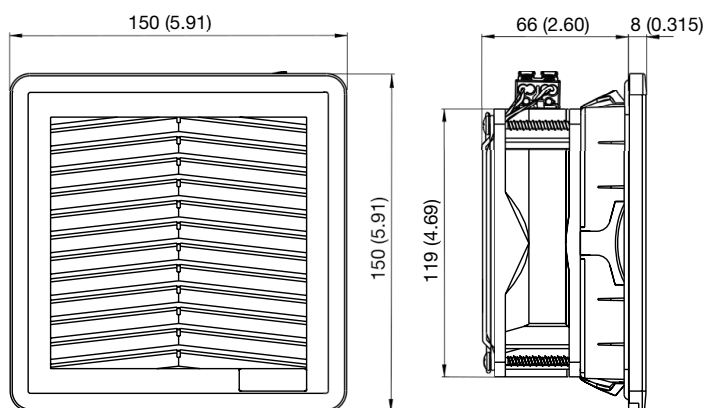
standard with fan

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	mm²
Fan Noise	42.5	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

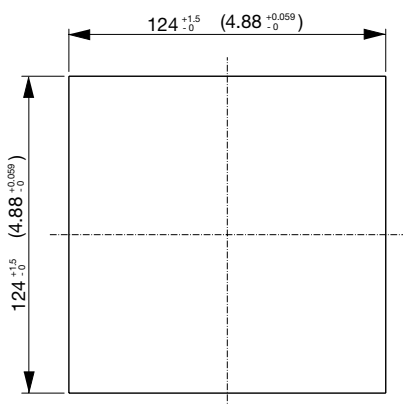
FF12D24UN

standard with fan

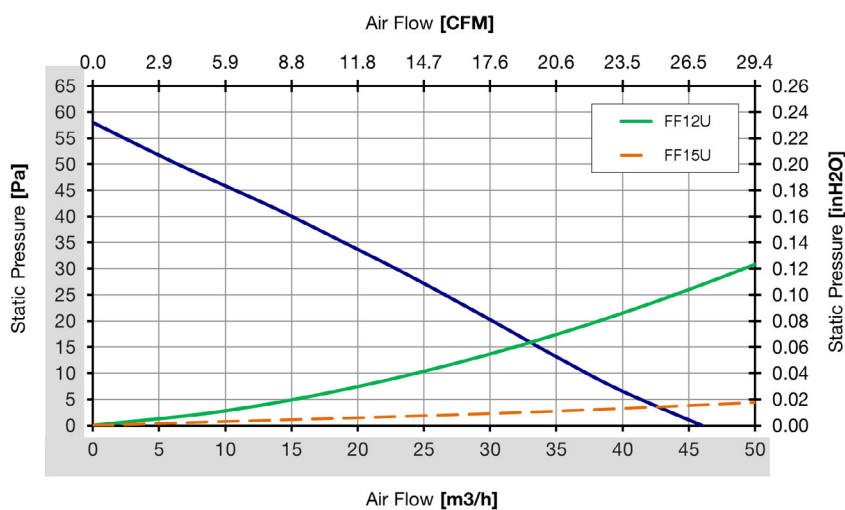
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF12D24UNR

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; UR; cULus; cCSAus	
PERFORMANCE		
Max Airflow	63	m³/h
	37	CFM
Airflow with Exhaust Filter	46	m³/h
	27	CFM
Max Static Pressure	82	Pa
	0.33	in H2O
ELECTRICAL DATA		
Rated Voltage	24	V d.c.
Rated Current	0.31	A
Rated Power	7.4	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	M12FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	

FF12D24UNR

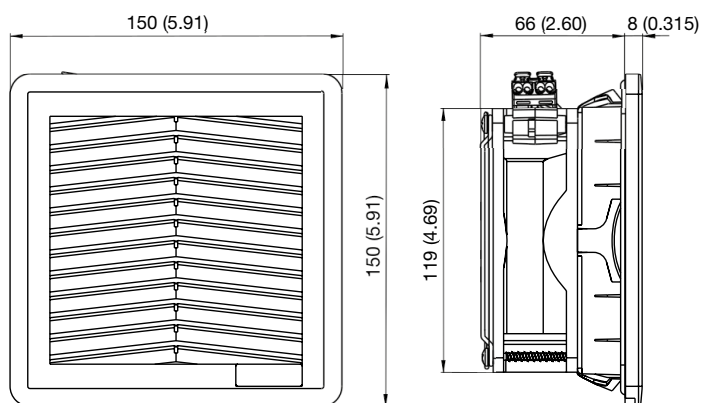
standard with fan

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	42.5	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

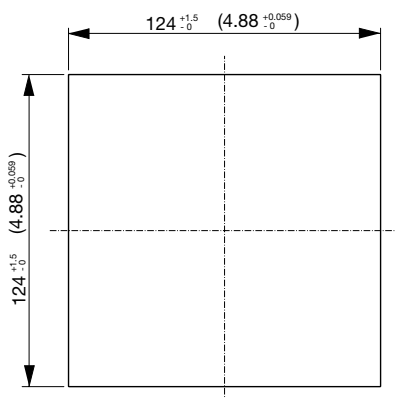
FF12D24UNR

standard with fan

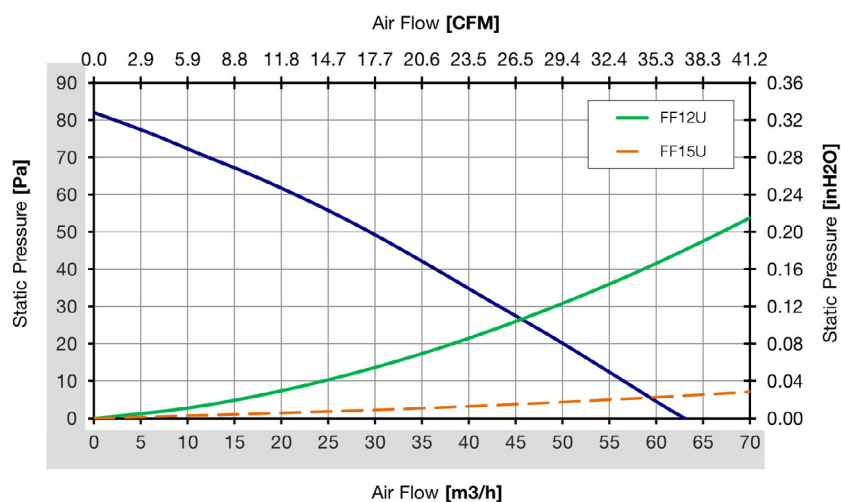
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF12U

standard without 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.

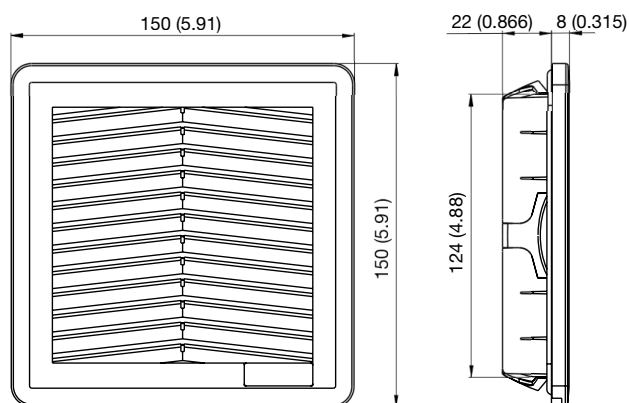
Technical data		
APPROVALS		
Approvals	CE; cURus; cULus; cCSAus	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M12FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
Filter Class	ISO coarse 55%	ISO 16890
Filter Class	G3	EN 779
Filter 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

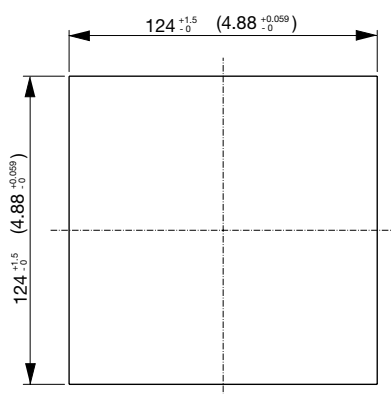
FF12U

standard without fan

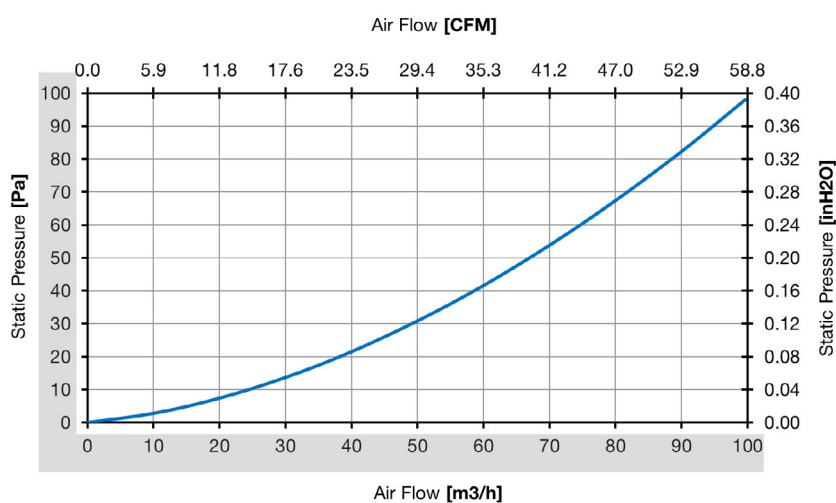
Technical drawing mm (in)



Mounting cut-out mm (in)



Air performance



FF12UC

EMC version without 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; UKCA	
MECHANICAL DATA		
Mounting Wall Thickness	1.3-3.2	mm
	0.05-0.13	in
GENERIC DATA		
Spare Parts Filter Media	M12FPF-EU3	
Casing Material	PC/ABS UL94 V-0	
RAL Number	7035	
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	-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	

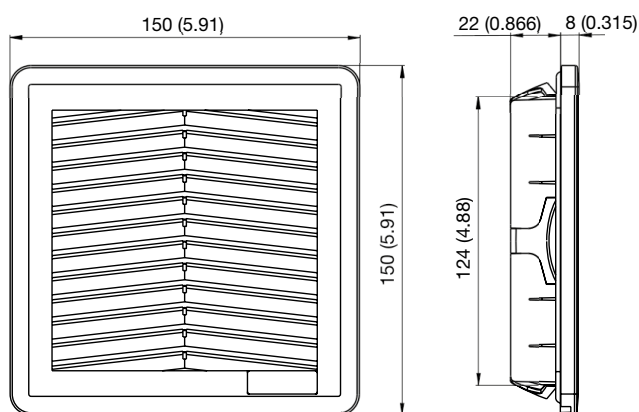
FF12UC

EMC version without fan

Technical data

UL Ambient Temperature	60	°C
	140	°F

Technical drawing mm (in)



Mounting cut-out mm (in)

