



Ventilation Units with Pre Filter On Face **AM-BF-VU-AC**



APPLICATION

Aire Maskin Double Skin fans are specially designed for supply and exhaust ventilation of premises requiring high pressure, powerful air flow and low noise level. These fans are featured with wide capabilities and high performance. The range includes capacity from 100 cfm to 7000 cfm with pressure range from 100 Pa to 750 Pa. No condensate formation can be used for Outdoor Applications also.

AREAS OF APPLICATION

Hospitals / Isolation Rooms / COVID Wards / labs / Offices / Hotels / Bars / Industrial Buildings / Basement Rooms / Greenhouses / Parking Facilities / Warehouses / Nursing Homes / Schools / Sports Halls / Super Markets / Workshops / Residential Houses / Fitness Centers

DESIGN

Casing:

- The housing is made of an extruded aluminium anodized profile with corners made of plastic.
- **OPTION I** - Double skinned (25mm / 50 mm) galvanized steel panels insulated with Puff Insulation. Outer GSS sheet minimum 0.8 mm thick and inner 0.6 mm thick as standard. The inner and outer thickness can be increased as per client requirement.
- **OPTION II - PREMIUM UNITS WITH LOW NOISE LEVELS**
Double skin with Thick insulating layer of non-combustible, heat-insulated, sound that ensures silent fan operation in combination with high aerodynamic characteristics. Outer GSS sheet minimum 1 mm thick and inner 1 mm thick perforated sheet as standard. Special inner perforation of the casing and sound-insulating material is designed for wide-frequency sound absorption. The inner casing perforation let sound waves pass through the holes and fall at a specific angle to the sound absorbing layer there by making unit with low noise levels.

IMPELLERS

The Backward curve impellers are balanced dynamically together with the external rotor motors at two levels according to quality level G2.5/G6.3 to DIN ISO 21940-11.

MOTOR

All fans are equipped with direct driven external rotor motors i.e the motors is fitted with impeller with low energy demand. This makes unit compact and hence a lot of space is saved. The motor comes with double ball bearing motor with built in thermal overload protection and Class F Insulation. In addition External rotor motors have extremely low starting currents and the windings have a standard moisture impregnation.

WIRING

The junction / terminal box is affixed to the motor housing.

SPEED CONTROL

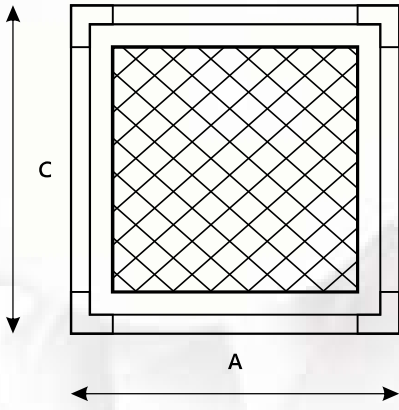
Smooth speed control is possible with an external thyristor speed controller (available upon separate order)

FILTER SPECIFICATION

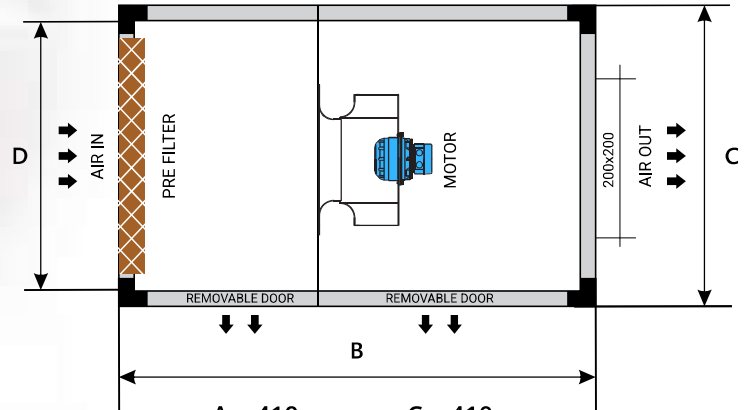
- Filter Class as per EN 779:2012 : G4
- MERV Rating as per ASHRAE 52.2 : 8
- Particulate Efficiency : $\geq 90\%$ down to 10 micron
- Filter depth is 50 mm



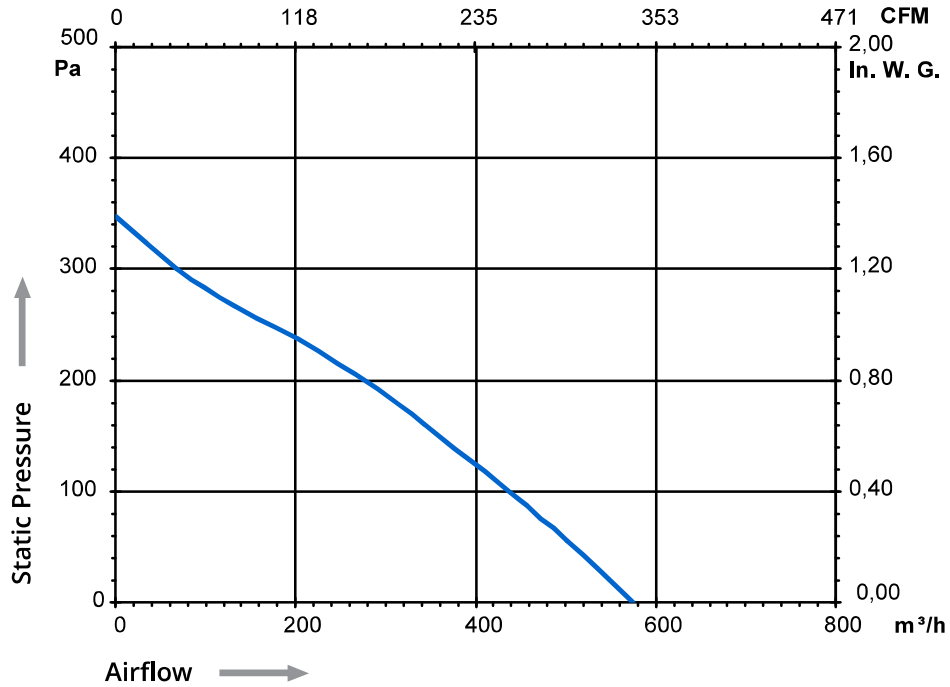
AM- BF- VU - AC- 192



Filter Size : 305 x 305 x 50

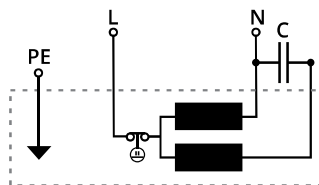


A = 410
B = 640
C = 410
D = 350



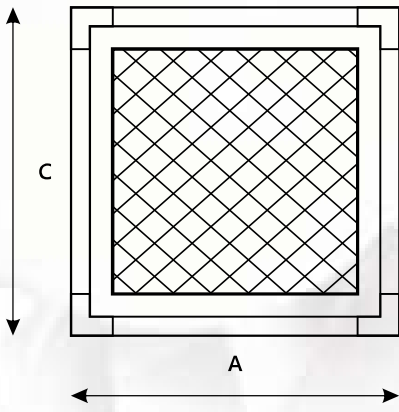
SPECIFICATIONS

Voltage [V]	Power [W]	Current [A]	Frequency [Hz]	Capacitor [µF]	RPM	dBA	Temp min / max	Weight	IP
230	62	0.28	50	2.0	2510	45	-20°C / +70°C	23 Kg	IP 44

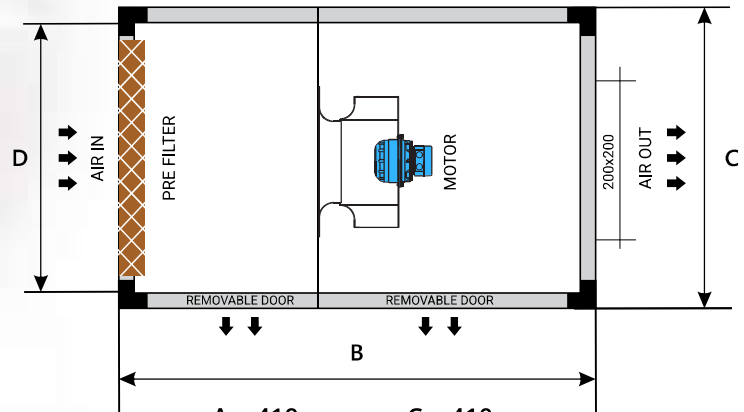


PE - Green / Yellow
L - Blue
N - Black
C - Brown

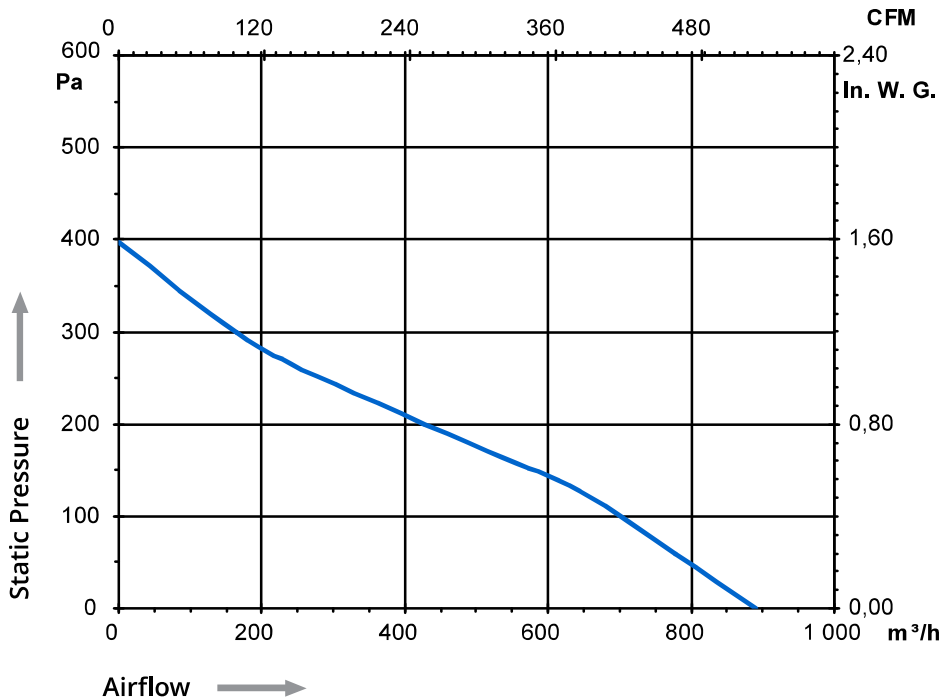
AM- BF- VU - AC- 220



Filter Size : 305 x 305 x 50

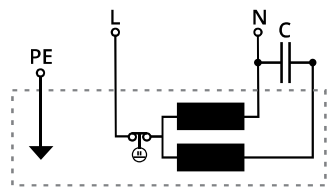


A = 410
B = 640
C = 410
D = 350



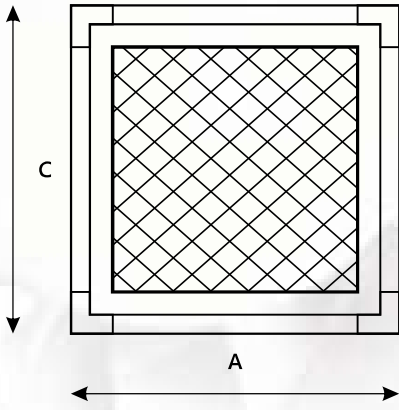
SPECIFICATIONS

Voltage [V]	Power [W]	Current [A]	Frequency [Hz]	Capacitor [µF]	RPM	dBA	Temp min / max	Weight	IP
230	84	0.38	50	2.0	2350	43	-20°C / +70°C	23 Kg	IP 44

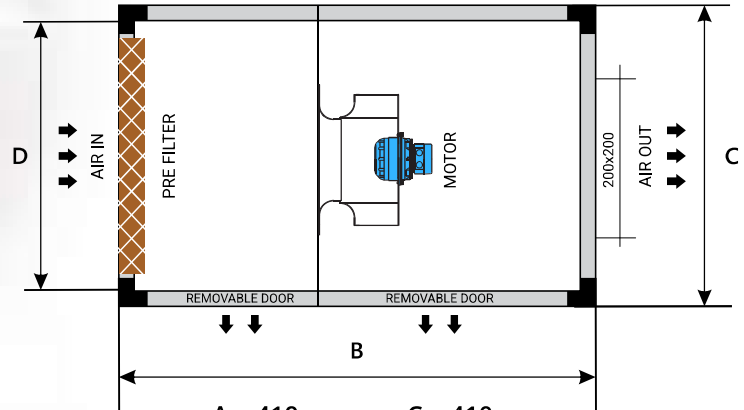


- PE - Green / Yellow
- L - Blue
- N - Black
- C - Brown

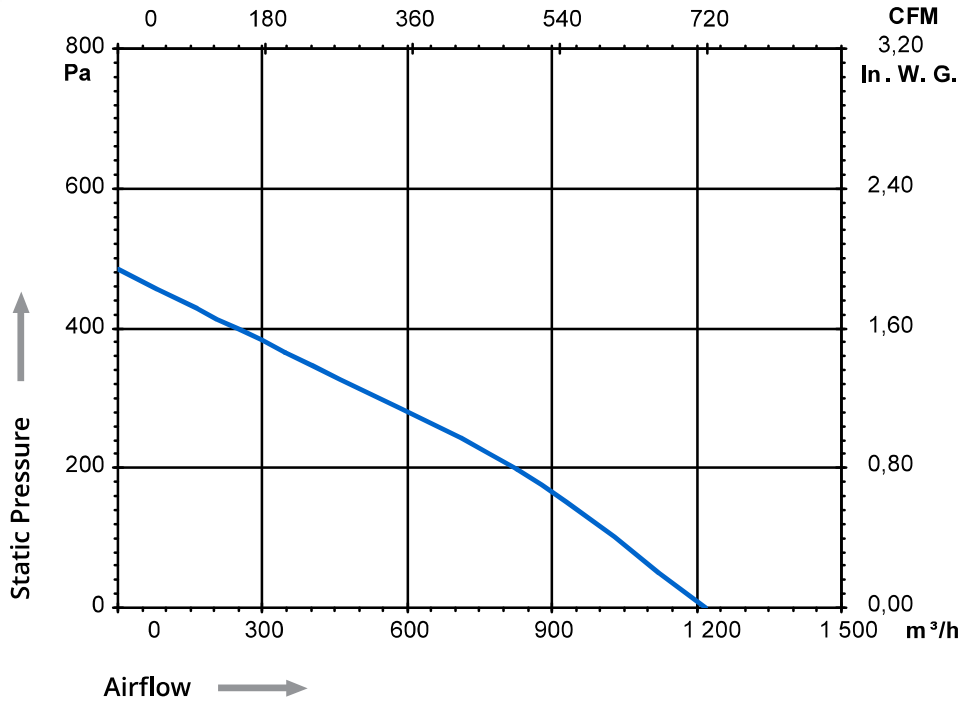
AM- BF- VU - AC- 225



Filter Size : 305 x 305 x 50

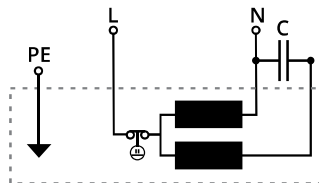


A = 410
B = 640
C = 410
D = 350



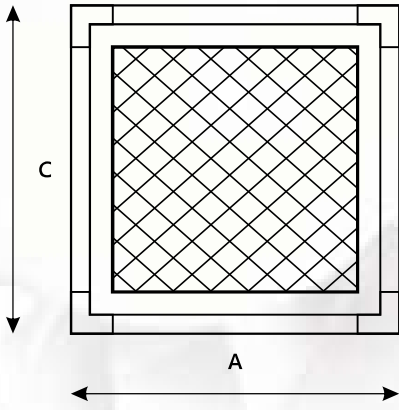
SPECIFICATIONS

Voltage [V]	Power [W]	Current [A]	Frequency [Hz]	Capacitor [μ F]	RPM	dBA	Temp min / max	Weight	IP
230	143	0.63	50	4.0	2505	45	-20°C / +70°C	24 Kg	IP 44

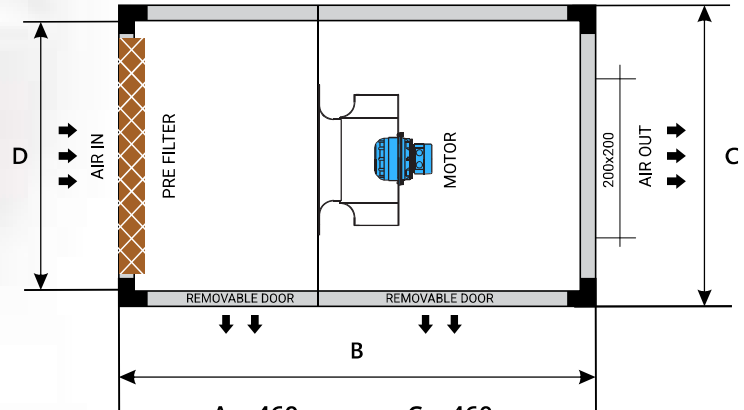


PE - Green / Yellow
L - Blue
N - Black
C - Brown

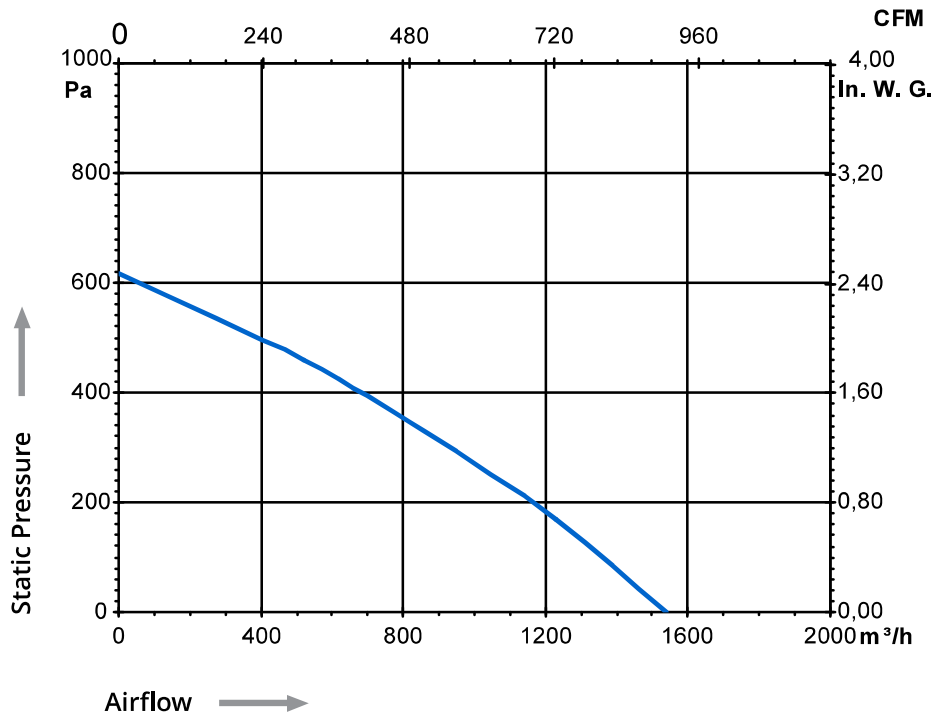
AM- BF- VU - AC- 250



Filter Size : 305 x 305 x 50

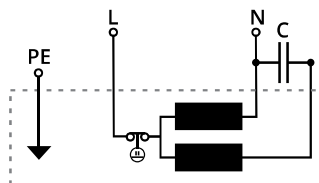


A = 460 C = 460
B = 690 D = 400



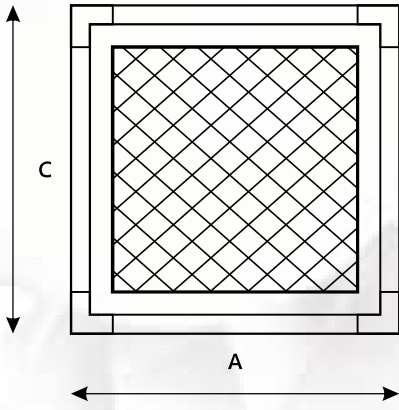
SPECIFICATIONS

Voltage [V]	Power [W]	Current [A]	Frequency [Hz]	Capacitor [µF]	RPM	dBA	Temp min / max	Weight	IP
230	190	0.83	50	6.0	2700	46	-20°C / +60°C	29 Kg	IP 44

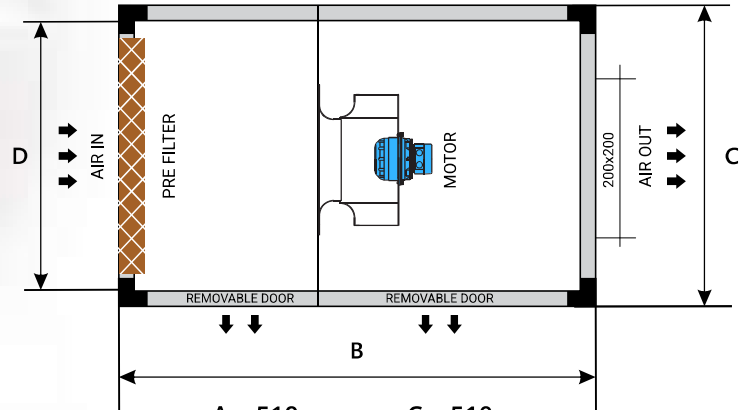


PE - Green / Yellow
L - Blue
N - Black
C - Brown

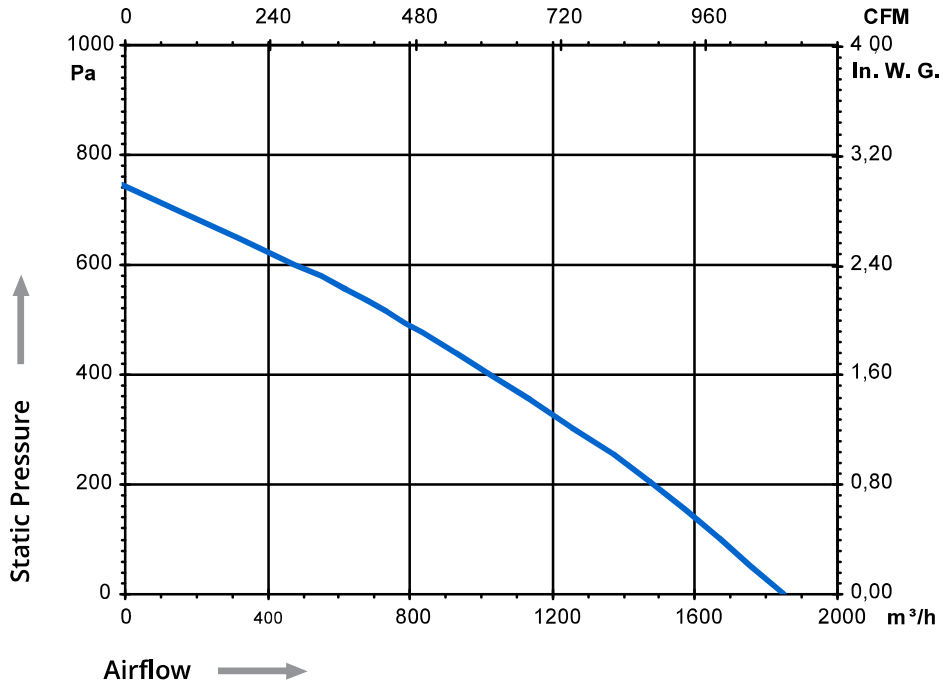
AM- BF- VU - AC- 280x4



Filter Size : 305 x 305 x 50

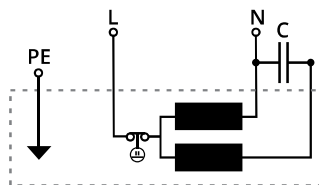


A = 510
B = 740
C = 510
D = 450



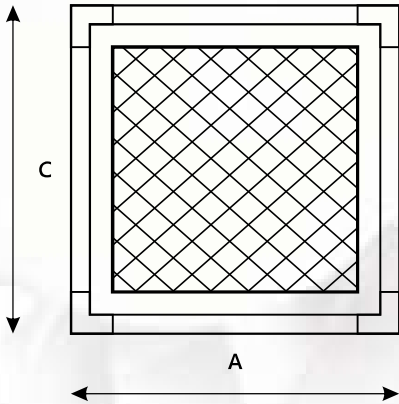
SPECIFICATIONS

Voltage [V]	Power [W]	Current [A]	Frequency [Hz]	Capacitor [µF]	RPM	dBA	Temp min / max	Weight	IP 44
230	216	0.98	50	8.0	2735	46	-20°C / +60°C	34 Kg	IP 44

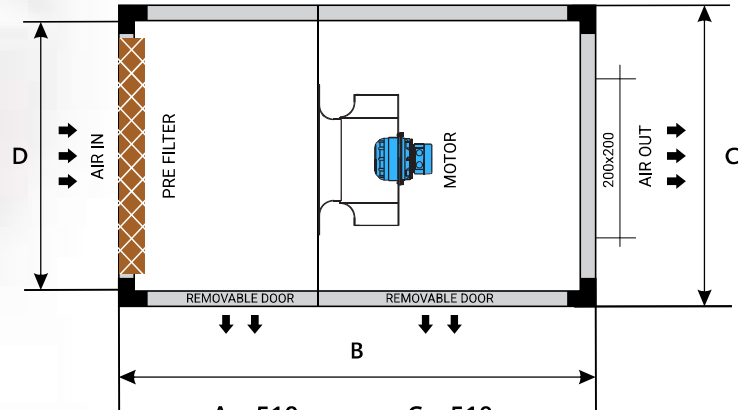


PE - Green / Yellow
L - Blue
N - Black
C - Brown

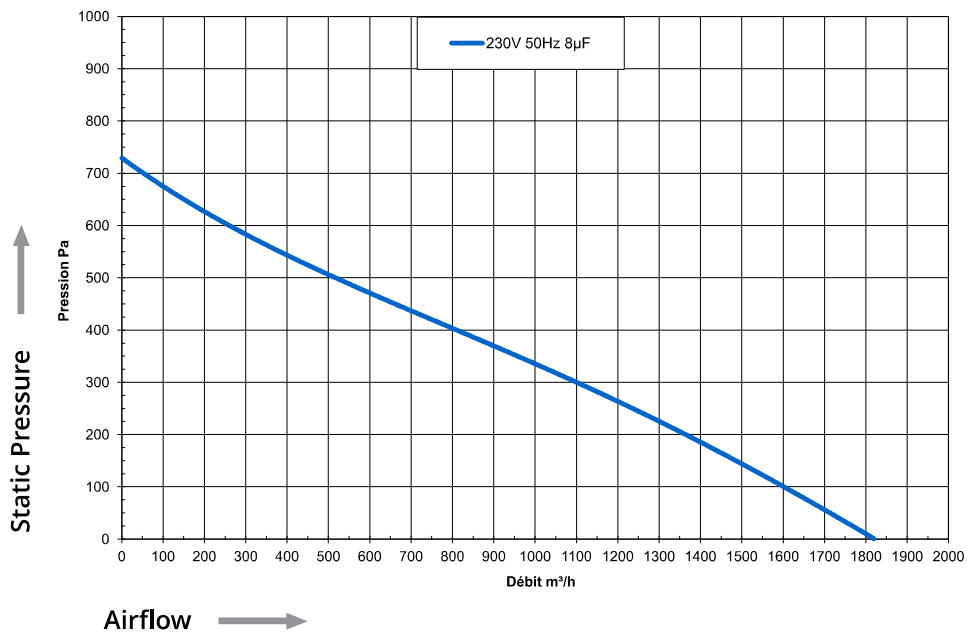
AM- BF- VU - AC- 280x5



Filter Size : 305 x 305 x 50

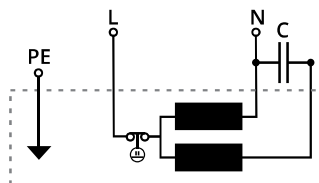


A = 510
B = 740
C = 510
D = 450



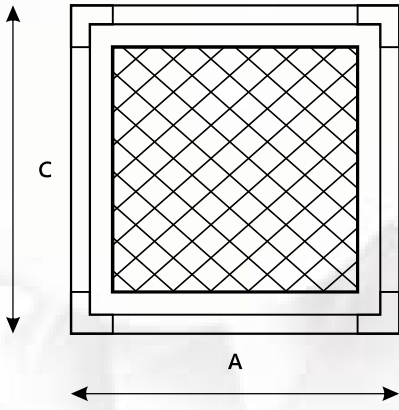
SPECIFICATIONS

Voltage [V]	Power [W]	Current [A]	Frequency [Hz]	Capacitor [µF]	RPM	dBA	Temp min / max	Weight	IP 44
230	225	1.02	50	8.0	2635	48	-20°C / +70°C	34 Kg	IP 44

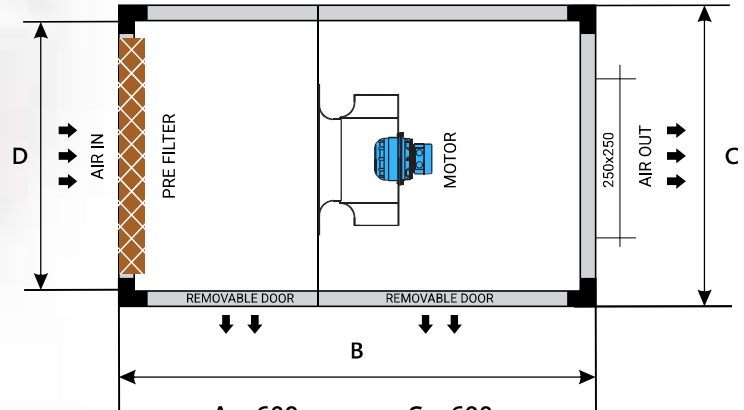


PE - Green / Yellow
L - Blue
N - Black
C - Brown

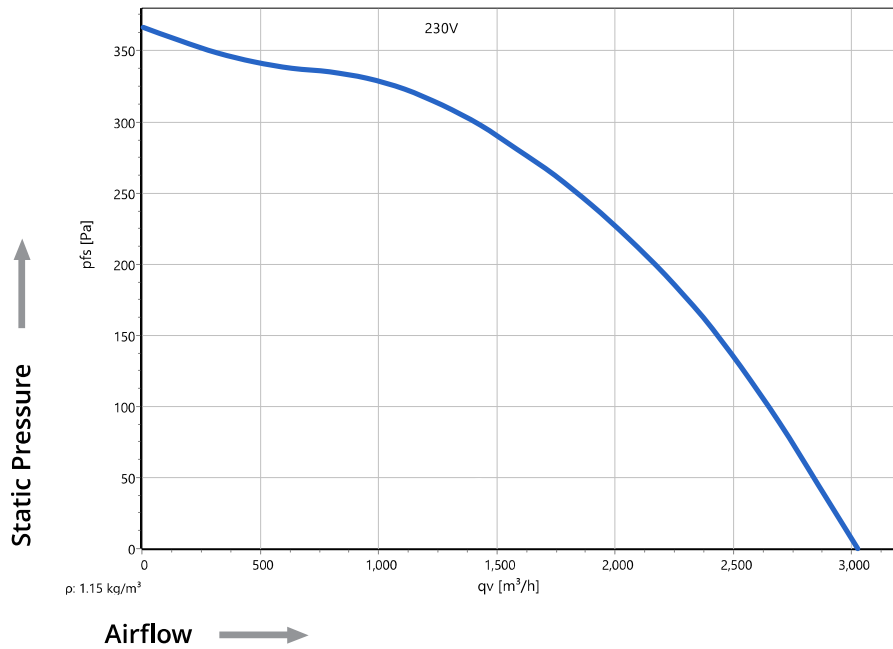
AM- BF- VU - AC- 355



Filter Size : 500 x 500 x 50

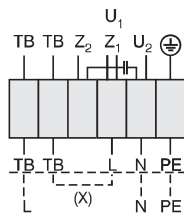


A = 600 C = 600
B = 930 D = 540



SPECIFICATIONS

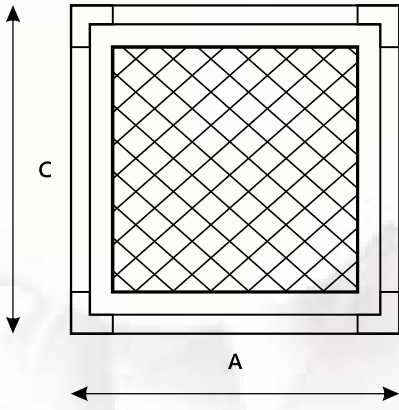
Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	Capacitor [μF]	RPM	dBa	Temp min / max	Weight	IP 54
1~230	0.4	2.12	50	10	1410	49-55	60°C	62 Kg	IP 54



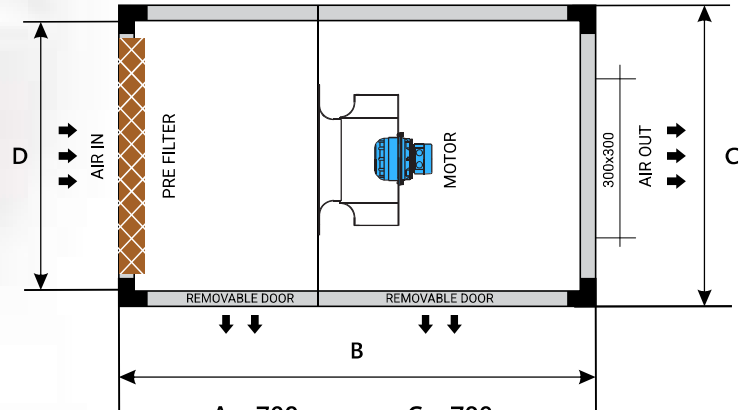
- U₁ Brown
- U₂ Blue
- Z₁ Black
- Z₂ Orange
- TB White
- PE Yellow-Green

Clockwise

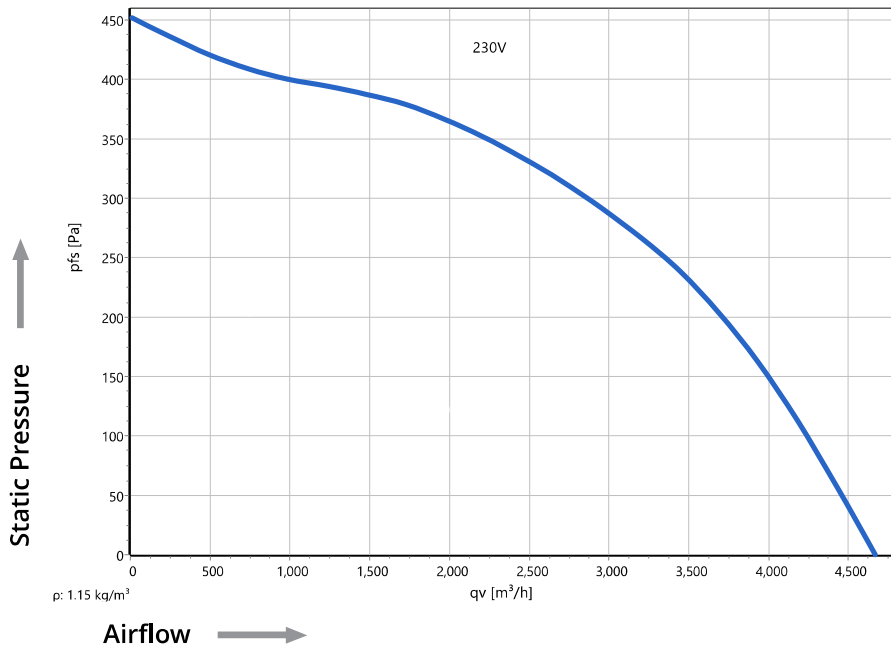
AM- BF- VU - AC- 400



Filter Size : 610 x 610 x 50

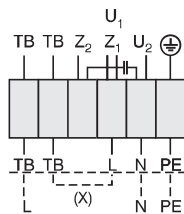


A = 700 C = 700
B = 1030 D = 640



SPECIFICATIONS

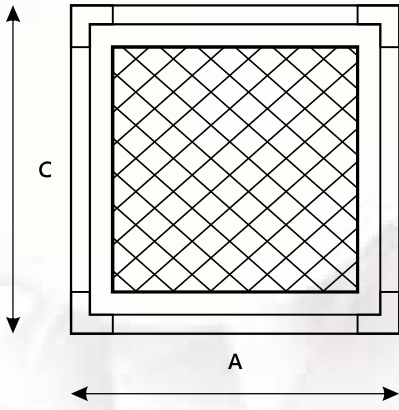
Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	Capacitor [μF]	RPM	dBA	Temp min / max	Weight	IP
1~230	0.6	2.8	50	12	1350	49-55	40°C	84 Kg	IP 54



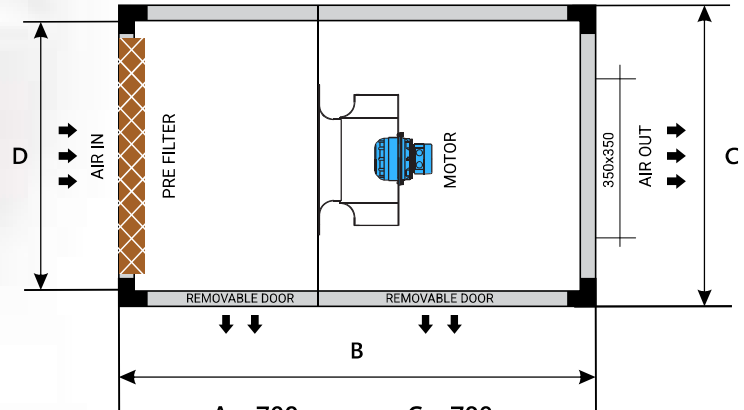
Clockwise

- U₁ Brown
- U₂ Blue
- Z₁ Black
- Z₂ Orange
- TB White
- PE Yellow-Green

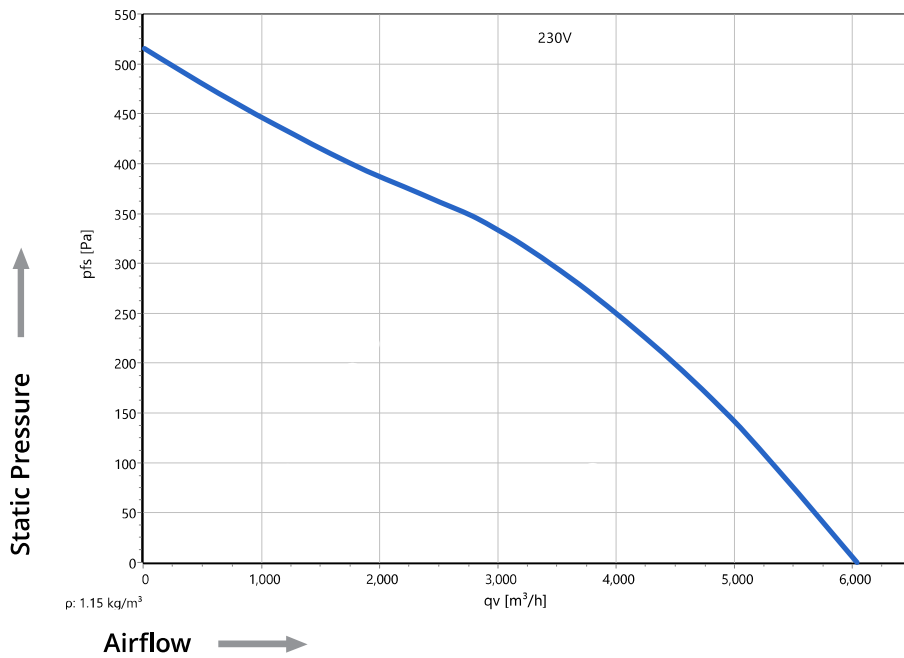
AM- BF- VU - AC- 450E



Filter Size : 610 x 610 x 50

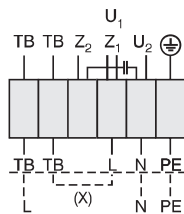


A = 700
B = 1030
C = 700
D = 640



SPECIFICATIONS

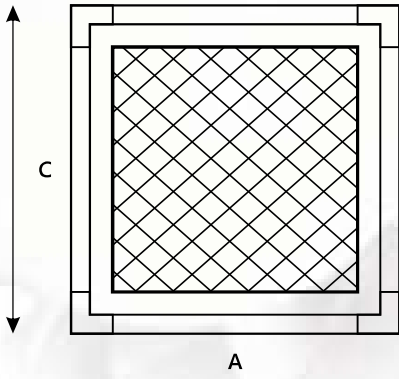
Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	Capacitor [μF]	RPM	dBA	Temp min / max	Weight	
1~230	0.82	3.7	50	16	1200	49-55	50°C	85 Kg	IP 54



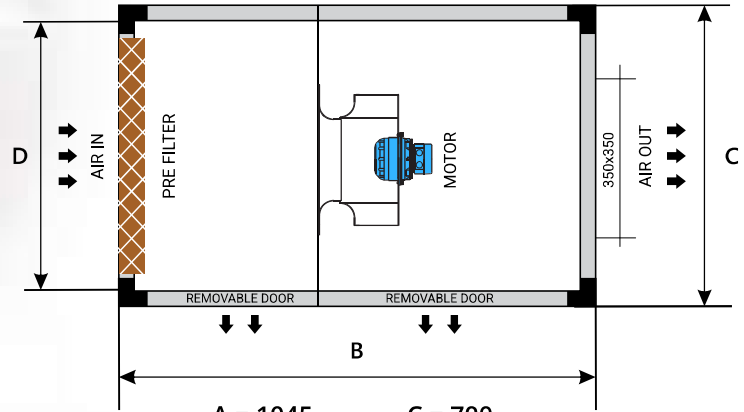
Clockwise

- U₁ Brown
- U₂ Blue
- Z₁ Black
- Z₂ Orange
- TB White
- PE Yellow-Green

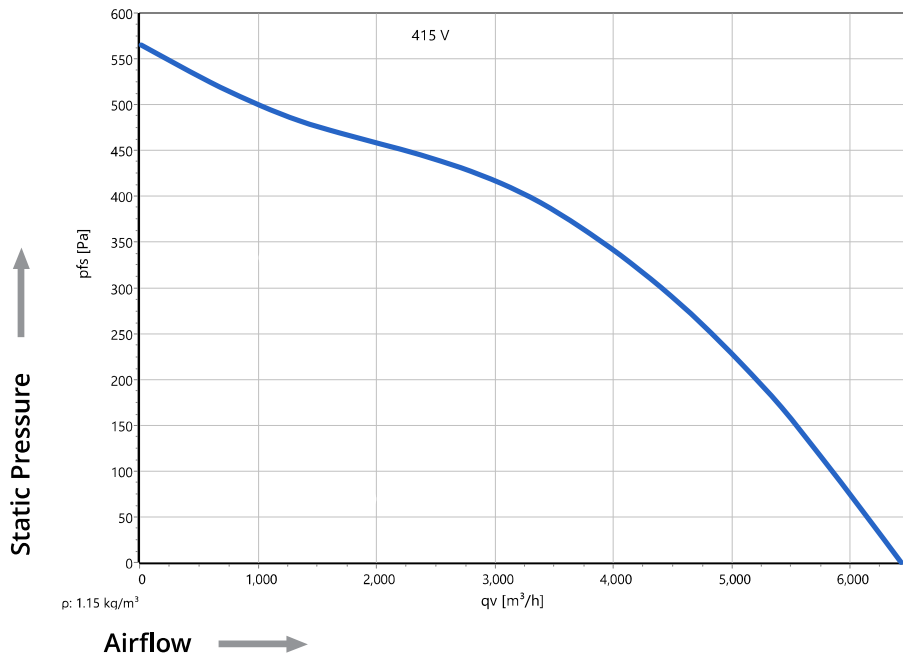
AM- BF- VU - AC- 450D



Filter Size : 610 x 610 x 50
610 x 305 x 50

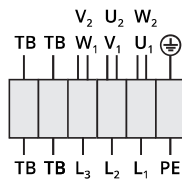


A = 1045 C = 700
B = 1180 D = 640



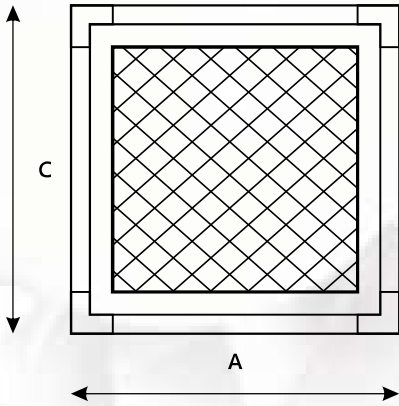
SPECIFICATIONS

Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	RPM	dBA	Temp min / max	Weight	IP
415	0.91	1.65	50	1300	55	50°C	109 Kg	IP 54

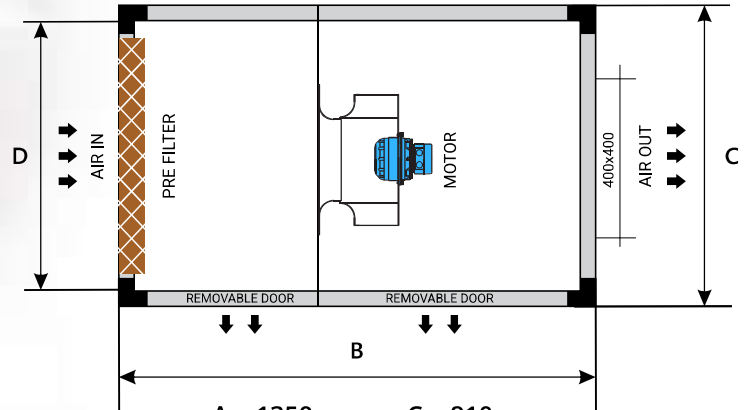


- U₁ Brown
- V₁ Blue
- W₁ Black
- U₂ Red
- V₂ Grey
- W₂ Orange
- TB White
- PE Yellow-Green

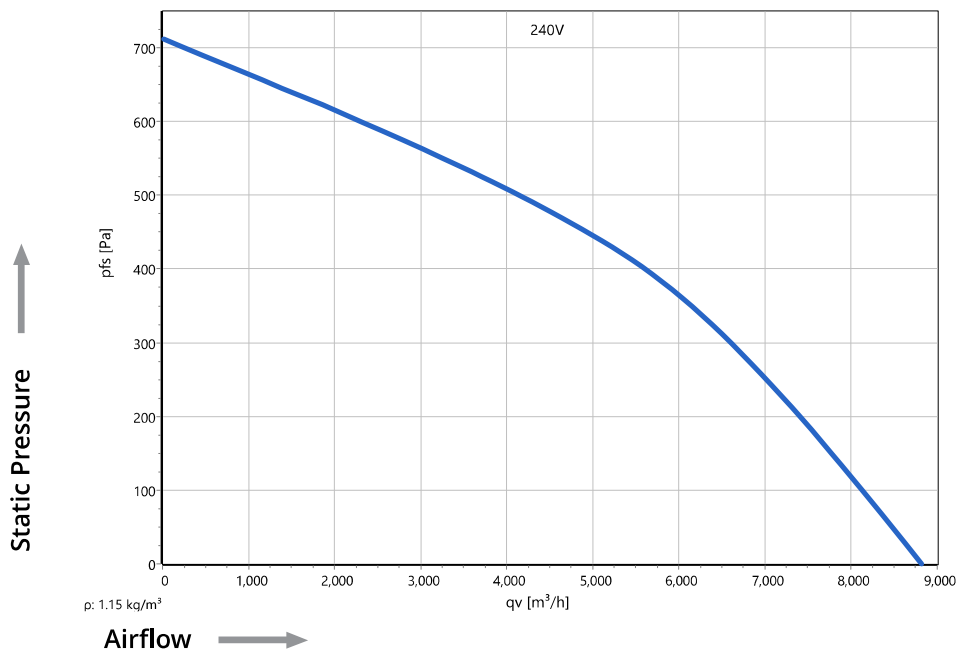
AM- BF- VU - AC- 500E



Filter Size : 610 x 610 x 50
x 2 Nos

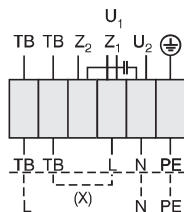


A = 1350 C = 810
B = 1290 D = 750



SPECIFICATIONS

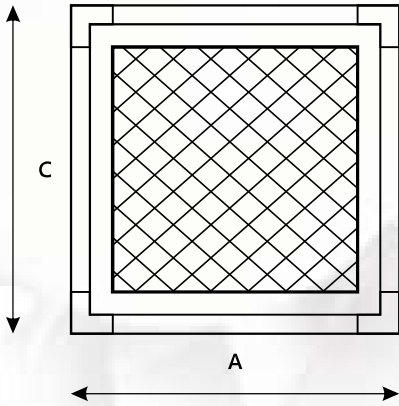
Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	Capacitor [μ F]	RPM	dBA	Temp min / max	Weight	IP 54
230	1.7	7.5	50	30	1290	55	50°C	157 Kg	IP 54



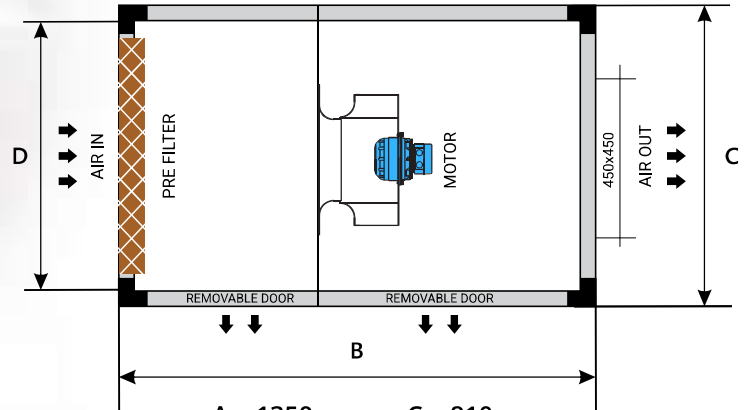
Clockwise

- U₁ Brown
- U₂ Blue
- Z₁ Black
- Z₂ Orange
- TB White
- PE Yellow-Green

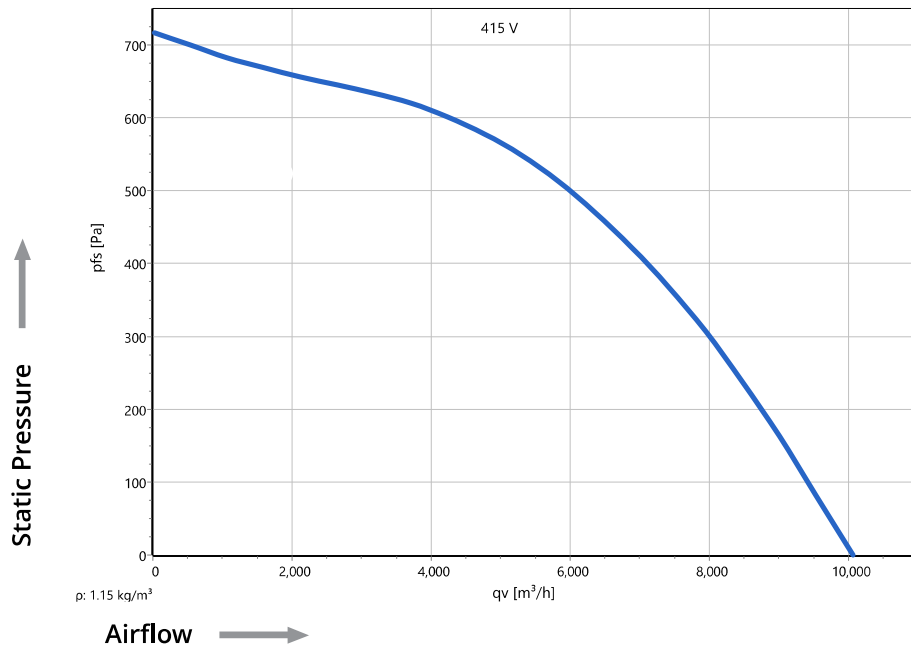
AM- BF- VU - AC- 500D



Filter Size : 610 x 610 x 50
x 2 Nos

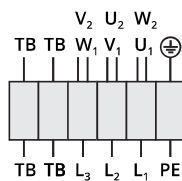


A = 1350 C = 810
B = 1290 D = 750



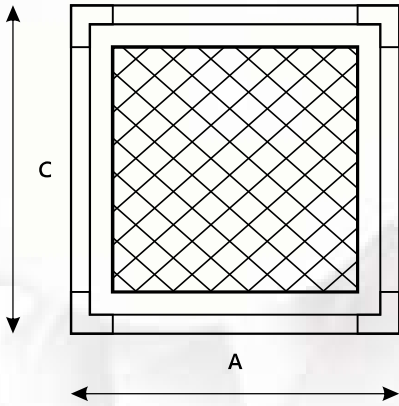
SPECIFICATIONS

Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	RPM	dBA	Temp min / max	Weight	IP
415	1.75	3.55	50	1380	55	50°C	157 Kg	IP 54

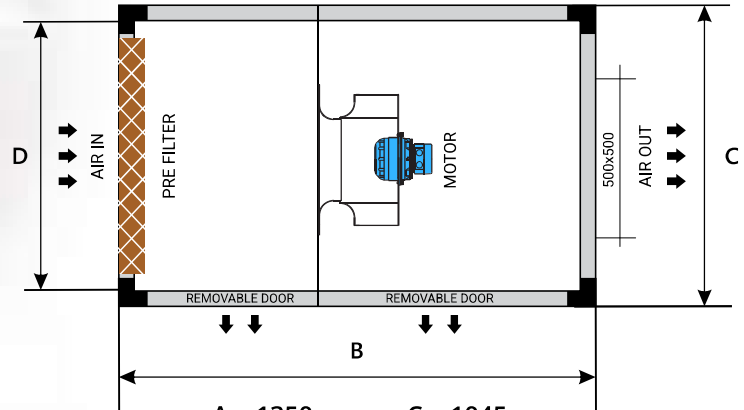


- U₁ Brown
- V₁ Blue
- W₁ Black
- U₂ Red
- V₂ Grey
- W₂ Orange
- TB White
- PE Yellow-Green

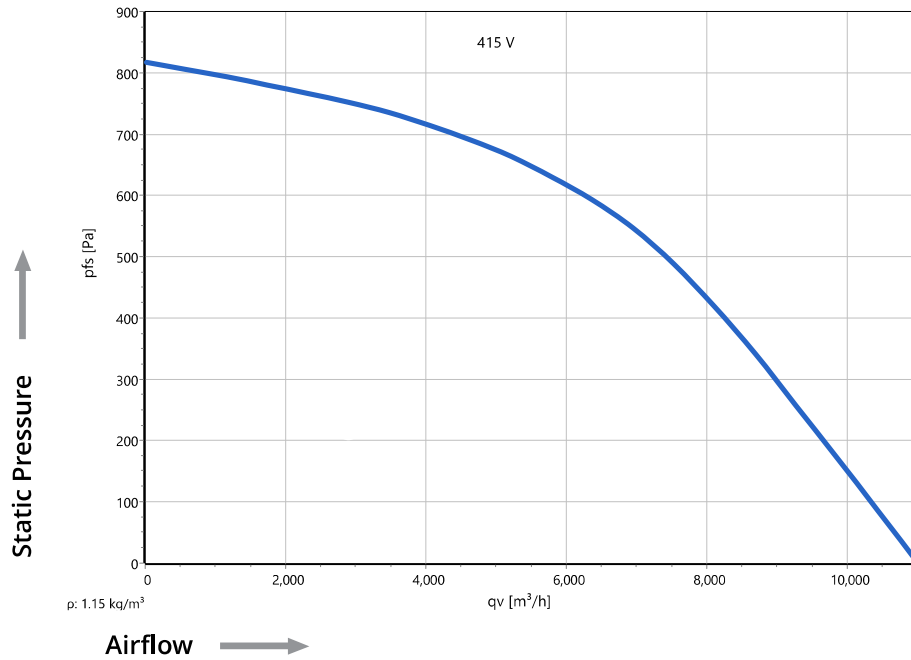
AM- BF- VU - AC- 560



Filter Size : 610 x 610 x 50 - 2 Nos
610 x 305 x 50 - 2 Nos

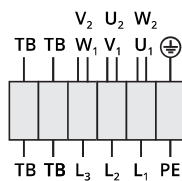


A = 1350 C = 1045
B = 1390 D = 985



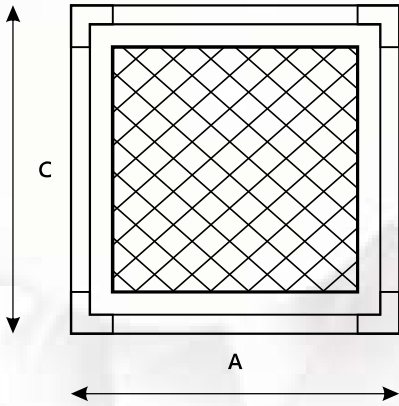
SPECIFICATIONS

Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	RPM	dBA	Temp min / max	Weight	IP
415	2.3	4.4	50	1350	55	50°C	211 Kg	IP 54

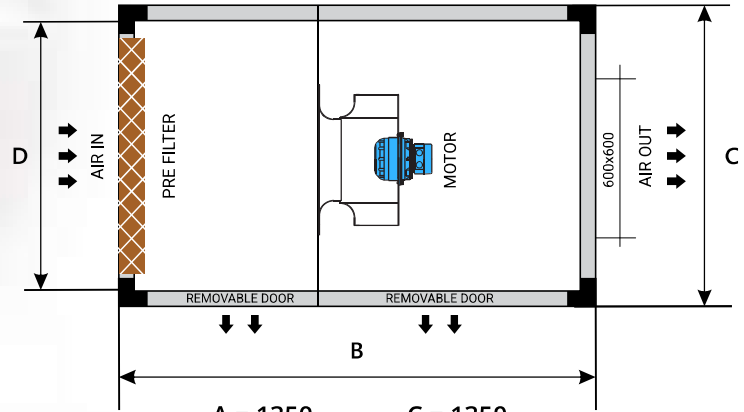


- U₁ Brown
- V₁ Blue
- W₁ Black
- U₂ Red
- V₂ Grey
- W₂ Orange
- TB White
- PE Yellow-Green

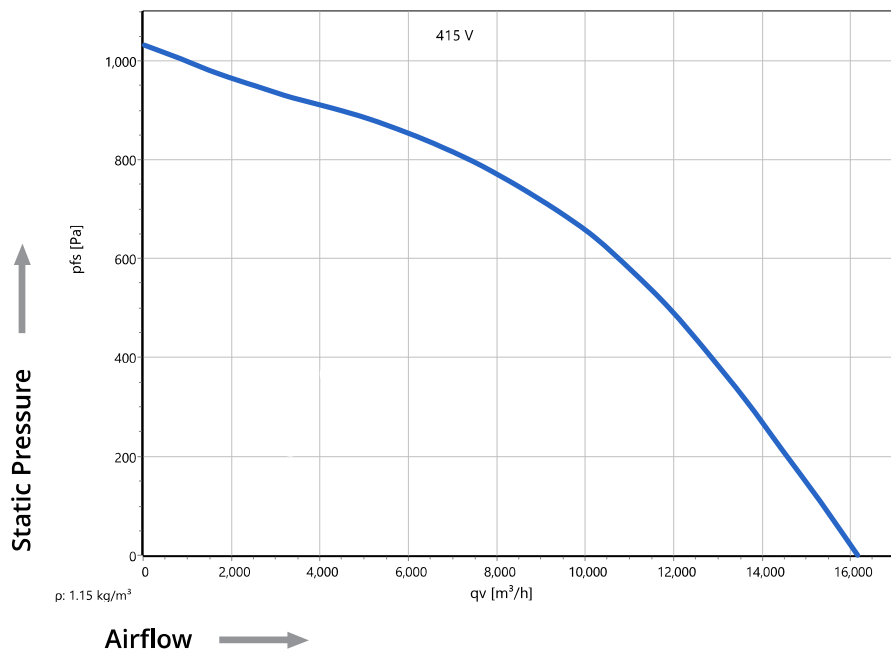
AM- BF- VU - AC- 630



Filter Size : 610 x 610 x 50 - 4 Nos

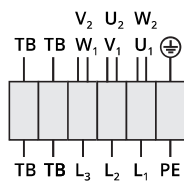


A = 1350 C = 1350
B = 1490 D = 1290



SPECIFICATIONS

Voltage [V]	Power [kW]	Current [A]	Frequency [Hz]	RPM	dBA	Temp min / max	Weight	IP
415	4	6.9	50	1340	60	40°C	250 Kg	IP 54



- U₁ Brown
- V₁ Blue
- W₁ Black
- U₂ Red
- V₂ Grey
- W₂ Orange
- TB White
- PE Yellow-Green