



## POWERBOX FANS

# ePOWERBOX

### PRODUCT FACTS

- Air flow up to 5.2 m<sup>3</sup>/s
- Static pressures up to 1130 Pa
- Speed controllable external rotor motors
- Multiple outlet orientations
- All panels interchangeable to offer flexible outlet position

### ELECTRICAL SUPPLY

220-240V/50Hz/1 $\phi$  & 380-420V/50Hz/3 $\phi$

### TEMPERATURE RANGE

Maximum temperature from +40°C to +70°C (depending on the model)

### SIZES

355, 400, 450, 500, 560, 630 and 710 mm

### CONSTRUCTION

The ePowerBox casing is made from galvanized sheet steel with PentaPost construction and acoustic insulation made from mineral wool with a thickness of 20 mm.

### IMPELLER

The ePowerBox has a backward curved centrifugal impellers made of plastic with galvanised steel support plates for those up to 560 mm. Fans with a diameter of 630 mm and larger have high efficiency backward curved centrifugal impellers made of aluminium.

### MOTOR

The impellers together with the external rotor motors are dynamically balanced to quality standard G2,5 DIN ISO 19410.

### SPEED CONTROLLER

Speed is 100% infinitely variable using auto transformers or inverter control.

NB; Performance reduction in straight through configuration. Please refer to performance curve.



### PRODUCT CODE

ePowerBox 50-355-3

- ePowerBox - Product Name
- 50 = Box Size                    ie, 50 = 500mm; 67 = 670mm;  
  80 = 800mm; 102 = 1020mm
- 355 = Spigot Diameter size (mm)
- 1 = 1 $\phi$  or 3 = 3 $\phi$

### ACCESSORIES (Pages 238-248) - CONTROLLERS (Pages 249-297)

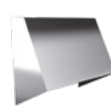
The range of accessories include dampers, flexible connectors, service doors, outlet covers, guards, side covering and insulating connections. A quick reference guide is shown below.



SFC



SWR



SOC



Controls Transformer



Mounting track/SMT



Controls Inverter



Controls Electronic



## PERFORMANCE AND ELECTRICAL DATA

220-240V/50Hz/1 $\phi$  & 380-420V/50HZ/3 $\phi$

### PERFORMANCE TABLE

Product Code	m <sup>3</sup> /s @ Pa (Static)													
	0	50	100	150	200	250	300	350	400	450	500	550	600	650
ePowerBox 50-355-1	1.3	1.24	1.17	1.11	1.04	0.97	0.87	0.75	0.58	0.18				
ePowerBox 67-400-1	0.91	0.86	0.79	0.73	0.66	0.57	0.45	0.18						
ePowerBox 67-450-1	1.91	1.84	1.77	1.69	1.61	1.53	1.44	1.33	1.21	1.08	0.91	0.6	0.13	
ePowerBox 67-500-1	2.61	2.52	2.43	2.34	2.24	2.15	2.05	1.94	1.83	1.7	1.55	1.39	1.16	0.86

Product Code	m <sup>3</sup> /s @ Pa (Static)													
	0	100	200	300	400	500	600	700	800	900	1000			
ePowerBox 50-355-3	0.93	0.8	0.65	0.43										
ePowerBox 67-400-3	1.3	1.15	1.01	0.81	0.4									
ePowerBox 67-450-3	1.81	1.66	1.49	1.3	1.03	0.59	0.02							
ePowerBox 67-500-3	2.58	2.4	2.23	2.03	1.82	1.55	1.16	0.38						
ePowerBox 80-560-3	3.61	3.4	3.19	2.98	2.75	2.47	2.13	1.69	0.88	0.22				
ePowerBox 80-630-3	4.01	3.82	3.64	3.44	3.25	3.05	2.83	2.57	2.24	1.74	0.13			
ePowerBox 102-710-3	4.82	4.47	4.07	3.63	3.14	2.59	0.99							

### PRODUCT AND ELECTRICAL DETAILS

Product Code	Product Number	Speed rpm	Motor Frame	Electrical Supply	Electrical Current			Wiring Diagrams	**Speed Controllers Transformer	Maximum Operating Temp°C	Breakout *Sound Level db(A) (3m)
					Motor (kW)	Full Load Current (A)	Starting Current (A)				
ePowerBox 50-355-1	BE355017	1325	Integral	220-240 V-50 Hz-1 Ph	0.28	1.35	4.46	CD3028	TEID 1.5	65	33
ePowerBox 67-400-1	BE400018	1360	Integral	220-240 V-50 Hz-1 Ph	0.51	2.45	7.11	CD3028	TEID 2.2	65	45
ePowerBox 67-450-1	BE450022	1270	Integral	220-240 V-50 Hz-1 Ph	0.85	4.1	15.58	CD3028	TEID 3.5	45	41
ePowerBox 67-500-1	BE500003	1310	Integral	220-240 V-50 Hz-1 Ph	1.38	6.22	19.90	CD3028	TEID 7.5	40	45

Product Code	Product Number	Speed rpm	Motor Frame	Electrical Supply	Electrical Current			Wiring Diagrams	**Speed Controllers Transformer	Maximum Operating Temp°C	Breakout *Sound Level db(A) (3m)
					Motor (kW)	Full Load Current (A)	Starting Current (A)				
ePowerBox 50-355-3	BE355018	1355	Integral	380-420V-50 Hz-3 Ph	0.28	0.67	2.68	CD3030	IDDXF54 2.2	70	34
ePowerBox 67-400-3	BE400019	1335	Integral	380-420V-50 Hz-3 Ph	0.44	0.88	3.34	CD3030	IDDXF54 2.2	70	37
ePowerBox 67-450-3	BE450023	1345	Integral	380-420V-50 Hz-3 Ph	0.73	1.47	4.85	CD3030	IDDXF54 2.2	50	37
ePowerBox 67-500-3	BE500004	1380	Integral	380-420V-50 Hz-3 Ph	1.29	2.82	14.95	CD3030	IDDXF54 3.7	60	44
ePowerBox 80-560-3	BE560023	1350	Integral	380-420V-50 Hz-3 Ph	2.1	4.07	16.28	CD3030	IDDXF54 5.3	50	47
ePowerBox 80-630-3	BI101234	1380	Integral	380-420V-50 Hz-3 Ph	3.28	6.1	34.20	CD3030	IDDXF54 7.2	60	55
ePowerBox 102-710-3	BI101237	890	Integral	380-420V-50 Hz-3 Ph	2.17	4.79	19.16	CD3030	IDDXF54 5.3	70	49

\*Sound power levels are average dBA at 3 metres distance over sphere, under free field conditions and are presented for comparative purposes only. Values shown are those at the mid-point of the performance curve.

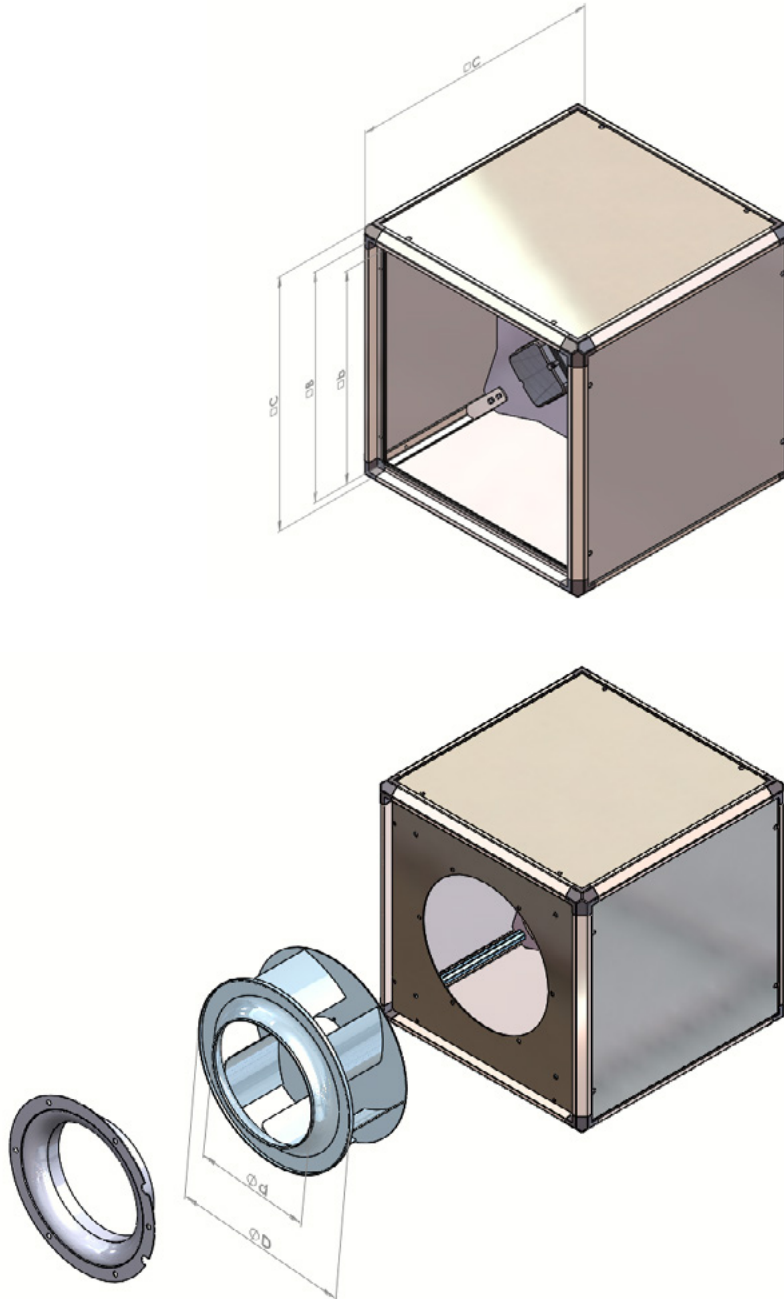
\*\* For speed controllers, please see pages 250-297. For ErP efficiency ratings and grades please refer to our Fan Selector for more information.

Products in **bold** are available from our UK Distributors on next day delivery, if ordered by 4pm. Please call to confirm availability on 01206 222 580.





## DRAWING AND DIMENSIONS



Product Code	A	B	b	C	Ø D	Ø d	Weight max (kg)
ePowerBox 50-355	500	450	420	500	365	224	33
ePowerBox 67-400	670	620	590	670	404	253	49
ePowerBox 67-450	670	620	590	670	454	286	58
ePowerBox 67-500	670	620	590	670	504	321	66
ePowerBox 80-560	800	720	690	800	570	361	95
ePowerBox 80-630	800	720	690	800	634	407	105
ePowerBox 102-710	1020	940	910	1020	718	438	157

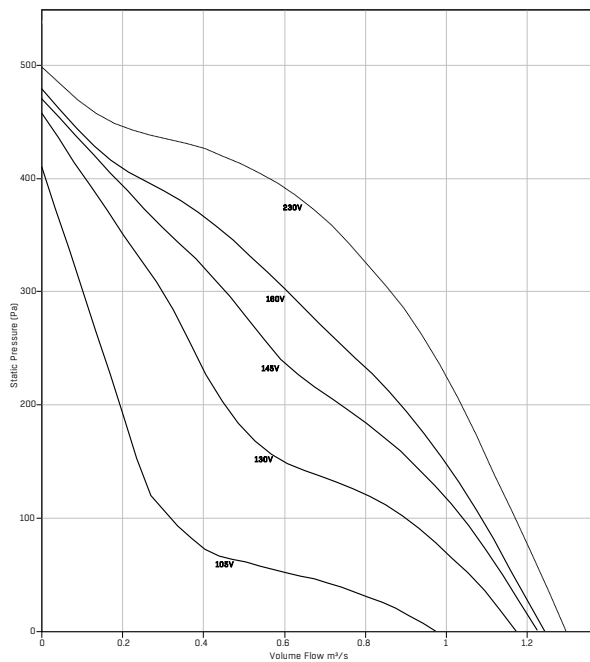
All dimensions shown in mm

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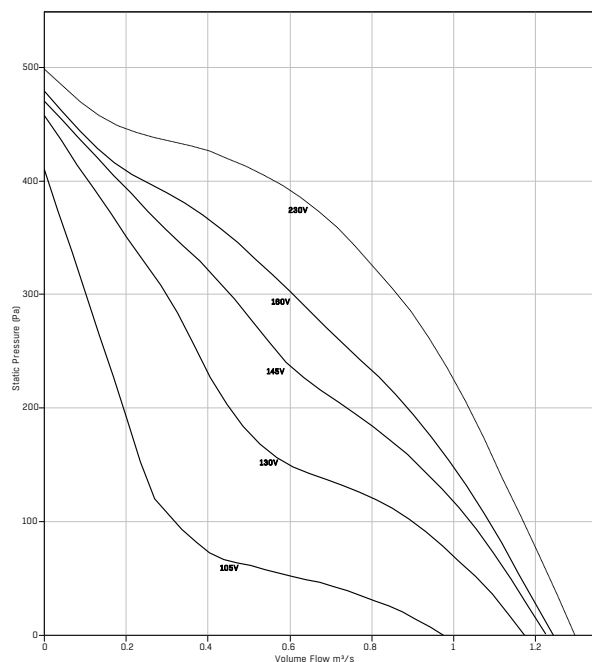


## PERFORMANCE CHARTS

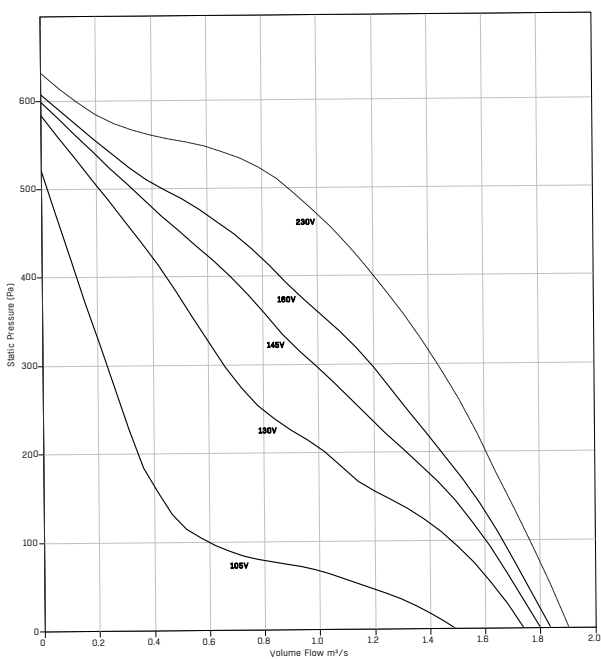
### ePOWERBOX 50-355-1 - BE355017



### ePOWERBOX 67-400-1 - BE400018



### ePOWERBOX 67-450-1 BE450022



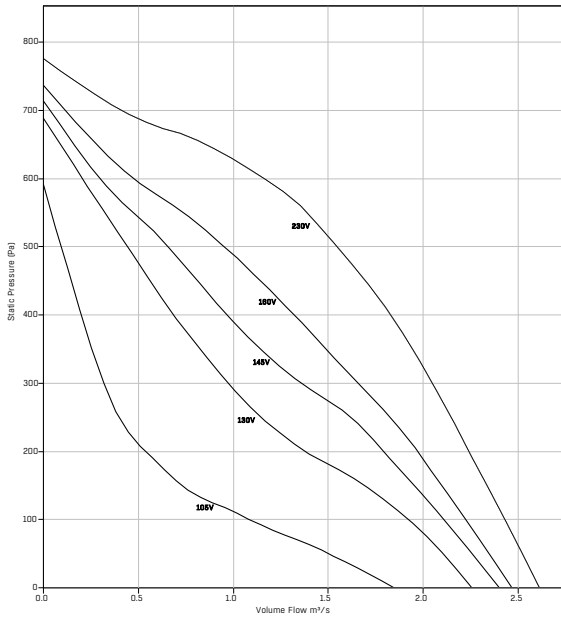
Please note : -

The performances shown are based on the centrifugal 90 degrees discharge, for the axial flow performance please contact our sales team.

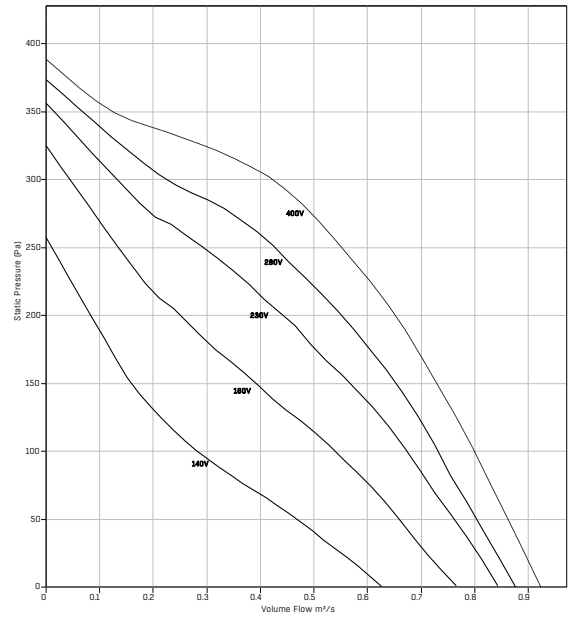


## PERFORMANCE CHARTS

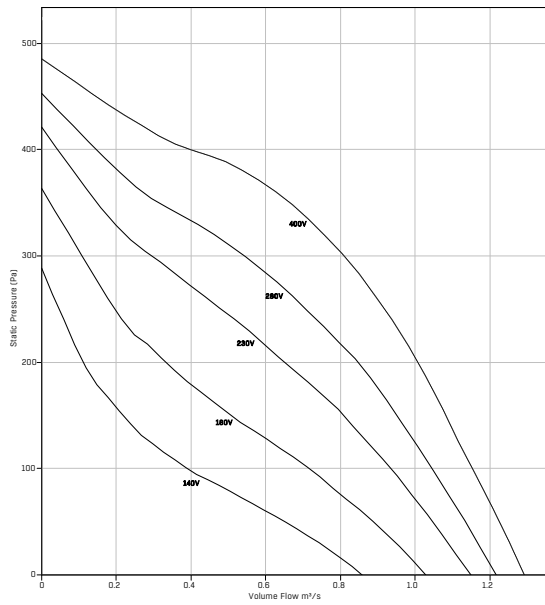
**ePOWERBOX 67-500-1 - BE500003**



**ePOWERBOX 50-355-3 - BE355018**



**ePOWERBOX 67-400-3 - BE400019**

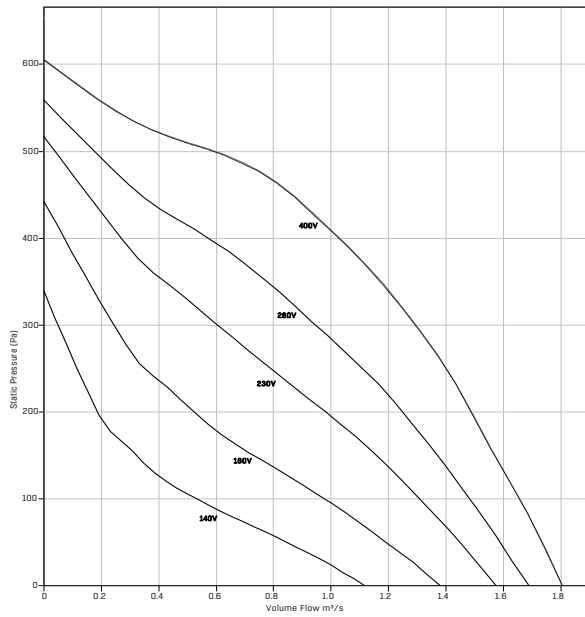


Please note : -

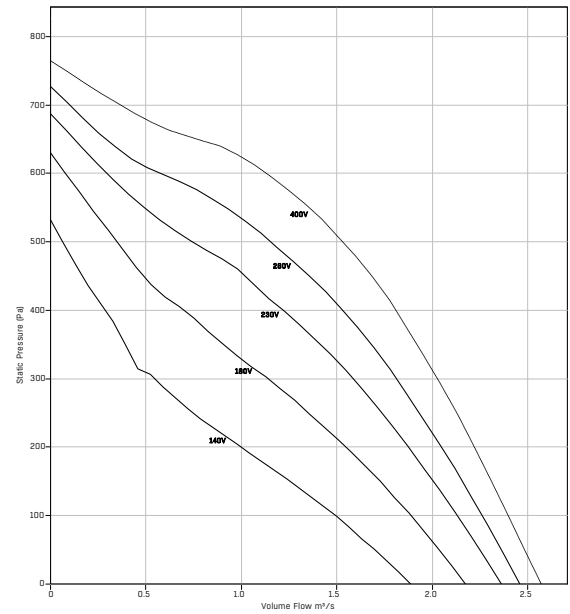
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## PERFORMANCE CHARTS

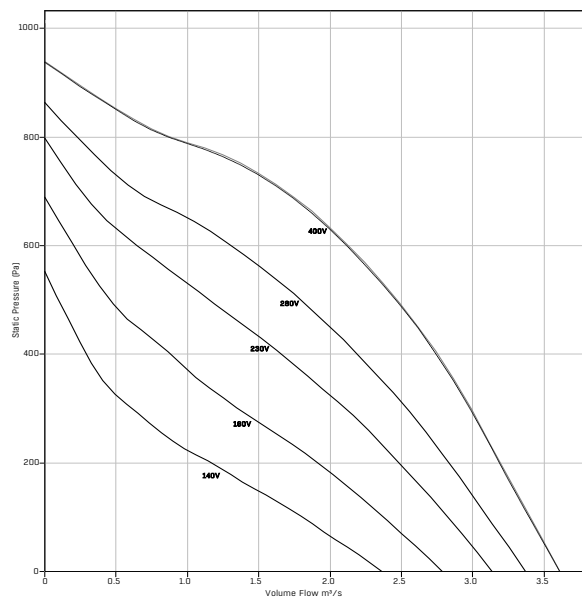
### ePOWERBOX 67-450-3 - BE450019



### ePOWERBOX 67-500-3 - BE500004



### ePOWERBOX 67-560-3 - BE560023



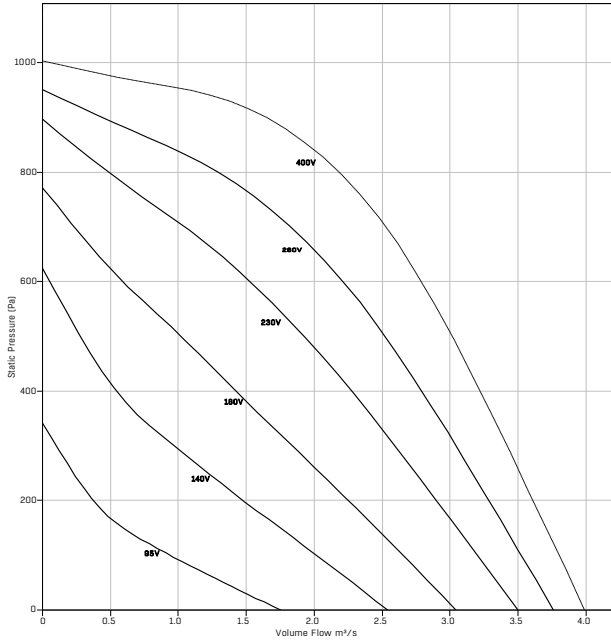
Please note :-

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## PERFORMANCE CHARTS

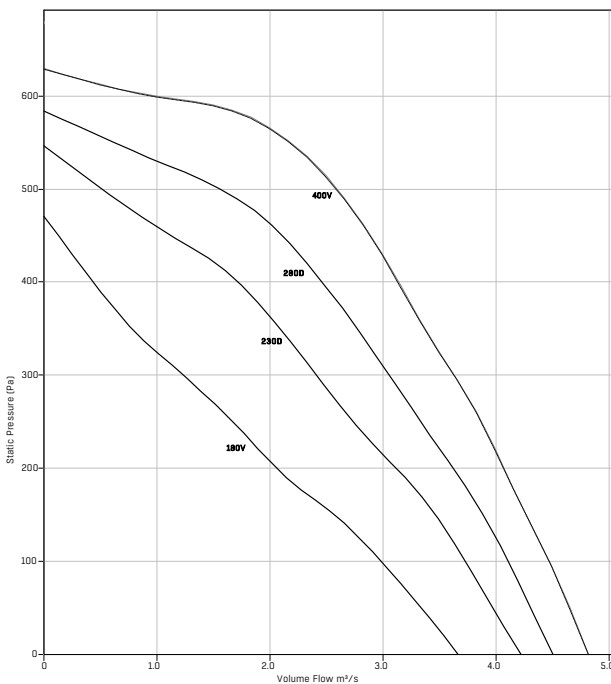
### ePOWERBOX 80-630-3 - BI101234



Please note : -

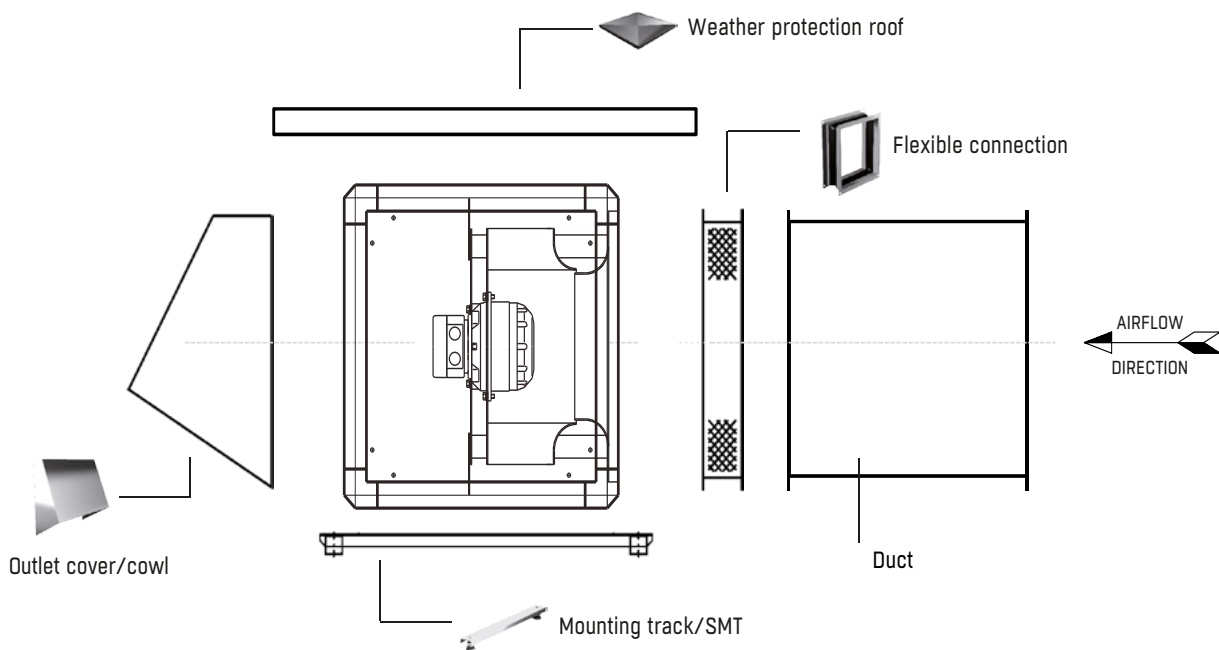
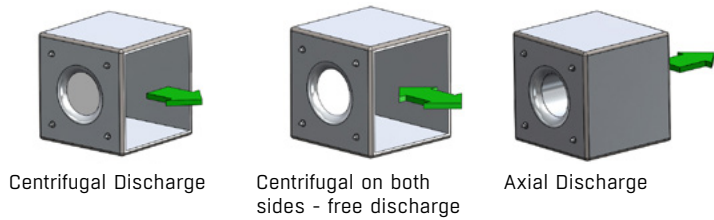
The performances shown are based on the centrifugal 90 degrees discharge, for the axial flow performance please contact our sales team.

### ePOWERBOX 102-710-3 - BI101237



## INSTALLATION GUIDE

Outdoor installation PowerBox Estoc  
Axial air flow (90° discharge available)  
All accessories supplied separately

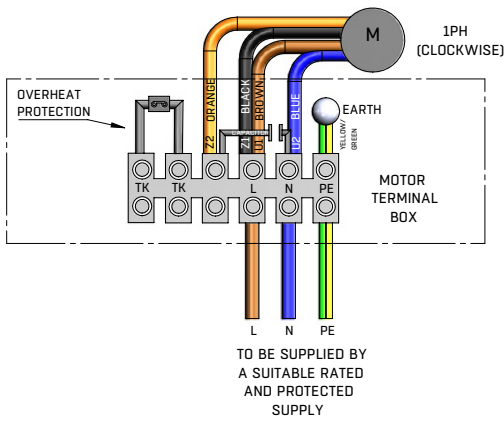




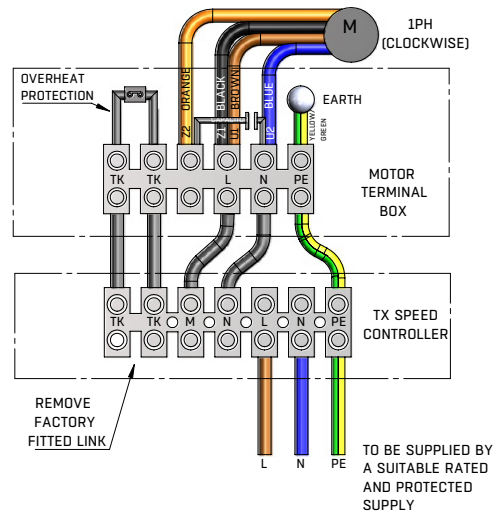


## WIRING DIAGRAMS - ESTOC

### CD3028



FACTORY CONFIGURATION (CLOCKWISE ROTATION)



### CD3030

