

Square Duct Fans - ESTOC Range



Features

- Sizes from 355 to 710 mm diameter
- Air flow 1,900 m³/h (5.2 m³/s)
- Static pressures up to 1150 Pa
- Maximum temperature from +40° C to +70° C (depending on the model)
- Adjustable external rotor motors
- Multiple outlet orientations

Electrical Supply

220 - 240V / 50Hz / 1 Ph
380 - 420V / 50Hz / 3 Ph

Sizes

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

Features and Construction

The Estoc 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 Estoc has a backward curved centrifugal impellers made of plastic with galvanised steel support plates for those up to 450 mm. Fans with a diameter of 500 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 Controllers

Speed is 100% infinitely variable using auto transformers or electronic control (please see page 99).

Product Code

Estoc 50-355-3

- ESTOC - Product Name
- 50 = Box Size ie, 50 = 500mm; 67 = 670mm; 80 = 800mm; 102 = 1020mm
- 355 = Spigot Diameter size
- 3 = 3 Phase or 1 Phase

Accessories

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. For full details on these items please see pages 57-62.



SFC



SSC



SAD



SOC



SWR



CIG

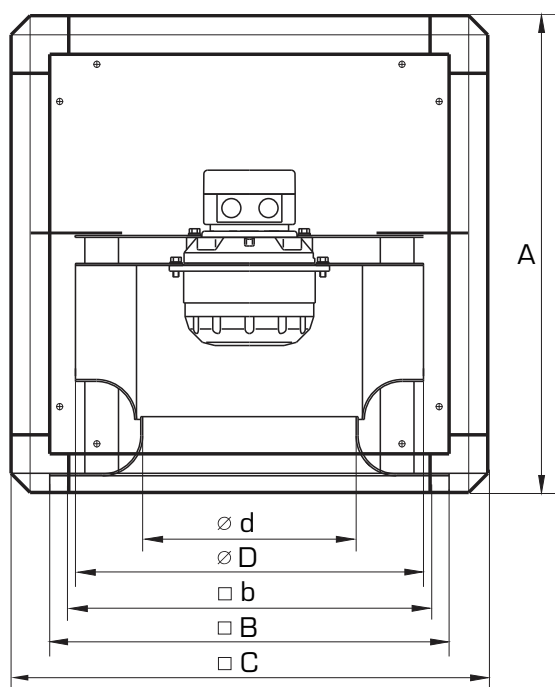
Electrical Details and Sound Levels

Product Code	Product Number	Speed rpm	Motor Frame	Electrical Supply	Electrical Current			Wiring Diagrams	Maximum Operating Temp °C	Breakout		**Speed Controllers
					Motor (kW)	Full Load Current (A)	Starting Current (A)			*Sound Level db(A) (3m)	Transformer	
ESTOC 50-355-1	UB503514	1325	Integral	220-240 V-50 Hz-1 Ph	0.29	1.25	2.5	CD3005	55	33	T	
ESTOC 50-355-3	BI101216	1355	Integral	380-420V-50 Hz-3 Ph	0.3	0.66	2.18	CD3003	50	34	I	
ESTOC 50-355-3	UB503544	1355	Integral	380-420 V-50 Hz-3 Ph	0.3	0.66	2.18	CD3003	50	34	T	
ESTOC 67-400-1	UB674414	1360	Integral	220-240 V-50 Hz-1 Ph	0.53	2.4	4.9	CD3005	45	45	T	
ESTOC 67-400-3	BI101217	1335	Integral	380-420V-50 Hz-3 Ph	0.48	0.9	2.88	CD3003	50	37	I	
ESTOC 67-400-3	UB674044	1355	Integral	380-420 V-50 Hz-3 Ph	0.48	0.9	2.88	CD3003	50	37	T	
ESTOC 67-450-1	UB674514	1270	Integral	220-240 V-50 Hz-1 Ph	0.76	3.5	7.35	CD3005	45	41	T	
ESTOC 67-450-3	BI101218	1240	Integral	380-420V-50 Hz-3 Ph	0.67	1.33	3.46	CD3003	50	37	I	
ESTOC 67-450-3	UB674544	1240	Integral	380-420 V-50 Hz-3 Ph	0.67	1.33	3.46	CD3003	50	37	T	
ESTOC 67-500-1	UB675514	1310	Integral	220-240 V-50 Hz-1 Ph	1.57	7.3	16.79	CD3005	40	45	T	
ESTOC 67-500-3	BI101219	1380	Integral	380-420V-50 Hz-3 Ph	1.8	3.7	17.76	CD3003	40	44	I	
ESTOC 67-500-3	UB675044	1380	Integral	380-420 V-50 Hz-3 Ph	1.8	3.7	17.76	CD3003	40	44	T	
ESTOC 80-560-3	BI101220	1350	Integral	380-420V-50 Hz-3 Ph	2.5	4.8	20.16	CD3003	40	47	I	
ESTOC 80-560-3	UB805644	1350	Integral	380-420 V-50 Hz-3 Ph	2.5	4.8	20.16	CD3003	40	44	T	
ESTOC 80-630-3	BI101221	1380	Integral	380-420V-50 Hz-3 Ph	3.65	6.6	27.72	CD3003	45	55	I	
ESTOC 80-630-3	UB806344	1380	Integral	380-420 V-50 Hz-3 Ph	3.65	6.6	27.72	CD3003	45	55	T	
ESTOC 102-710-3	BI101222	890	Integral	380-420V-50 Hz-3 Ph	2.45	4.7	18.8	CD3003	45	49	I	
ESTOC 102-710-3	UB107166	890	Integral	380-420 V-50 Hz-3 Ph	2.45	4.7	18.8	CD3003	45	49	T	

Key: T = Transformer, I = Inverter

*Sound power levels are average dBA at 3 metres distance over sphere, under free field conditions and are presented for comparative purposes only. Values taken at the mid point on the wave at the highest point. **For speed controllers, please see page 99.

Drawings and Dimensions



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

All dimensions in mm

Wiring Diagrams

CD3003



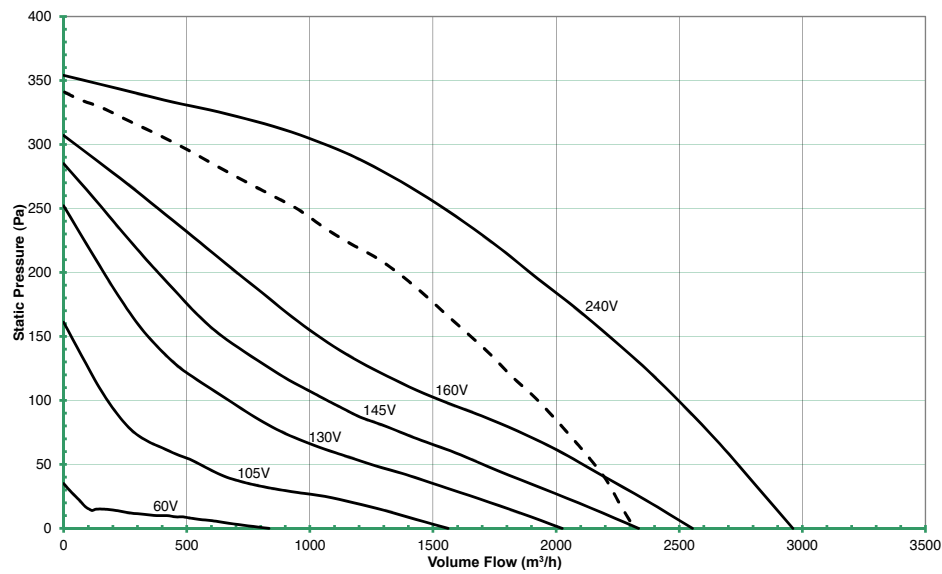
CD3005



Clockwise

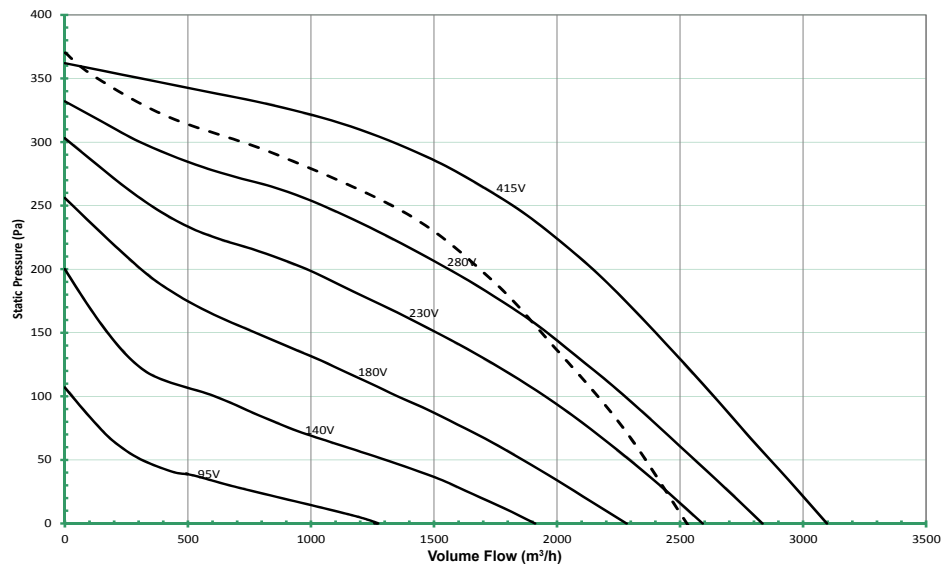
Performance Data

Estoc 50-355-1 - UB503514



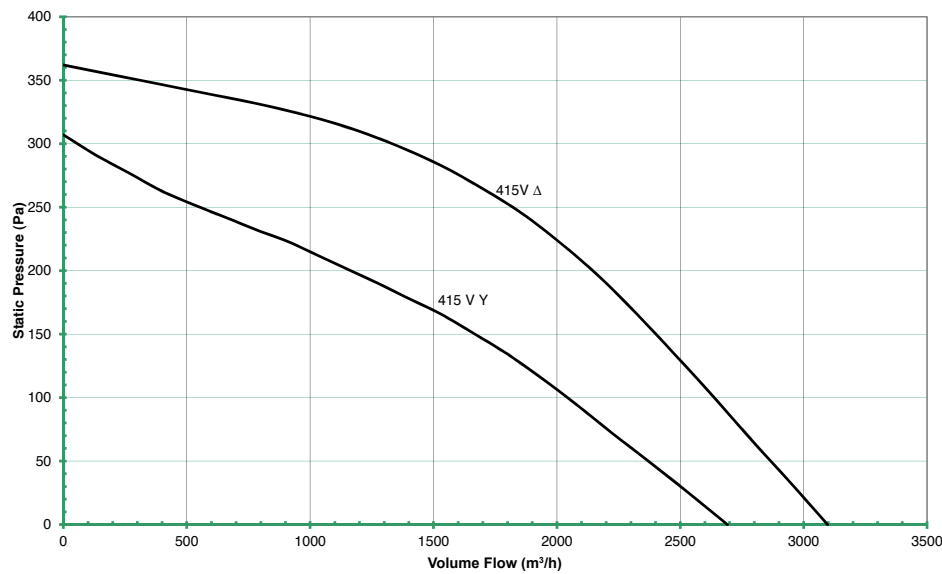
Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

Estoc 50-355-3 - BI101216



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

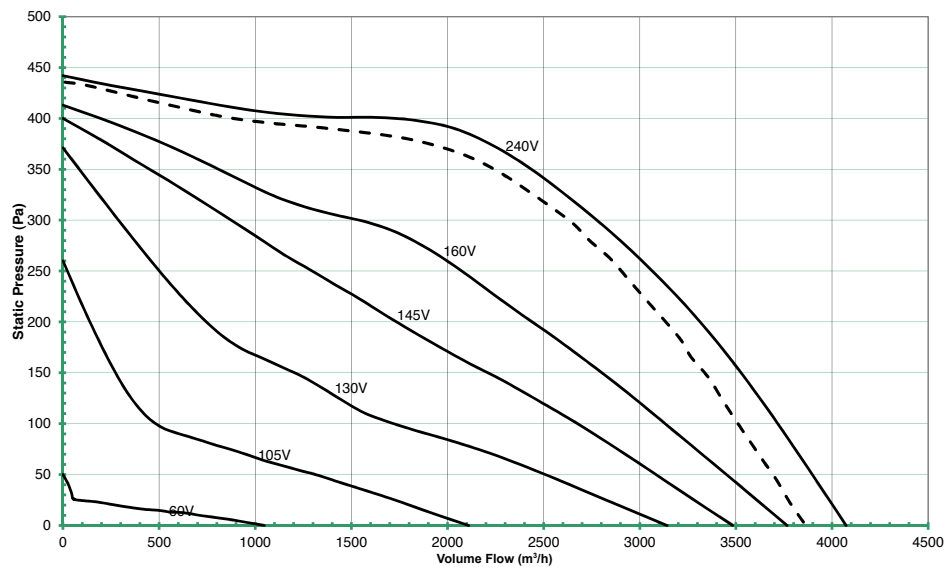
Estoc 50-355-3 - UB503544



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

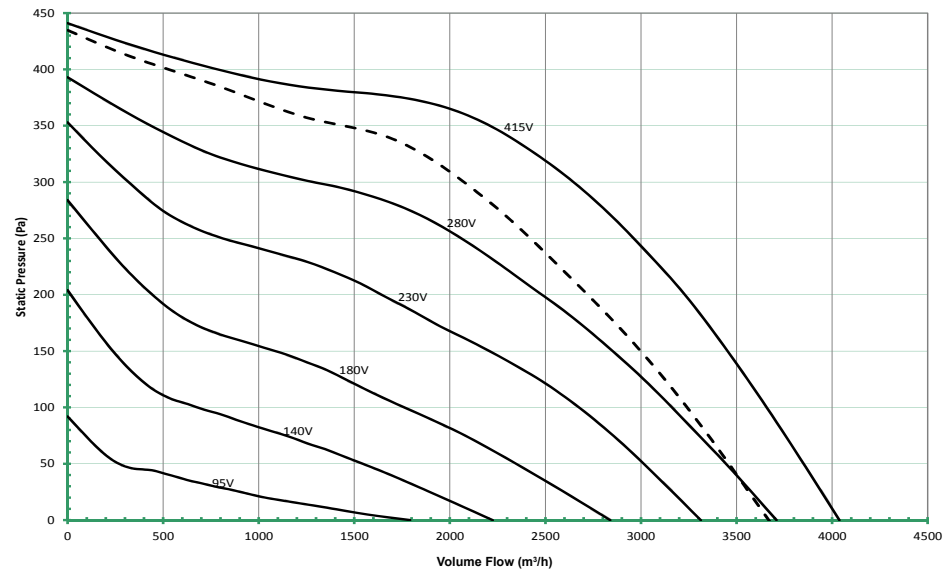
Performance Data

ESTOC 67-400-1 - UB674414



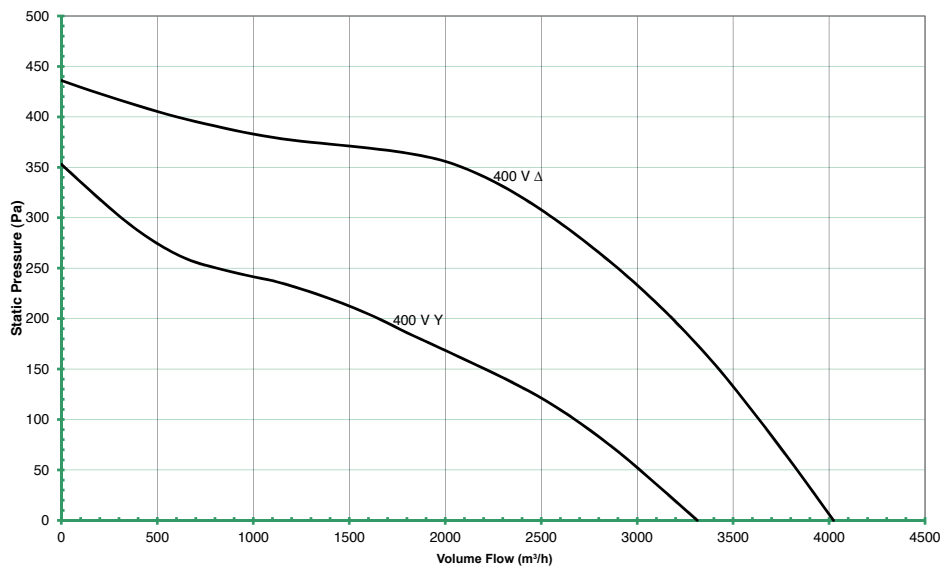
Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

ESTOC 67-400-3 - BI101217



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

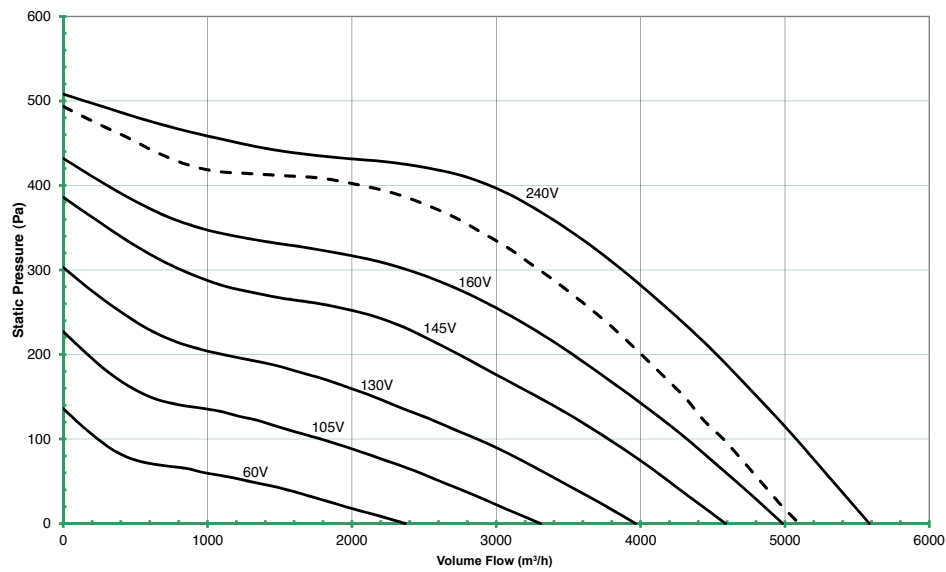
ESTOC 67-400-3 - UB674044



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

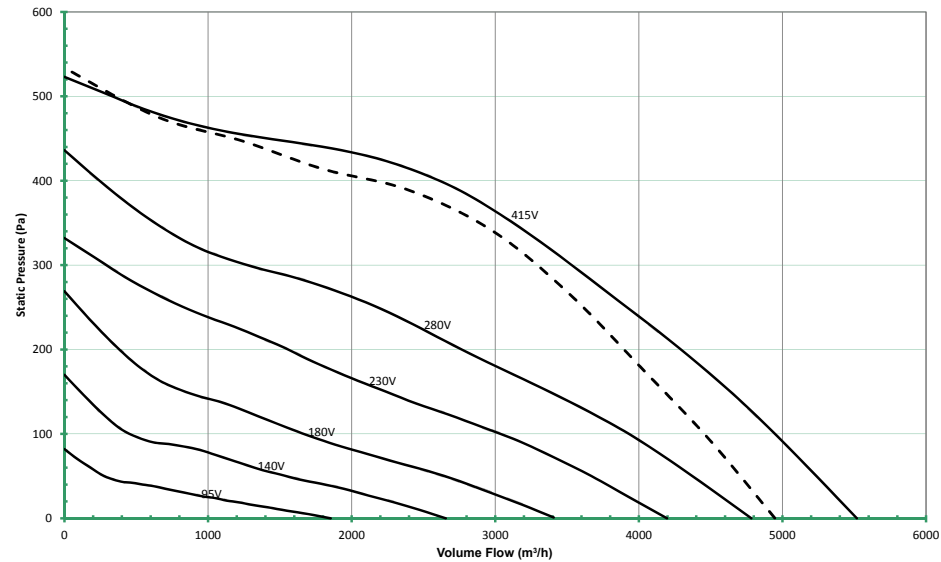
Performance Data

ESTOC 67-450-1 - UB674514

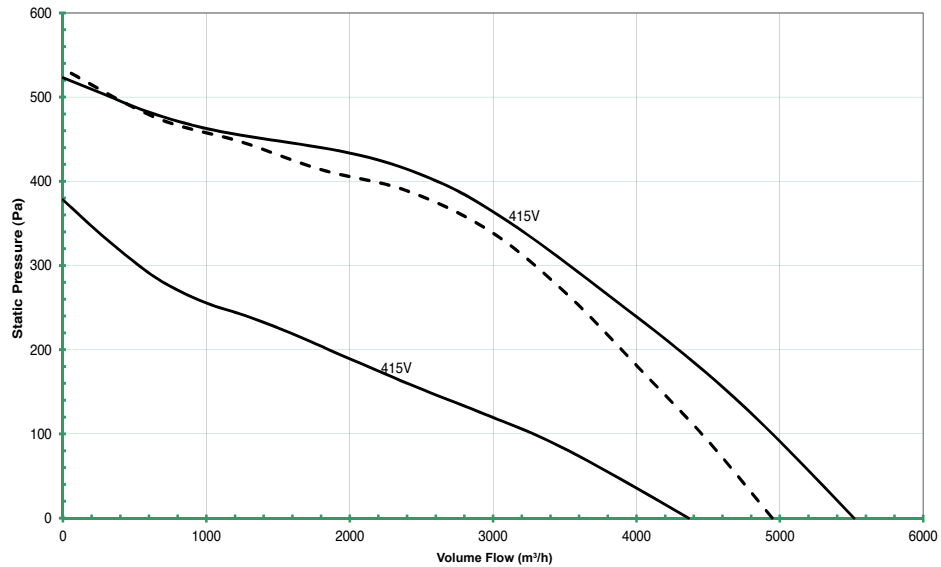


Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

ESTOC 67-450-3 - BI101218



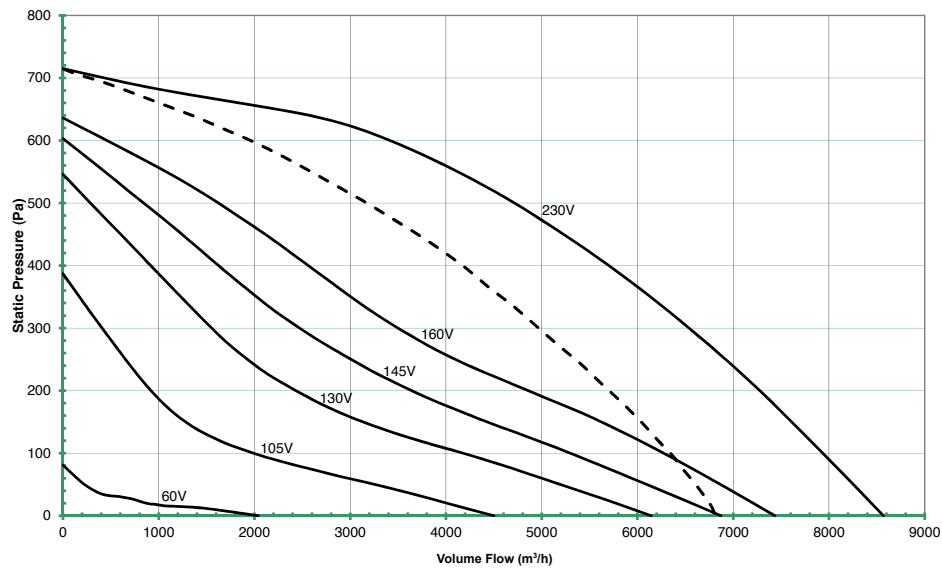
ESTOC 67-450-3 - UB674544



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

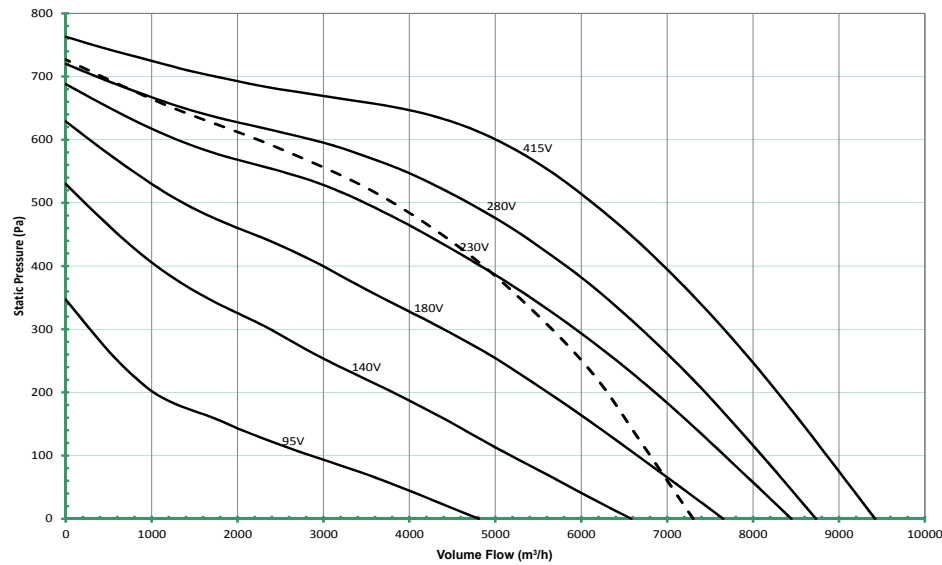
Performance Data

ESTOC 67-500-1 - UB675514



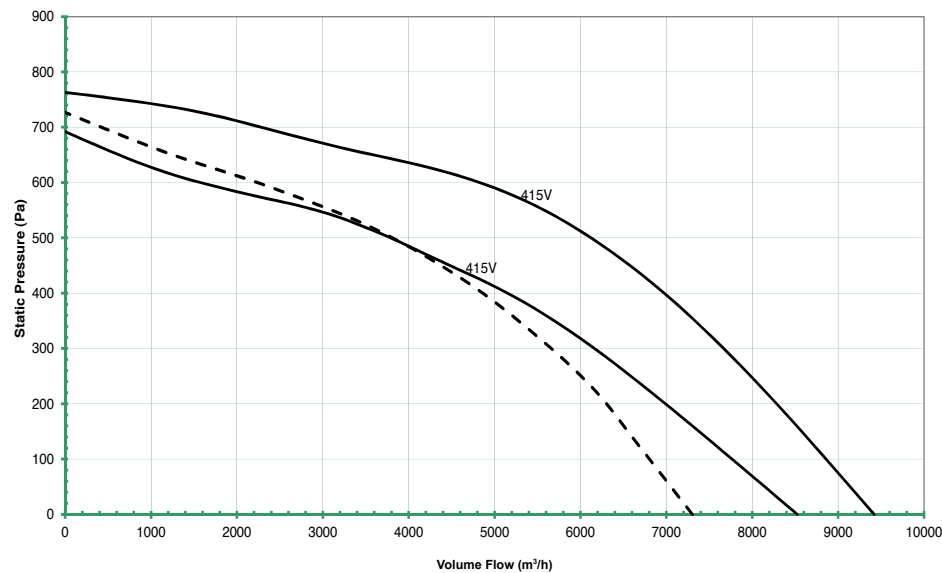
Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

ESTOC 67-500-3 - BI101219



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

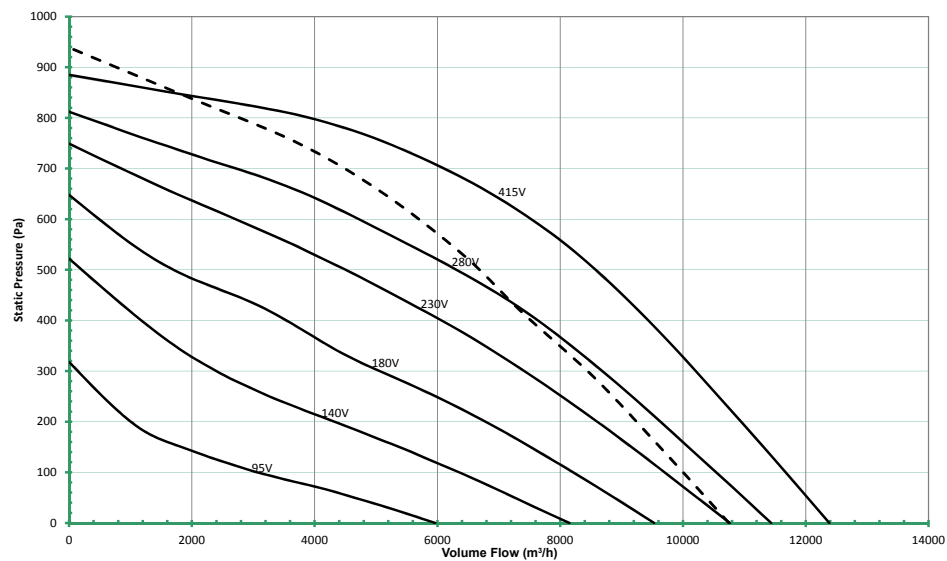
ESTOC 67-500-3 - UB675044



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

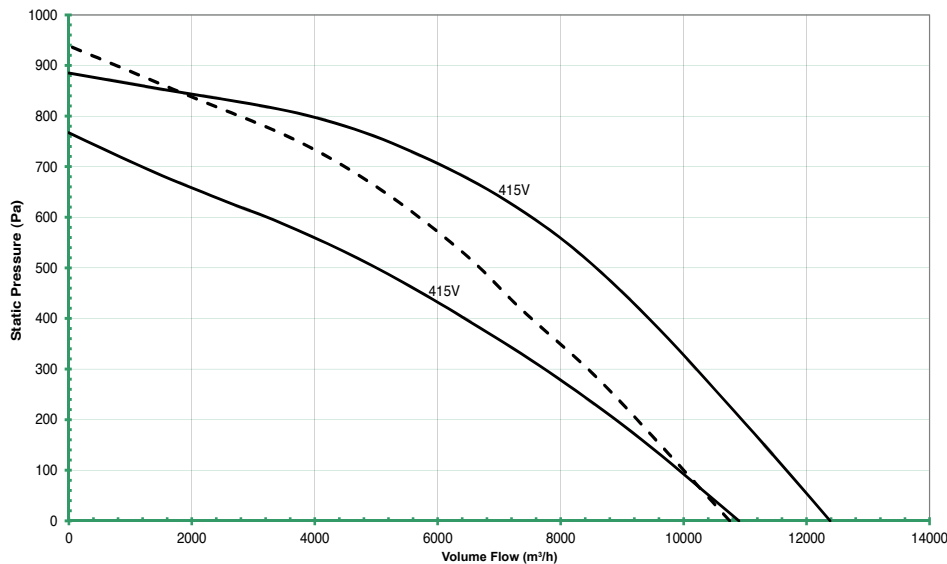
Performance Data

ESTOC 80-560-3 - BI101220



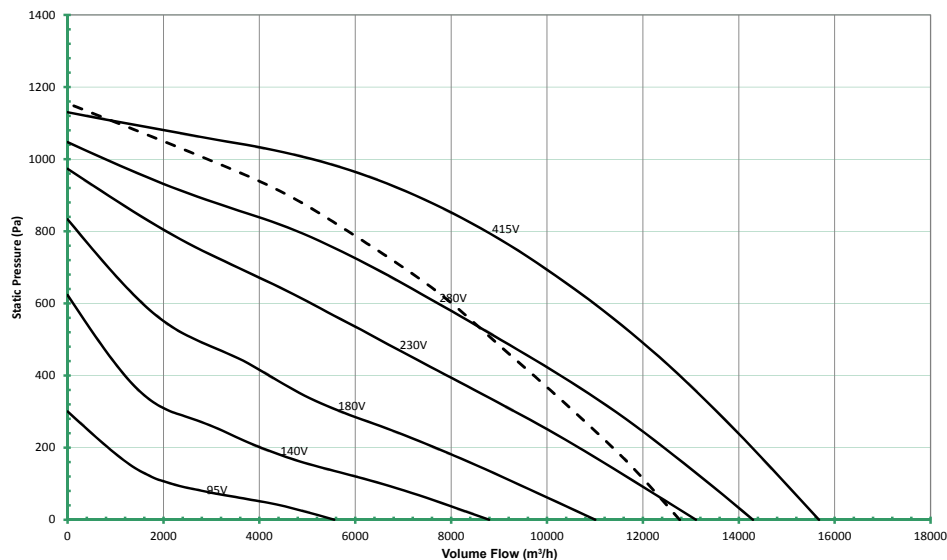
Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

ESTOC 80-560-3 - UB805644



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

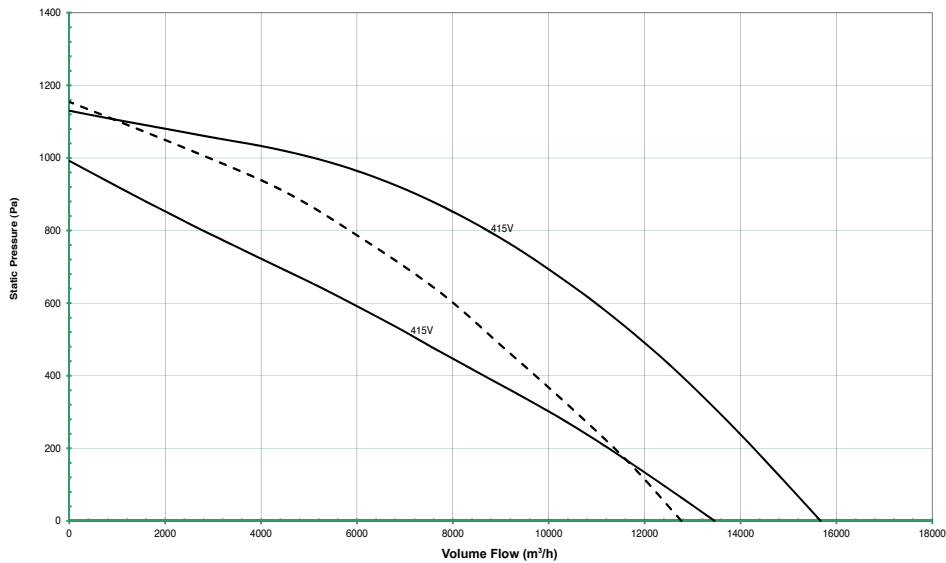
ESTOC 80-630-3 - BI101221



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

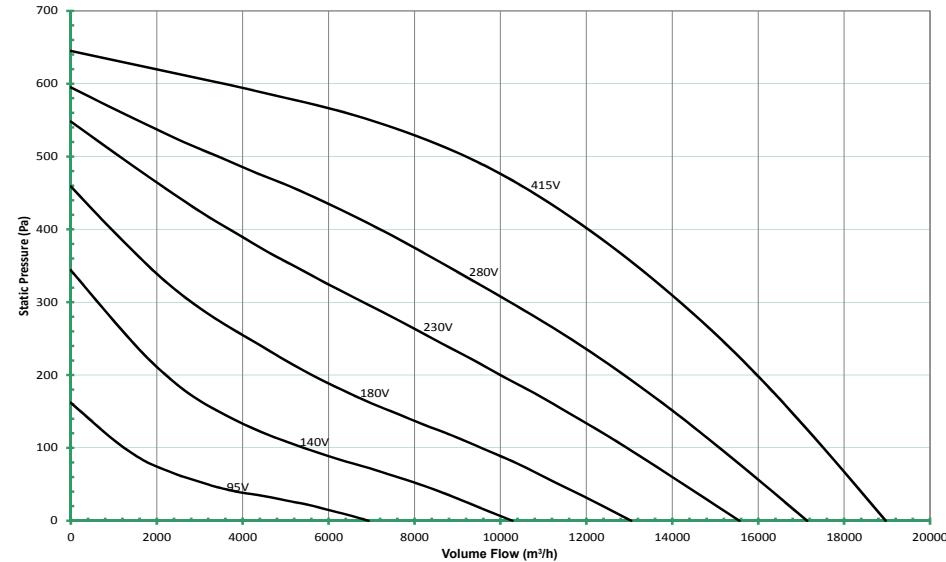
Performance Data

ESTOC 80-630-3 - UB806344



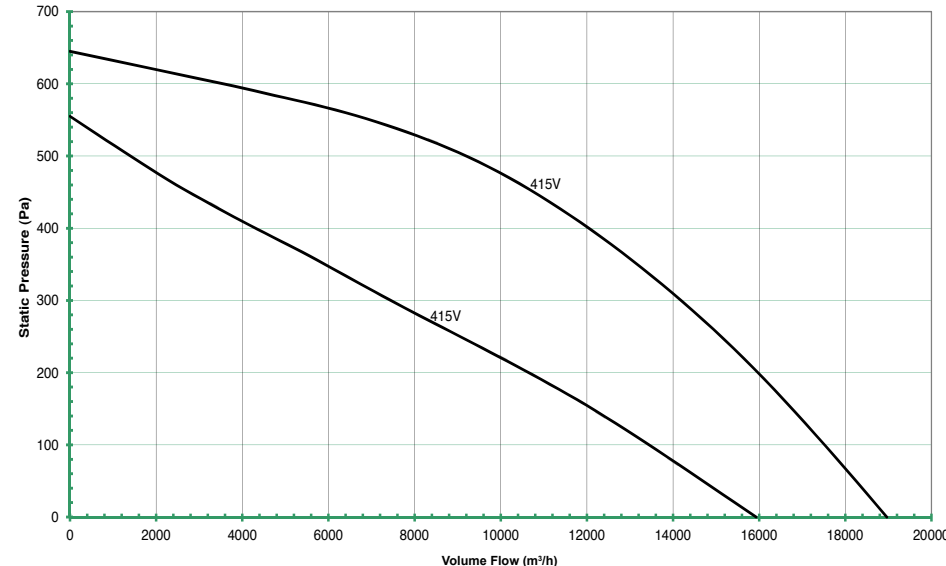
Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

ESTOC 102-710-3 - BI101222



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.

ESTOC 102-710-3 - UB107166



Please note: Performance curve is at rated voltage, shown at in-line axial air flow within Estoc Unit.