

Duct Fans - ESTOC EC Range



Features

- Sizes from 355 to 630 mm diameter
- Air flow 19,000 m³/h (4.3 m³/s)
- Static pressures up to 840 Pa
- Maximum temperature up to 60°C
- Controllable external rotor motors
- Multiple outlet orientations

Electrical Supply

380 - 420V / 50Hz / 3 Ph

Sizes

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

Features and Construction

The Estoc EC casing is galvanized and made from sheet steel with PentaPost Construction and acoustic insulation made from fibre glass with a thickness of 20 mm.

Impeller

The Estoc EC 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 EC (electronically controlled) external rotor motors are dynamically balanced to quality standard G2,5 DIN ISO 19410

Speed Controllers

Speed is variable using auto transformers and includes a integrated emergency switch which is controllable using a 0-10v signal (please see page 99).

Product Code

Estoc EC 50-355

- ESTOC = Product Name
- EC = EC Motor
- 50 = Box Size ie, 50 = 500mm; 67 = 670mm;
80 = 800mm; 102 = 1020mm
- 355 = Spigot diameter size

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



SSD



SAD



SOC



SWR



CIG



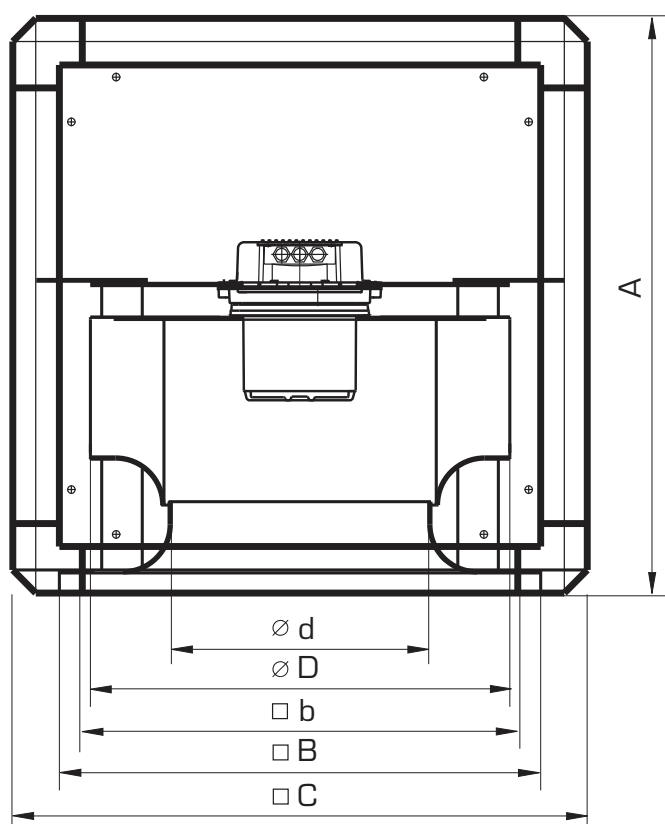
SWR

Electrical Details and Sound Levels

Product Code	Product Number	Speed rpm	Motor Frame	Electrical Supply	Electrical Current			Wiring Diagrams	Maximum Operating Temp °C	Breakout *Sound Level db(A) (3m)	**Speed Controllers Potentiometer
					Motor (kW)	Full Load Current (A)	Starting Current (A)				
ESTOC EC 50-355	UB503559	1500	Integral	220-240 V/50 Hz/1 Ph	0.35	2.1	2.1	CD3013	50	37	✓
ESTOC EC 67-400	UB674059	1500	Integral	220-240 V/50 Hz/1 Ph	0.62	3.7	3.7	CD3015	50	43	✓
ESTOC EC 67-450	UB674559	1450	Integral	220-240 V/50 Hz/1 Ph	1	5.7	5.7	CD3015	50	47	✓
ESTOC EC 80-500	UB805069	1500	Integral	380-420 V/50 Hz/3 Ph	1.9	3	3	CD3010	50	50	✓
ESTOC EC 80-560	UB805669	1400	Integral	380-420 V/50 Hz/3 Ph	2.8	4.3	4.3	CD3010	50	50	✓
ESTOC EC 102-630	UB106369	1100	Integral	380-420 V/50 Hz/3 Ph	2.3	3.7	3.7	CD3010	50	43	✓

*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	∅ D	∅ d	Max Weight Kg
ESTOC EC 50-355	500	450	420	500	359	228	36
ESTOC EC 67-400	670	620	590	670	404	257	47
ESTOC EC 67-450	670	620	590	670	454	289	53
ESTOC EC 80-500	800	720	690	800	510	325	84
ESTOC EC 80-560	800	720	690	800	570	362	86
ESTOC EC 102-630	1020	940	910	1020	640	410	102

All dimensions shown in mm

Wiring Diagrams

CD3013



CD3015

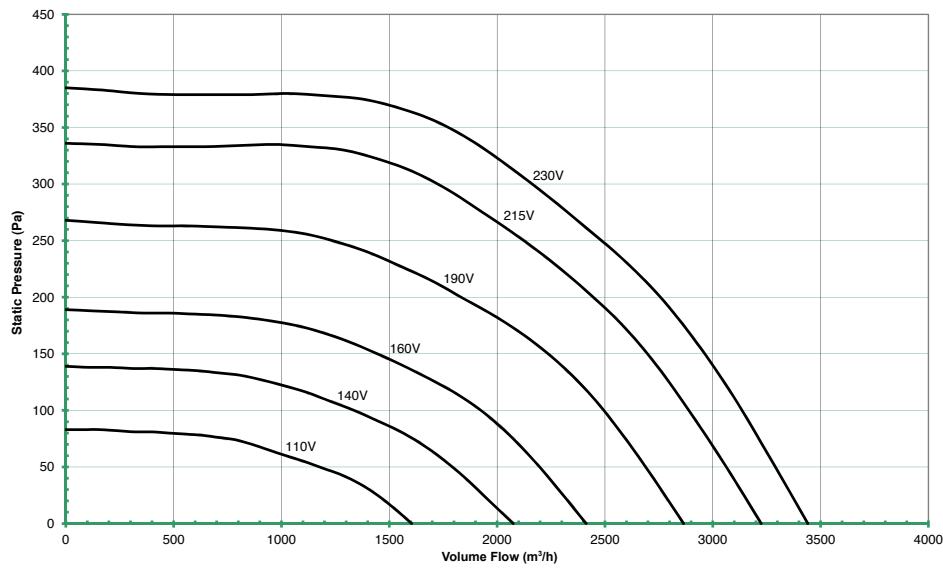


CD3010

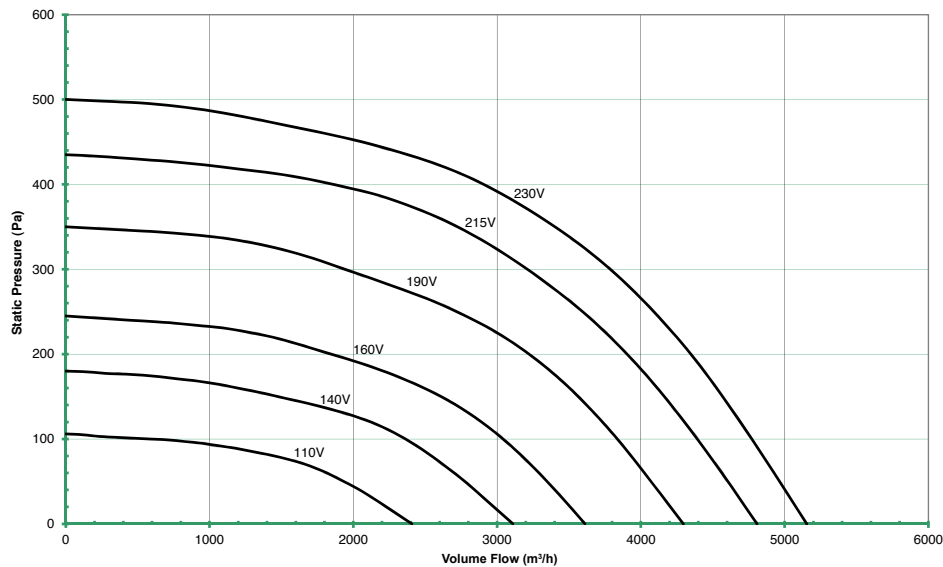


Performance Data

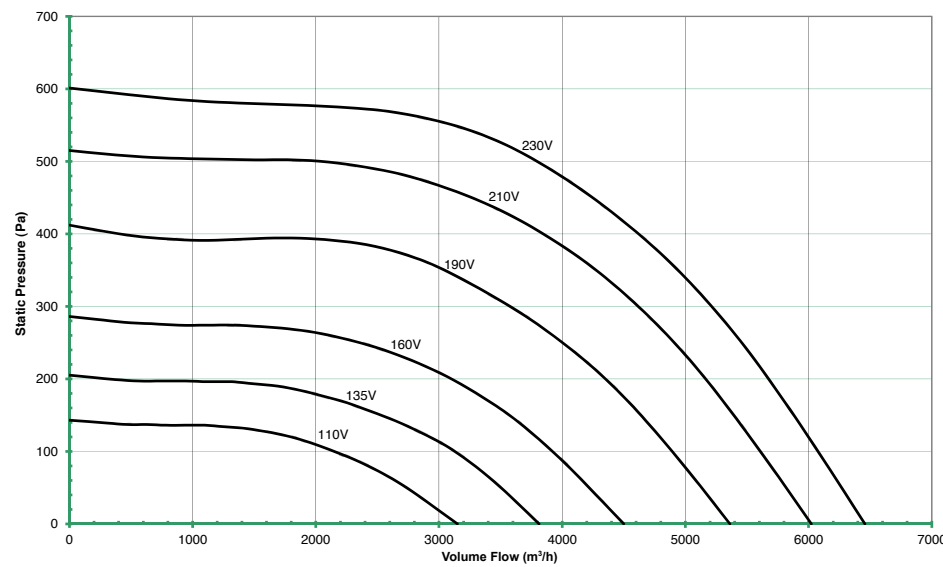
ESTOC EC 50-355



ESTOC EC 67-400

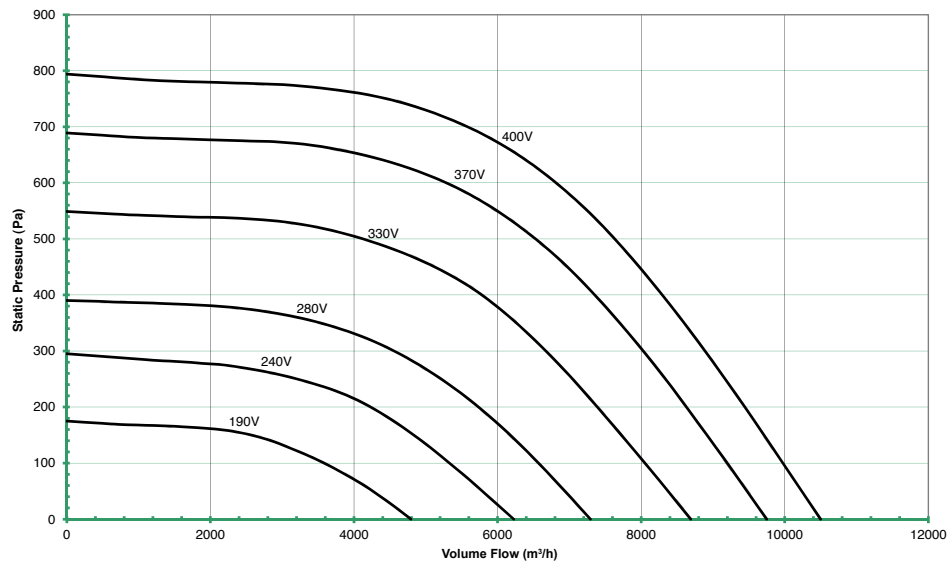


ESTOC EC 67-450

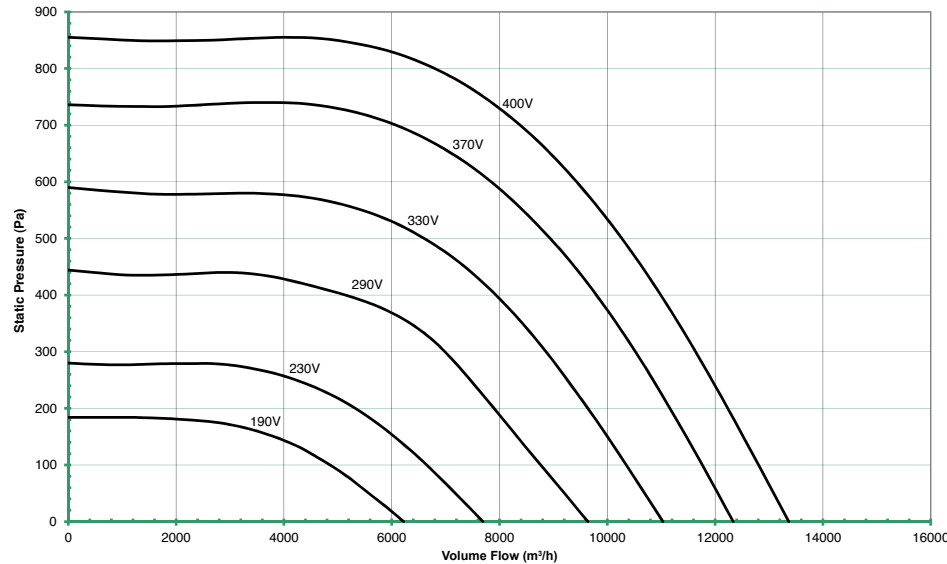


Performance Data

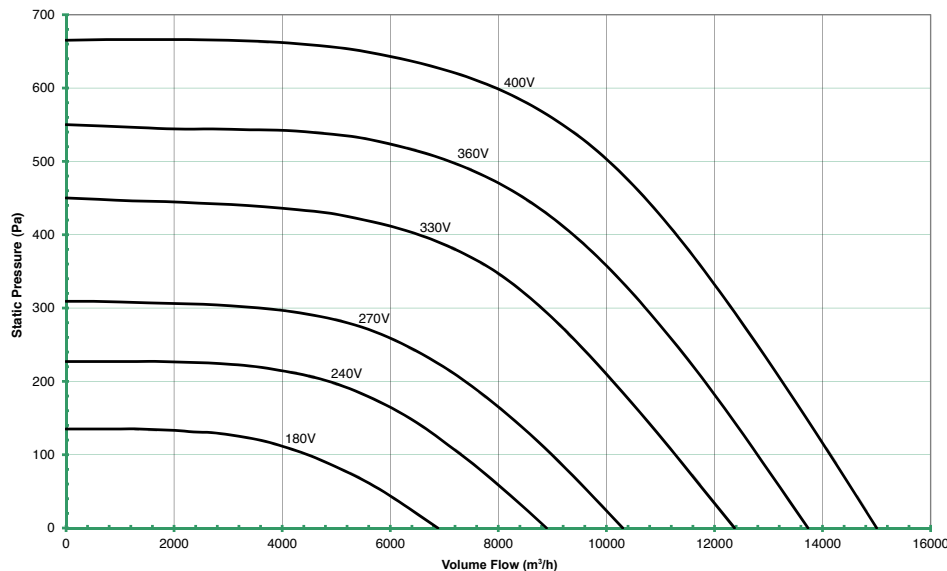
ESTOC EC 80-500



ESTOC EC 80-560



ESTOC EC 102-630



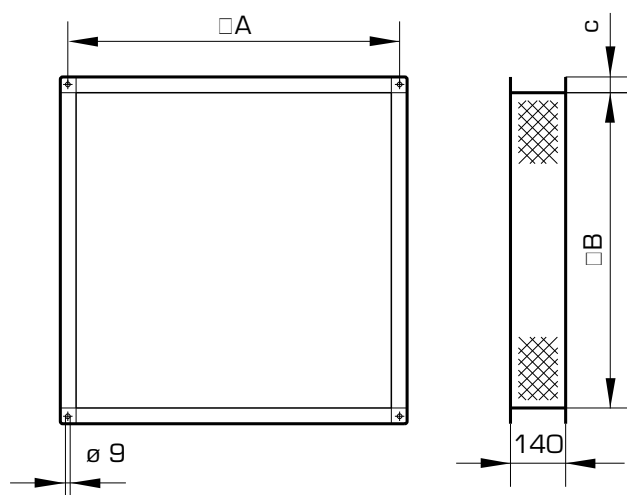
Accessories

SFC - Flexible Connection



Estoc and Estoc EC SFC connections are made of galvanized sheet steel. Flexible middle section made of PVC woven cloth with a temperature range up to +70°C.

Estoc Targe connections are made of galvanized sheet steel. Flexible middle section made of PU coated fibre glass cloth with a temperature range up to +180°C.



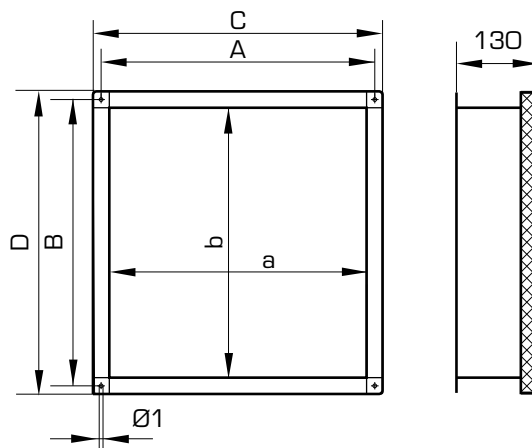
Product Code	Product Number	A	B	C
ESTOC/ESTOC EC 50-355	BI101030	433	409	20
ESTOC/ESTOC EC 67-400	BI101031	603	579	20
ESTOC/ESTOC EC 67-500	BI101031	603	579	20
ESTOC/ESTOC EC 80-560	BI101033	697	659	30
ESTOC/ESTOC EC 80-630	BI101033	697	659	30
ESTOC/ESTOC EC 102-710	BI101035	917	879	30

Product Code	Product number	Inlet or Outlet	A	B	C
ESTOC TARGE 50-355	BI101073	Outlet	398	218	30
ESTOC TARGE 50-355	BI101074	Inlet	388	388	30
ESTOC TARGE 67-400+450	BI101075	Outlet	568	258	30
ESTOC TARGE 67-400+450	BI101076	Inlet	488	488	30
ESTOC TARGE 80-500+630	BI101077	Outlet	698	338	30
ESTOC TARGE 80-500+630	BI101078	Inlet	618	618	30
ESTOC TARGE 102-630	BI101079	Outlet	918	398	30
ESTOC TARGE 102-630	BI101080	Outlet	788	788	30

SIC - Insulating Connection



Insulating connection made of galvanized sheet steel for easy cleaning. Mechanical isolation through EPDM - foamed rubber



Part Number	Product Number	a	b	A	B	C	D
ESTOC TARGE 50-355	BI101142	360	180	390	210	420	240
ESTOC TARGE 50-355	BI101143	350	350	380	380	410	410
ESTOC TARGE 67-400	BI101144	530	220	560	250	590	280
ESTOC TARGE 67-400	BI101145	450	450	480	480	510	510
ESTOC TARGE 67-450	BI101144	530	220	560	250	590	280
ESTOC TARGE 67-450	BI101145	450	450	480	480	510	510
ESTOC TARGE 80-500	BI101148	660	300	690	330	720	360
ESTOC TARGE 80-500	BI101149	580	580	610	610	640	640
ESTOC TARGE 80-560	BI101148	660	300	690	330	720	360
ESTOC TARGE 80-560	BI101149	580	580	610	610	640	640
ESTOC TARGE 80-630	BI101148	660	300	690	330	720	360
ESTOC TARGE 80-630	BI101149	580	580	610	610	640	640
ESTOC TARGE 102-630	BI101154	880	360	910	390	940	420
ESTOC TARGE 102-630	BI101155	750	750	780	780	810	810

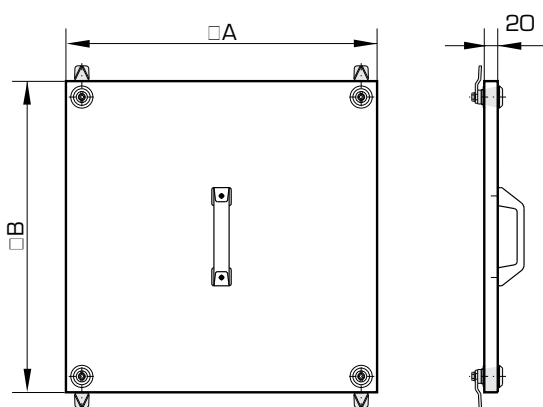
All dimensions shown in mm

Accessories

SSD - Service Door



Service door for an easy access to the motorized impeller.



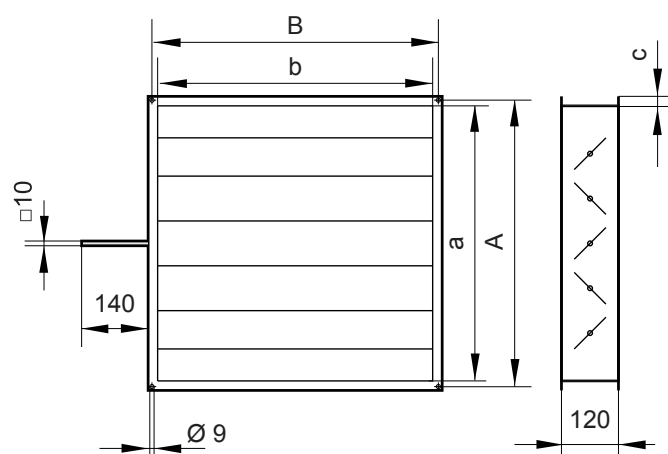
Product Code	Product Number	A	B
ESTOC/ESTOC EC 50-355	BI101042	450	450
ESTOC/ESTOC EC 67-400	BI101043	620	620
ESTOC/ESTOC EC 67-500	BI101043	620	620
ESTOC/ESTOC EC 80-560	BI101045	720	720
ESTOC/ESTOC EC 80-630	BI101045	720	720
ESTOC/ESTOC EC 102-710	BI101047	940	940

Product Code	Product Number	A	B
ESTOC TARGE 50-355	BI101093	450	340
ESTOC TARGE 67-400	BI101094	620	420
ESTOC TARGE 67-450	BI101094	620	420
ESTOC TARGE 67-500	BI101096	620	510
ESTOC TARGE 80-560	BI101097	720	360
ESTOC TARGE 80-630	BI101097	720	360

SAD - Air Damper



For mounting on estoc. Casings made of galvanized sheet steel, lamellas of aluminium. Exterior adjusting lever for regulating mechanism of lamellas.



Product Code	Product Number	a	b	A	B	c
ESTOC/ESTOC EC 50-355	BI101048	409	409	433	433	20
ESTOC/ESTOC EC 67-400	BI101049	579	579	603	603	20
ESTOC/ESTOC EC 67-500	BI101049	579	579	603	603	20
ESTOC/ESTOC EC 80-560	BI101051	659	659	697	697	30
ESTOC/ESTOC EC 80-630	BI101051	659	659	697	697	30
ESTOC/ESTOC EC 102-710	BI101053	879	879	917	917	30

Product Code	Product Number	a	b	A	B	c
ESTOC TARGE 50-355	BI101100	359	180	397	218	30
ESTOC TARGE 67-400	BI101101	529	220	567	258	30
ESTOC TARGE 67-450	BI101101	529	220	567	258	30
ESTOC TARGE 67-500	BI101103	659	300	697	338	30
ESTOC TARGE 80-560	BI101103	659	300	697	338	30
ESTOC TARGE 80-630	BI101103	659	300	697	338	30
ESTOC TARGE 102-630	BI101106	879	359	917	397	30

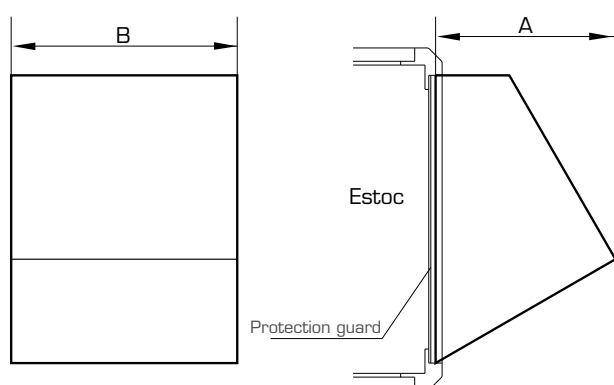
All dimensions shown in mm

Accessories

SOC - Outlet Cover



Rain safe outlet cover made of galvanized sheet steel, for installation in free-blowing unit.



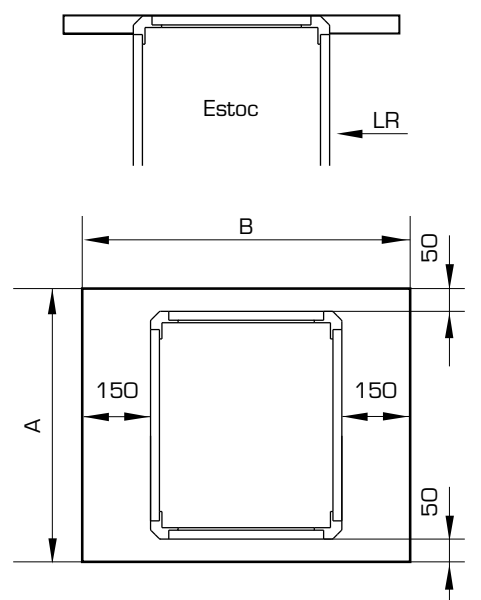
Product Code	Product Number	A	B
ESTOC/ESTOC EC 50-355	BI101054	300	450
ESTOC/ESTOC EC 67-400	BI101055	380	620
ESTOC/ESTOC EC 67-500	BI101055	380	620
ESTOC/ESTOC EC 80-560	BI101057	430	720
ESTOC/ESTOC EC 80-630	BI101057	430	720
ESTOC/ESTOC EC 102-710	BI101059	520	940

Product Code	Product Number	A	B
ESTOC TARGE 50-355	BI101107	300	240
ESTOC TARGE 67-400	BI101108	380	280
ESTOC TARGE 67-450	BI101108	380	280
ESTOC TARGE 80-500	BI101110	430	360
ESTOC TARGE 80-560	BI101110	430	360
ESTOC TARGE 80-630	BI101110	430	360
ESTOC TARGE 102-630	BI101113	520	420

SWR - Roof Weather Protection



Additional protection when mounted outside made of corrosion-resistant aluminium.



Product Code	Product Number	A	B
ESTOC/ESTOC EC 50-355	BI101060	600	800
ESTOC/ESTOC EC 67-400	BI101061	770	970
ESTOC/ESTOC EC 67-450	BI101061	enq	enq
ESTOC/ESTOC EC 67-500	BI101061	770	970
ESTOC/ESTOC EC 80-560	BI101063	900	1100
ESTOC/ESTOC EC 80-630	BI101063	900	1100
ESTOC/ESTOC EC 102-710	BI101065	1120	1320

Product Code	Product Number	A	B
ESTOC TARGE 50-355	BI101121	600	720
ESTOC TARGE 67-400	BI101122	770	800
ESTOC TARGE 67-450	BI101122	770	800
ESTOC TARGE 67-500	BI101124	900	890
ESTOC TARGE 80-560	BI101125	900	1040
ESTOC TARGE 80-630	BI101126	900	1100
ESTOC TARGE 102-710	BI101127	1120	1180

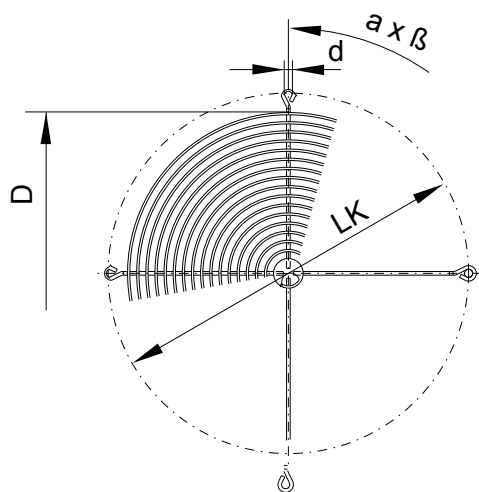
All dimensions shown in mm

Accessories

SIG - Protection Guard



Protection guard for suction side cover made of steel.

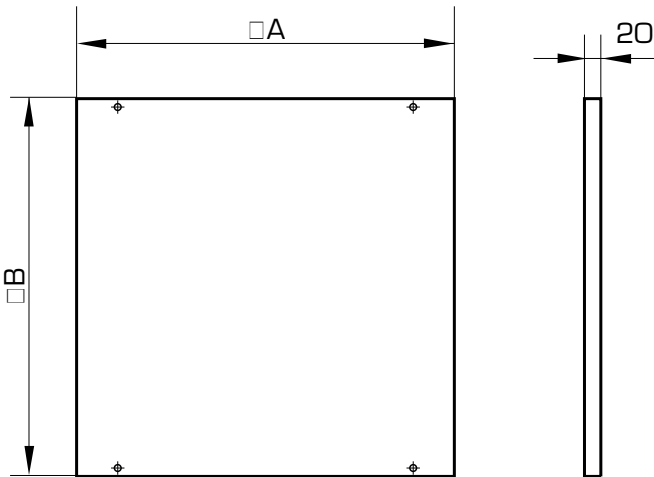


Product Code	Product Number	D	LK	d	a x β
ESTOC/ESTOC EC 50-355	BI101066	270	320	9	3x120°
ESTOC/ESTOC EC 67-400	BI101067	310	356	9	3x120°
ESTOC/ESTOC EC 67-450	BI101068	350	395	9	4x90°
ESTOC/ESTOC EC 67-500	BI101069	390	438	9	4x90°
ESTOC/ESTOC EC 80-560	BI101070	450	490	11,5	4x90°
ESTOC/ESTOC EC 80-630	BI101071	490	541	11,5	4x90°
ESTOC/ESTOC EC 102-710	BI101072	630	674	11,5	8x45°

SSC - Side Covering



For covering of casing sides with integrated insulating.



Product Code	Product Number	A	B
ESTOC/ESTOC EC 50-355	BI101036	450	450
ESTOC/ESTOC EC 67-400	BI101037	620	620
ESTOC/ESTOC EC 67-500	BI101037	620	620
ESTOC/ESTOC EC 80-560	BI101039	720	720
ESTOC/ESTOC EC 80-630	BI101039	720	720
ESTOC/ESTOC EC 102-710	BI101041	940	940

Product Code	Product Number	A	B
ESTOC TARGE 50-355	BI101081	450	340
ESTOC TARGE 67-400	BI101082	590	420
ESTOC TARGE 67-450	BI101082	590	420
ESTOC TARGE 80-500	BI101084	720	510
ESTOC TARGE 80-560	BI101085	720	220
ESTOC TARGE 80-560	BI101086	720	360
ESTOC TARGE 80-560	BI101087	720	280
ESTOC TARGE 80-630	BI101085	720	220
ESTOC TARGE 80-630	BI101086	720	360
ESTOC TARGE 80-630	BI101087	720	280
ESTOC TARGE 102-630	BI101091	940	300
ESTOC TARGE 102-630	BI101092	940	420

All dimensions shown in mm

Accessories

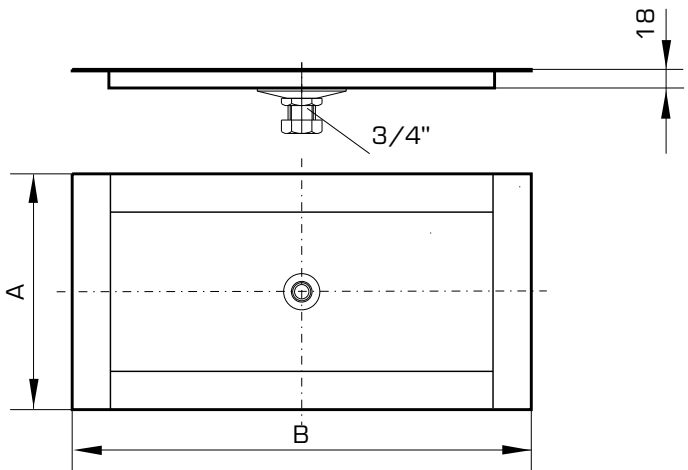
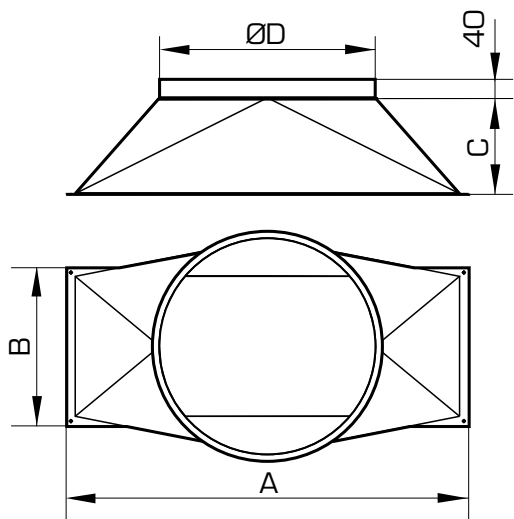
STP - Adapter Piece (Estoc Targe only)

SDT - Drip Tray (Estoc Targe only)



Allows seamless intersection on outlet side on a standard diameter, made of galvanized sheet steel.

For absorbing of condensation with discharge nozzles for flexible tube connection. Connection: 3/4".



Product Code	Product Number	A	B	C	ØD	Hole (St./Pcs.)
ESTOC TARGE 50-355	BI101114	418	238	250	355	4
ESTOC TARGE 67-400	BI101115	588	278	280	450	6
ESTOC TARGE 67-450	BI101115	588	278	280	450	6
ESTOC TARGE 80-500	BI101117	718	358	320	560	6
ESTOC TARGE 80-560	BI101117	718	358	320	560	6
ESTOC TARGE 80-630	BI101117	718	358	320	560	6
ESTOC TARGE 102-630	BI101120	938	418	400	630	8

Product Code	Product Number	A	B
ESTOC TARGE 50-355	BI101128	268	448
ESTOC TARGE 67-400	BI101129	308	618
ESTOC TARGE 67-450	BI101129	308	618
ESTOC TARGE 80-500	BI101131	368	748
ESTOC TARGE 80-560	BI101132	388	748
ESTOC TARGE 80-630	BI101132	388	748
ESTOC TARGE 102-630	BI101134	448	968

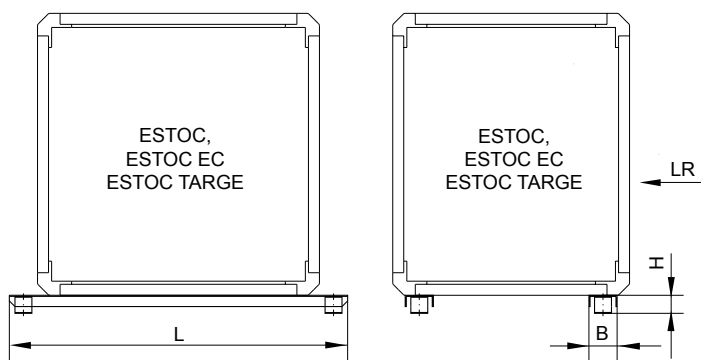
All dimensions shown in mm

Accessories

SMT - Mounting Track



For quick and easy assembly. One delivery set contains two pieces.



	Part Code	Part Number	L	B	H
ESTOC TARGE 50-355	ESTOC/ESTOC EC 50-355	BI101135	600	50	32
ESTOC TARGE 67-400	ESTOC/ESTOC EC 67-400	BI101136	770	50	32
ESTOC TARGE 67-450	ESTOC/ESTOC EC 67-450	BI101136	770	50	32
ESTOC TARGE 80-500	ESTOC/ESTOC EC 80-500	BI101136	900	60	52.5
ESTOC TARGE 80-560	ESTOC/ESTOC EC 80-560	BI101138	900	60	52.5
ESTOC TARGE 80-630	ESTOC/ESTOC EC 80-630	BI101138	900	60	52.5
ESTOC TARGE 102-630	ESTOC/ESTOC EC 102-630	BI101141	1120	60	52.5

All dimensions shown in mm