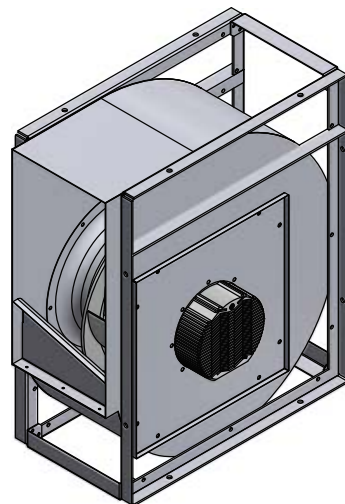


**EC-BCS
Series**



**EC Single Inlet Centrifugal Fan
Backward Curve**





EC Single Inlet Centrifugal Fan

Introduction

The EC-BCS series provides a **compact** and **high efficiency** solution for modern ventilating system. The high efficiency **external rotor EC motor** allows fan to accurately perform according to required air flow and static pressure without energy wasteful damping. It is the ideal choice for modern **GREEN** buildings.

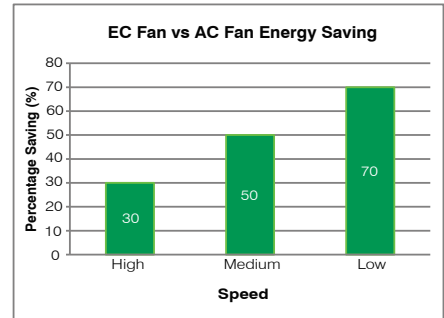
In addition to the compact design, the electronic parts, impeller and motor form an integrated unit as compare to the conventional belt-driven SWSI centrifugal fan, this increases the product reliability and reduces installation works and time

Range

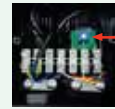
EC-BCS 315 to EC-BCS 630, total 6 models

Features

- **Energy saving**, the EC motor allows the fan to run at lowest RPM ensuring lowest sound level and higher energy saving
- **Speed controllable**
- **Maintenance free**, no need regular belt-tensioning, fan and motor bearing greasing
- **Inspection door and drain plug** are provided for easy servicing
- **Detachable impeller and motor** for ease of repair/replacement without the need to dismantle the inlet and outlet ducts
- Built-in
 - **soft start** function
 - **0-10VDC speed controller**
 - **overcurrent protection**
 - **phase loss protection**
 - **locked rotor protection**
 - **circuit board over heat protection**



Built-in Speed Controller



Conversion Table

Air Flow

L/s	m ³ /hr	m ³ /s	CFM
1	3.6	0.001	2.119
0.278	1	0.278 x 10 ⁻³	0.588
1000	3600	1	2119
0.063	0.227	0.063 x 10 ⁻³	0.1337
0.472	1.7	0.472 x 10 ⁻³	1

Static Pressure

psi	kg / cm ²	W . G .		Pascal (pa)
		(in.)	(ft.)	
1	0.07	27.7	2.309	0.69 x 10 ⁴
14.22	1	394.08	32.84	9.81 x 10 ⁴
3.61 x 10 ⁻²	2.538 x 10 ⁻³	1	0.083	248.84
1.45 x 10 ⁻⁴	0.1 x 10 ⁻⁴	0.004	3.349 x 10 ⁻⁴	1

Specification

Casing

- Material : GI steel with Pittsburgh join
- Other : c/w access door and drain plug

Impeller

- Material : Aluminium alloy
- Type : Backward curved
- The impeller, motor & electronics system are optimally matched and dynamically balanced

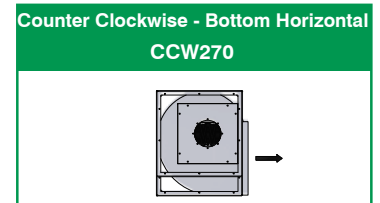
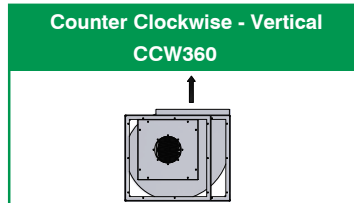
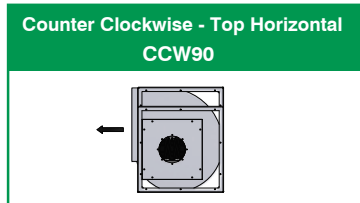
Motor

- High efficiency **EC External Rotor Motor**
- Speed controllable via **0-10VDC (Built-in)** or **PWM (Optional)**
- Insulation : Class F
- IP 54 protection

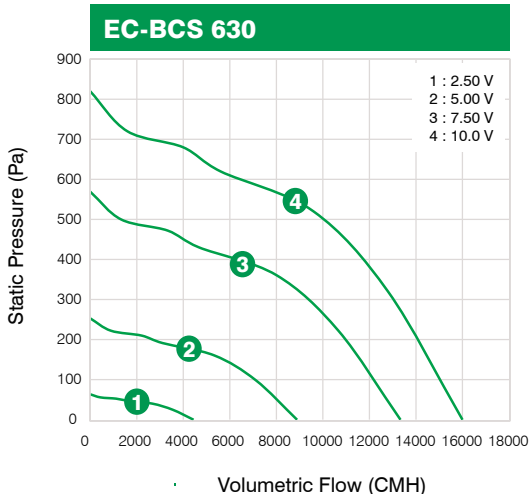
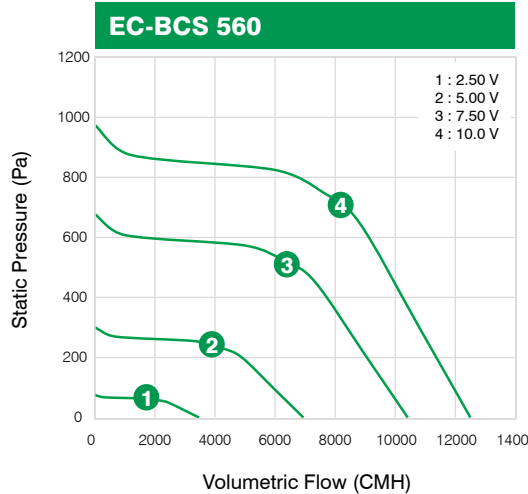
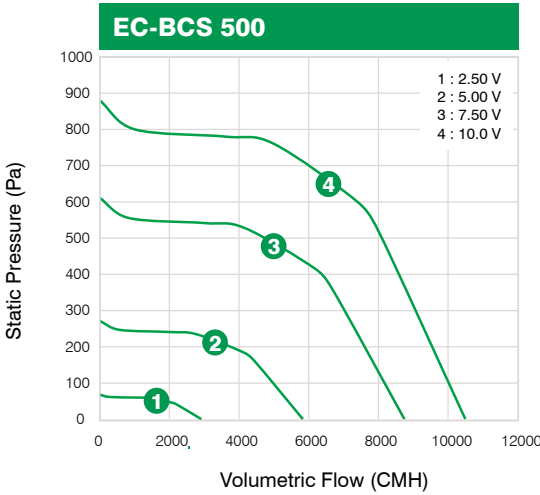
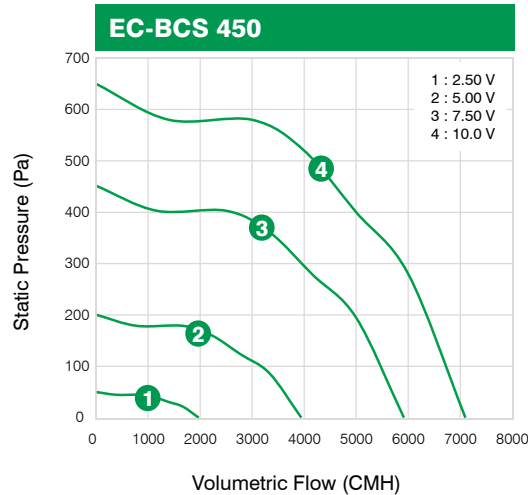
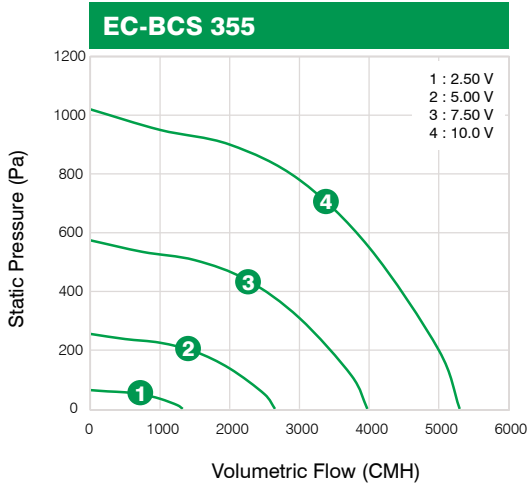
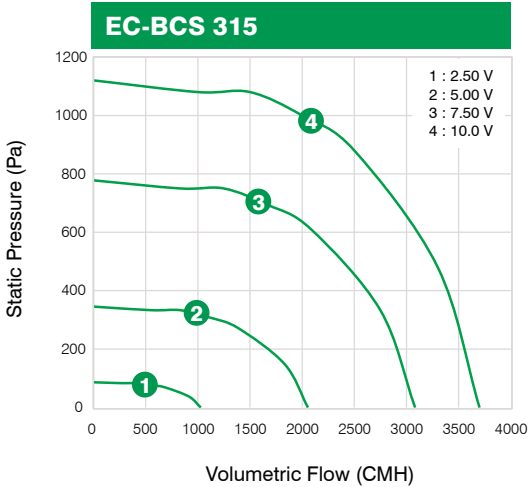
Operating Temperature

- -25°C to +60°C

Air Discharge Arrangement (All EC-BCS Models)



Performance Curve

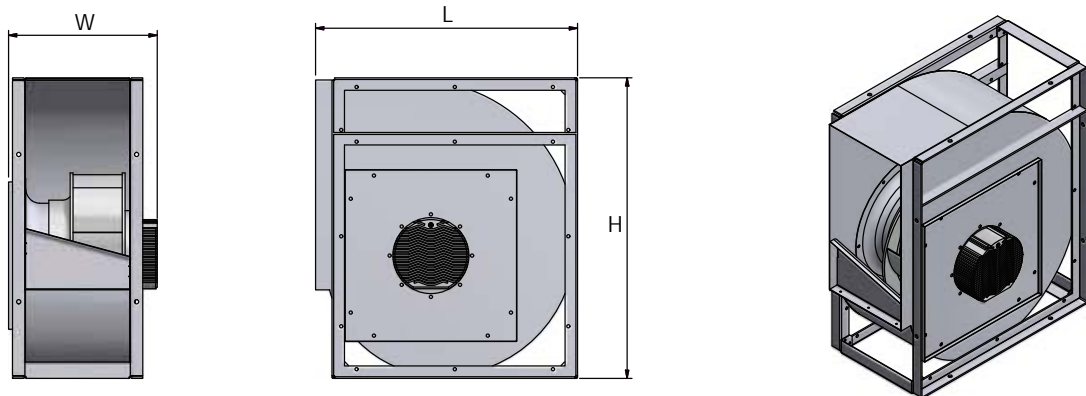


Technical Data

Model	EC-BCS 315	EC-BCS 355	EC-BCS 450	EC-BCS 500	EC-BCS 560	EC-BCS 630
Phase / Volt (V)	3/380 - 480					
Frequency (Hz)	50/60					
Current (A)	1.5		1.3	2.6	2.7	2.6
Max Input Power (W)	1100	1200	1040	2330	3000	2500
Air Flow (CMH)	3700	5300	7100	10500	12500	16000
Max RPM	3150	2350	1575	1650	1500	1200
Sound Pressure dB(A) @ 3m (Free Field)	41 (2.5V)	35 (2.5V)	34 (2.5V)	35 (2.5V)	42 (2.5V)	42 (2.5V)
	56 (5.0V)	50 (5.0V)	49 (5.0V)	50 (5.0V)	57 (5.0V)	57 (5.0V)
	65 (7.5V)	59 (7.5V)	58 (7.5V)	59 (7.5V)	66 (7.5V)	66 (7.5V)
	68 (10.0V)	65 (10.0V)	62 (10.0V)	63 (10.0V)	70 (10.0V)	70 (10.0V)

Dimension (mm)

EC BCS-(CCW90 / 270 / 360)



Model	L	H	W	Weight (Kg)
EC-BCS 315	518	578	320	51
EC-BCS 355	578	654	363	54
EC-BCS 450	726	827	402	71
EC-BCS 500	800	918	454	93
EC-BCS 560	892	1030	486	113
EC-BCS 630	998	1157	537	131

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