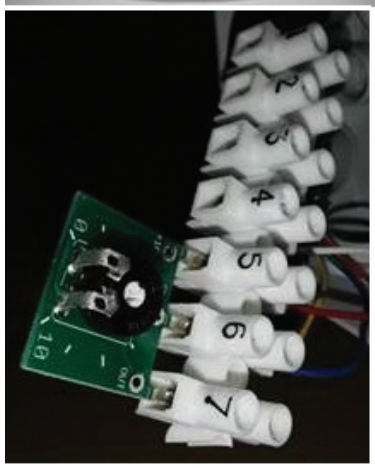
BCS-ECP

- Duct fans
- Circular
- Powder coated sheet steel
- Centrifugal
- EC 230 V



Duct fans with EC-motor + integrated potentiometer type BCS-ECP

Centrifugal duct fan with an EC motor EBM Papst with integrated potentiometer

Application

- **BCS-EC** fans are designed to be built-in in circular ducts
- They are used for ventilation in many applications such as offices, restaurants, technical rooms or other

Composition

- Backward curved impeller made of plastic (EBM Papst)
- EC-motor (EBM Papst) 230 V ca 1ph, speed controllable by means of a 10k Ohm potentiometer or a external signal 0-10V Vdc, protection class IP54, insulation class B
- Integrated automatic thermal contact with automatic restart, locked-rotor protection, softstart
- Maintenance-free, long-life ball bearings
- Sheet steel housing powder coated RAL 7035
- Junction box IP54 with cable gland
- Mounting bracket included
- With integrated potentiometer for an unique adjustment

Accessories

- Potentiometer, type **ESCP010**
- Clamping strip, type **BMK**
- Safety grille, type **BSV-S**

Text for tender

- The fans shall be of the centrifugal in-line duct type with backward curved impeller and with external 230V rotor motor with thermal protection. IP54, class F, junction box IP54. Sheet steel housing powder coated RAL 7035. The maximum working temperature shall be 55°C to 80°C, depending on the model.

A potentiometer is integrated in the connection box for one-off measurement of the flow. If you want to adjust the flow from a distance, you must also provide the **MPT010** potentiometer option, the cabling of which must be done on the construction side.

- **ATC** type **BCA**.

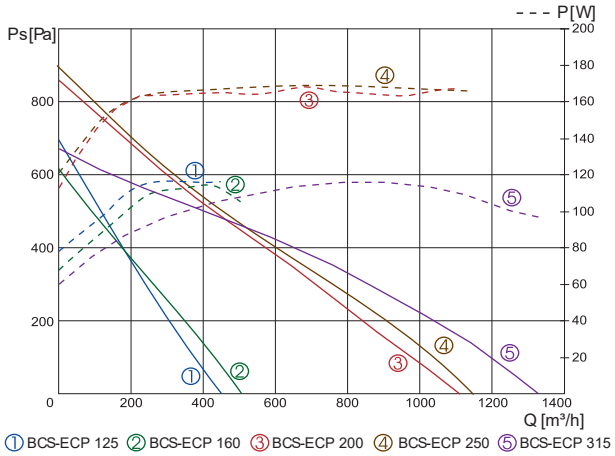
Order example

BCS-ECP250 + ESCP010

- **BCS-EC** = type of fan
- **250** = diameter
- **ESCP010** = potentio-meter

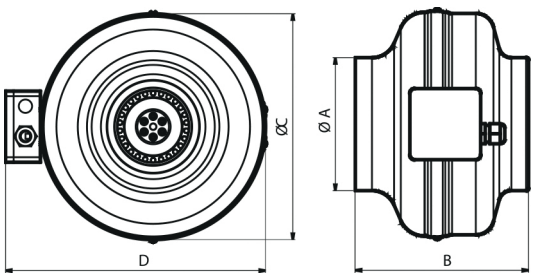
Air performance data										
	Q [m³/h]									
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa	700Pa
BCS-ECP 125	415	375	340	305	270	235	175	115	-	-
BCS-ECP 160	470	430	390	345	305	260	175	90	55	-
BCS-ECP 200	1050	985	910	840	780	710	570	430	295	180
BCS-ECP 250	1100	1045	975	910	840	755	600	455	320	200
BCS-ECP 315	1270	1200	1125	1035	955	860	650	400	145	-

Selection curves



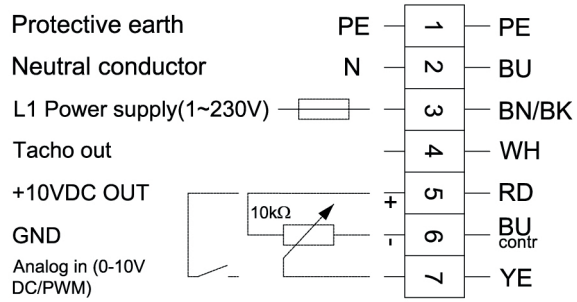
Technical data												
	U [V]	P [W]	I [A]	SC_P	η_t [%]	Tm [°C]	Tu [°C]	To [°C]	n [rpm]	Lwa [dB(A)]		
										Lwa 5	Lwa 6	Lwa 2
BCS-ECP 125	230	85	0.87	ESCP010	-	60	60	-25	3200	69	69	55
BCS-ECP 160	230	83	0.88	ESCP010	-	60	60	-25	3200	72	72	59
BCS-ECP 200	230	170	1.59	ESCP010	-	45	45	-25	3210	75	75	59
BCS-ECP 250	230	170	1.32	ESCP010	-	45	45	-25	3210	77	77	60
BCS-ECP 315	230	166	1.56	ESCP010	-	60	60	-25	2550	78	78	62

- SC_P = Potentiometer 0-10V
- η_t = Maximum total efficiency
- Tm = Maximum air temperature
- Tu = Maximum ambient temperature
- To = Minimum operating temperature
- Lwa 2 = Casing sound power level
- Lwa 5 = Sound power level @inlet
- Lwa 6 = Sound power level @outlet
- The sound power levels are measured according to DIN 45635



Dimensions					
	ØA [mm]	B [mm]	ØC [mm]	D [mm]	[kg]
BCS-ECP 125	125	207 ±2	245	290	2.36
BCS-ECP 160	160	200 ±2	245	290	2.66
BCS-ECP 200	200	240 ±2	345	390	4.33
BCS-ECP 250	250	245 ±2	345	390	4.33
BCS-ECP 315	315	250 ±2	400	445	5.61

Wiring diagram



PE = green/yellow
BU = blue
BK = black
RD = red
YE = yellow
WH = white