



Centrifugal fan casing type BFI EC

Centrifugal fan casing with an insulation of 50mm, equipped with an EC motor, conforme directive **ErP2018**.

Application

- BFI EC fans are used for ventilation in places that require a low noise level, such as offices, restaurants, hotels,... and a low energy consumption.
- Only to be used for indoor installations

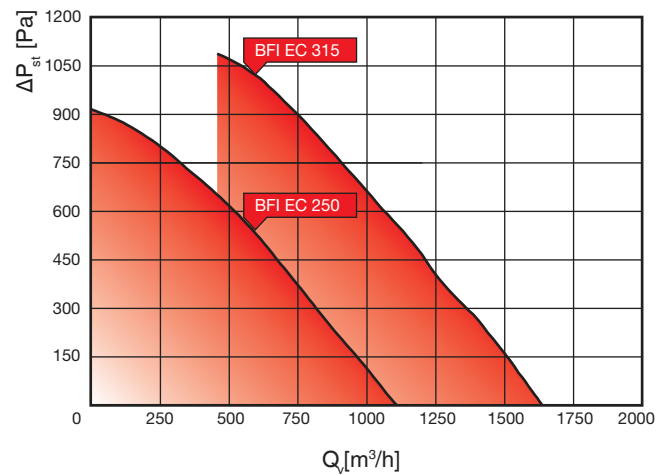
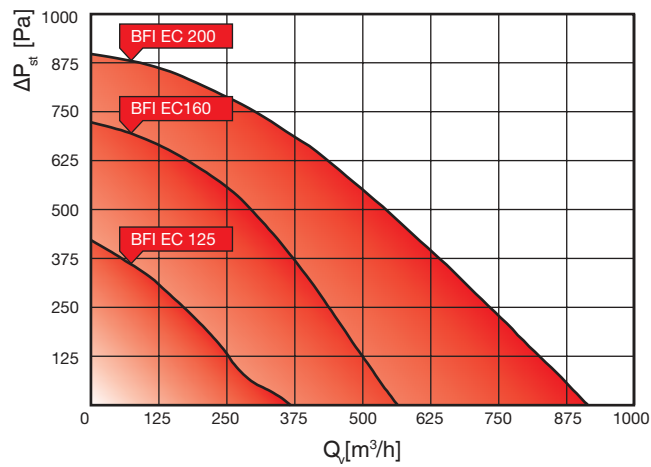
Composition

- Plug fan with an EC motor, brand EBM Papst type R3G, 230Vac 1ph, protection class IP44, insulation class B.
- Harmonics EMC in accordance with EN61000-3-2/3.
- Interference emission EMC in accordance with EN61000-6-3.
- Interference immunity EMC in accordance with EN61000-6-1.
- Backward curved impeller made out of PA66 plastic reinforced with glass fibre.
- Integrated thermal protection with auto restart.
- "Locked-rotor" protection.
- Ball bearings free of maintenance.
- Connection box IP55 with capacitor and cable gland.
- Velocity can be regulated by means of a potentiometer 10kOhm or an external signal 0-10V, which can be connected directly onto the terminal block.

Accessories

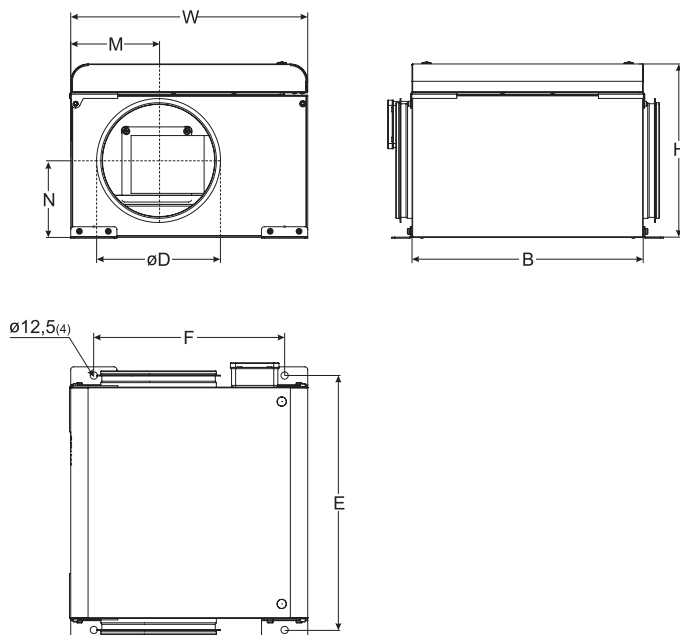
- Potentiometer **MTP010** of **MSS-D**
- Fitting clamp type **BMK**
- Safety guard type **BSV**

	Air performance data									
	Qv (m3/h)									
	50Pa	100Pa	150Pa	200Pa	250Pa	300Pa	400Pa	500Pa	600Pa	700Pa
BFI EC 125	240	200	170	140	100	50				
BFI EC 160	540	520	500	480	440	420	360	300	230	100
BFI EC 200	890	860	830	770	720	700	630	550	470	380
BFI EC 250	1110	1060	1020	960	920	860	750	670	560	450
BFI EC 315	1570	1520	1480	1450	1400	1340	1250	1170	1100	1000

Selection curves


	Technical data								Lwa [dB(A)]		
	U [V]	P [W]	I [A]	SCt	tot eff %	tm [°C]	ta [°C]	n [rpm]	Lwa 5	Lwa 6	Lwa 2
BFI EC 125	230	53	0.4	MTP10	14	60	40	4480	59	65	47
BFI EC 160	230	111	0.88	MTP10	38	60	40	3490	65	74	54
BFI EC 200	230	192	1.42	MTP10	40	60	40	3380	68	80	58
BFI EC 250	230	225	1.74	MTP10	42	60	40	3220	73	84	63
BFI EC 315	230	400	3	MTP10	45	60	40	3580	76	87	65

SC_T = transformer speed controller
 t_m = maximum air temperature,
 t_u = maximum ambient temperature
 Lwa 2 = Casing sound power level
 Lwa 5 = Sound power level @inlet
 Lwa 6 = Sound power level @outlet

product drawing


	Dimensions											
	B [mm]	W [mm]	H [mm]	H1 [mm]	M [mm]	N [mm]	ØD [mm]	E [mm]	S [mm]	F [mm]	G [mm]	Kg
BFI EC 125	400	410	325	332	205	165.50	125	440	330	45	45	12
BFI EC 160	550	485	340	407	149	194.50	160	590	405	45	45	19
BFI EC 200	600	545	425	467	170	259.50	200	640	465	45	45	24
BFI EC 250	600	545	425	467	194	234.50	250	640	465	45	45	24
BFI EC 315	675	595	475	517	227.50	251.50	315	715	515	45	45	31