BTP fans with **EC** motor

APPLICATION

BTP EC series fans are used in ventilation systems that require relatively high compression, strong air stream and low noise. They are an excellent solution for ventilation installations in residential buildings, collective housing and public utility buildings.

Dedicated for ventilation ducts with the following diameters in mm: 100, 125, 150/160, 200 and 250 mm.

CONSTRUCTION

BTP EC fans have compact dimensions, which makes them perfect for installations in limited spaces.

The fan housing is made of aluminium or steel and the rotor blades are made of high-quality plastic.

MOTOR

The fans use very efficient DC motors with EC technology with an external rotor and backward curved blades. This saves energy, achieves high efficiency and provides optimum control over the entire speed range.

SPEED CONTROL

The fan is switched on and its efficiency is controlled by an external 0-10 V control signal. When changing the value of the EC control parameter, the motor changes the speed to match the system requirements.

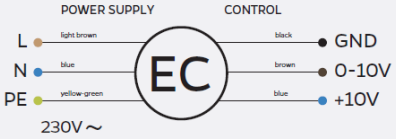
DESCRIPTION

Duct fans with EC motor with mixed flow rate and efficiency up to 1808 m^3/h.

INSTALLATION

The fan can be mounted at any angle on the fan axis. The electrical connection and installation should be carried out according to the instructions and wiring diagram provided in the DTR. It is recommended to connect them to the ventilation duct by means of an anti-vibration BOM mounting band.

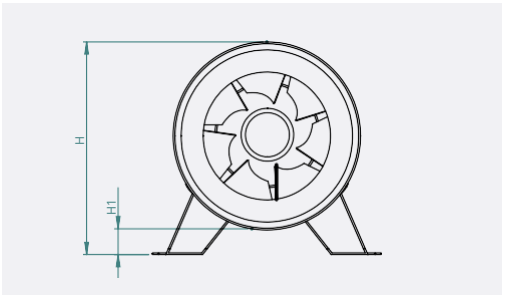
ELECTRICAL CONNECTION DIAGRAM

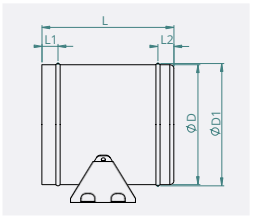


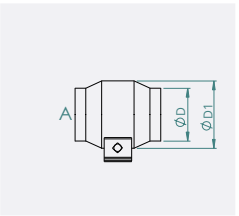
TECHNICAL CHARACTERISTICS

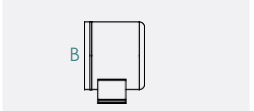
	BTP EC 100	BTP EC 125	BTP EC 150 / 160	BTP EC 200	BTP EC 250
Voltage (V)	230	230	230	230	230
Power (W)	18	20	40	75	150
Efficiency (m^3/h)	275	280	594	1205	1808
Max. revolutions (RPM)	5000	5000	5000	3800	3200
Noise level [dB(A)]	56	54	60	61	65
L_{pA} at a distance of 3 m [dB(A)]	50	49	54	56	60
Static pressure [Pa]	334	363	500	520	510
Weight (kg)	1.1	1.1	1.6	2.5	3
Safety class	IP X4	IP X4	IP X4	IP X4	IP X4

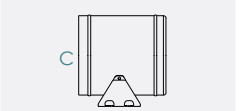
BODY TYPE











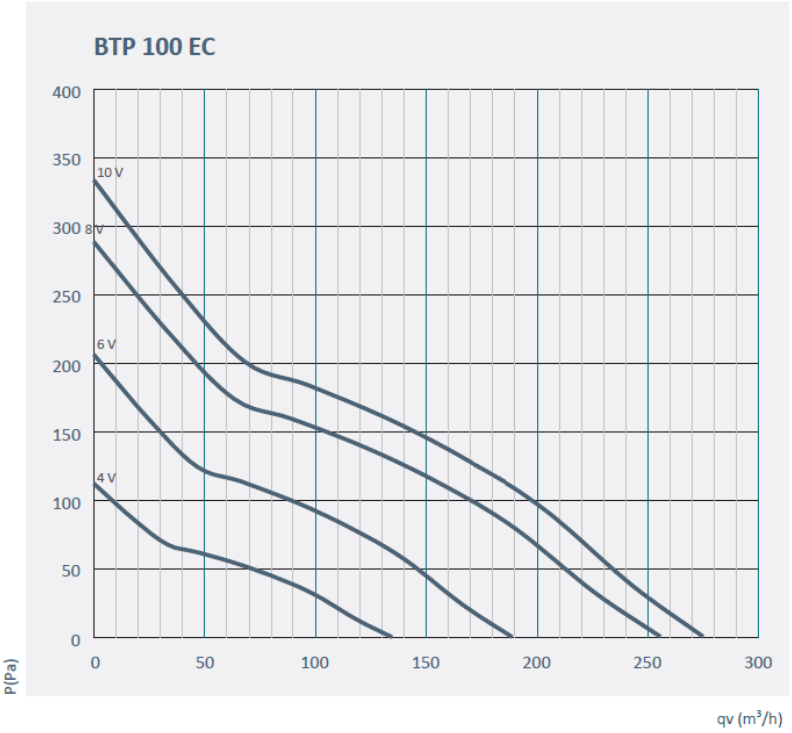
DIMENSIONS

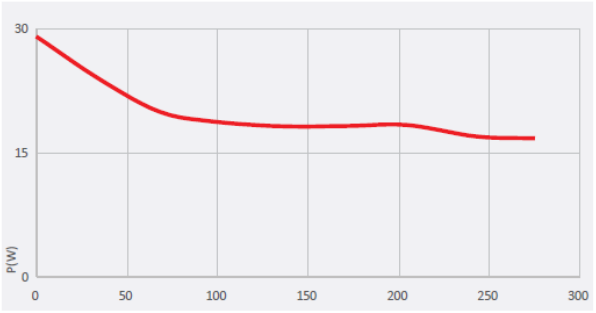
Fan	Body	D	D1	L	L1	L2	H	H1
BTP EC 100	A	98	125	159	20	20	150	25
BTP EC 125	B	124	126	110	-	12	151	26
BTP EC 150/160	C	150	153	165	20	20	173	21
BTP EC 200	C	200	203	220	30	30	223	22
BTP EC 250	C	250	254	210	35	35	274	22

VERSION

A – aluminium
B, C – steel

PERFORMANCE CURVES

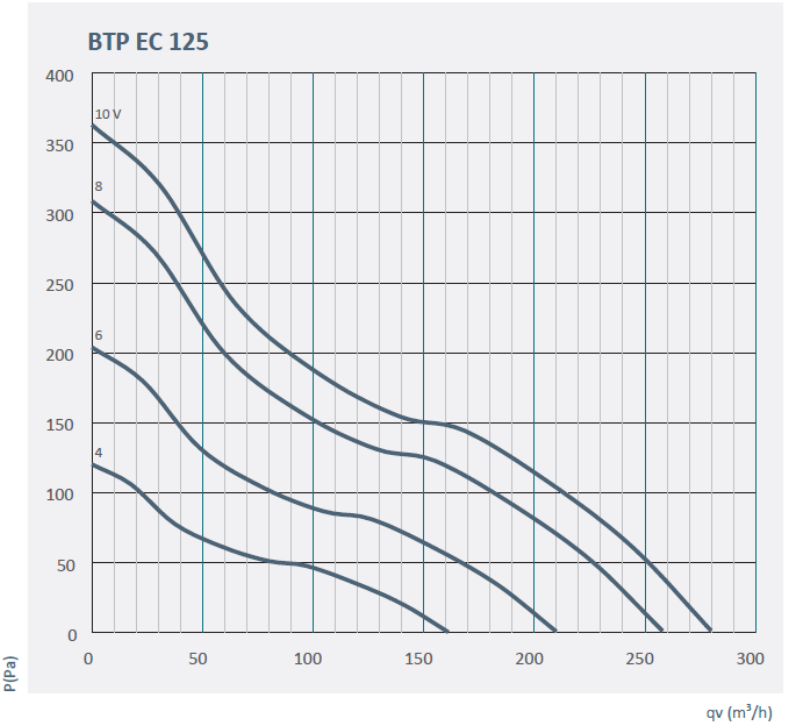


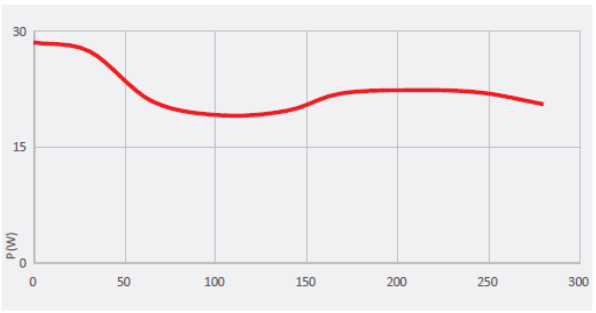


ACOUSTICS

BTP 100 EC	Lw [dB(A)]	125	250	500	1000	2000	4000
Max. inlet	68	33	43	54	58	56	51
Max. outlet	66	34	45	56	56	54	47
Max. emission	49	20	32	38	40	37	36
Min. inlet	41	21	26	26	32	26	10
Min. outlet	43	27	31	31	31	31	5
Min. emission	28	11	23	11	19	17	2

PERFORMANCE CURVES

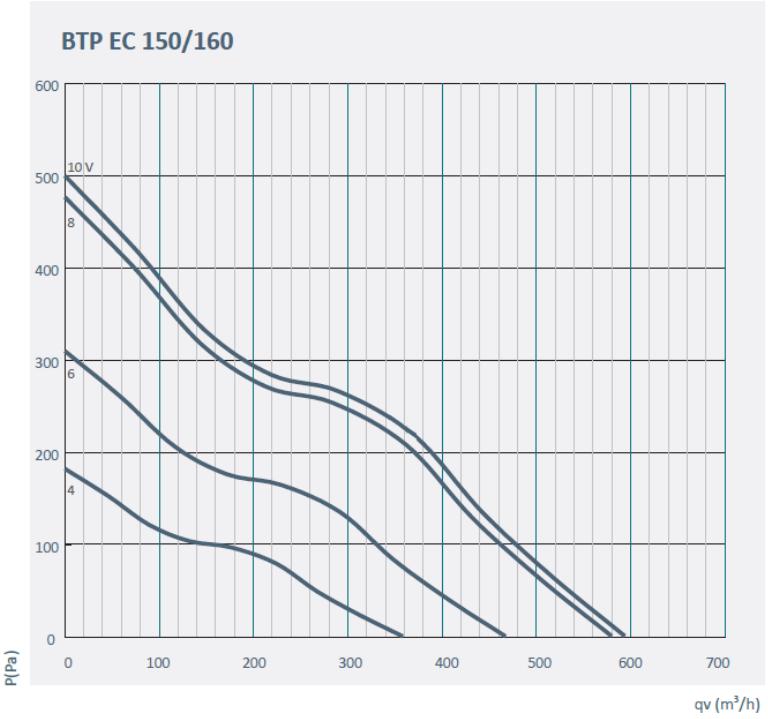


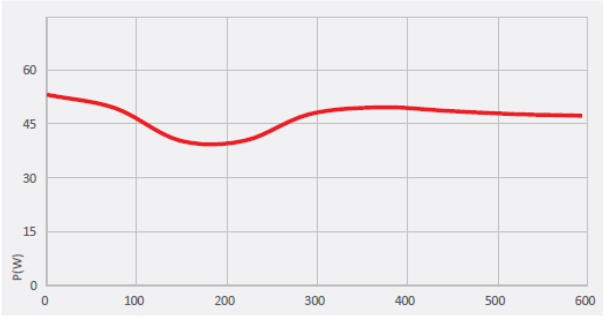


ACOUSTICS

BTP 125 EC	Lw [dB(A)]	125	250	500	1000	2000	4000
Max. inlet	64	31	41	54	51	55	54
Max. outlet	66	36	44	54	55	56	55
Max. emission	49	19	32	39	36	35	34
Min. inlet	42	24	29	33	35	28	17
Min. outlet	43	22	28	30	39	29	20
Min. emission	29	11	20	14	17	14	4

PERFORMANCE CURVES

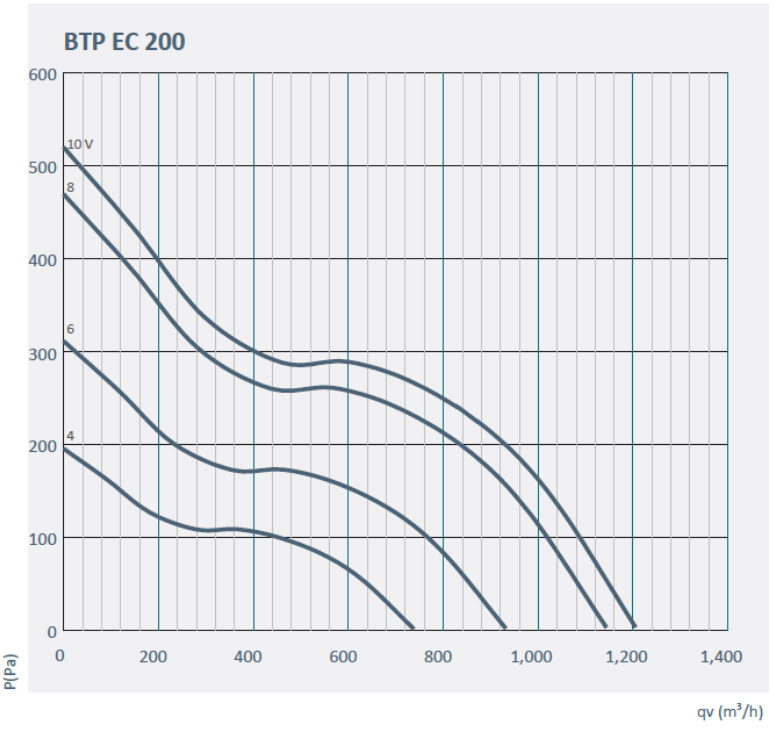


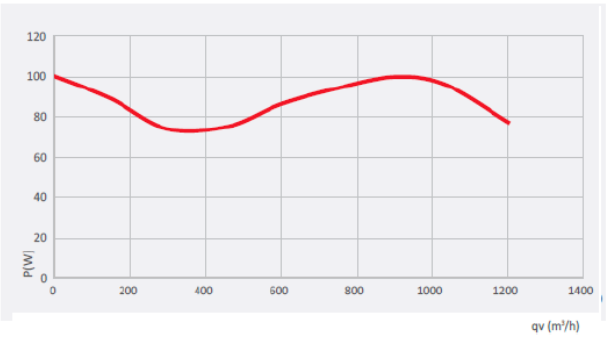


ACOUSTICS

BTP 150/160 EC	Lw [dB(A)]	125	250	500	1000	2000	4000
Max. inlet	68	48	49	56	56	59	56
Max. outlet	69	34	43	57	59	61	56
Max. emission	56	24	34	42	45	46	42
Min. inlet	46	27	31	36	34	36	24
Min. outlet	48	30	31	38	36	37	25
Min. emission	34	9	19	23	21	24	9

PERFORMANCE CURVES

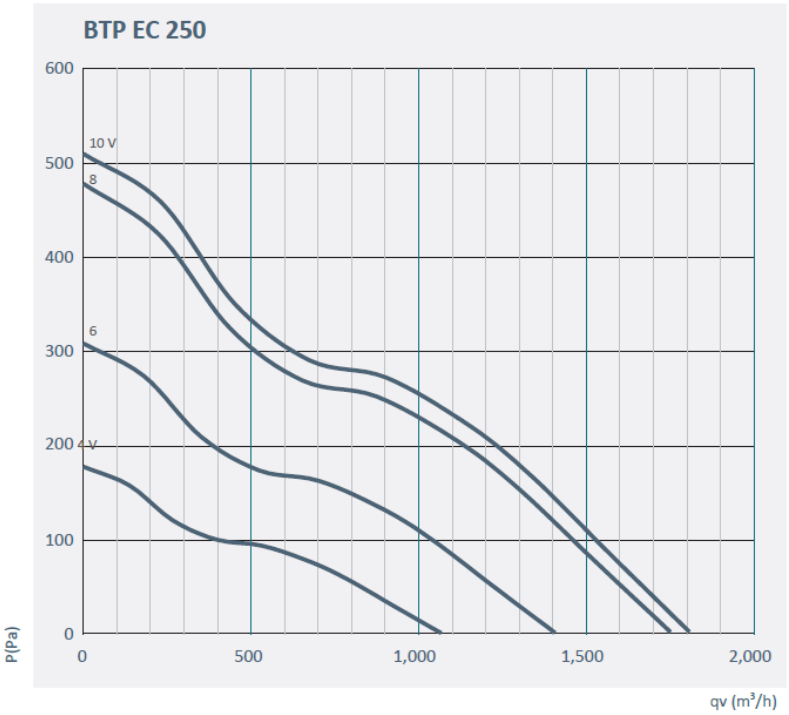


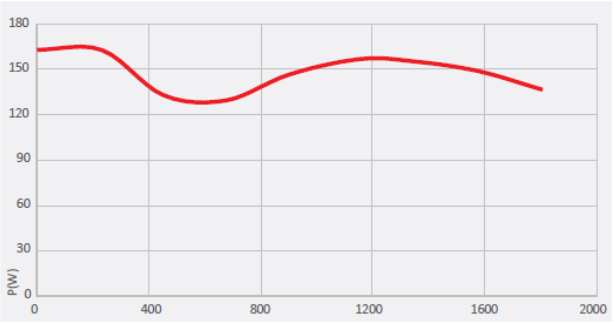


ACOUSTICS

BTP 200 EC	Lw [dB(A)]	125	250	500	1000	2000	4000
Max. inlet	70	34	46	59	59	60	58
Max. outlet	71	43	48	61	60	63	60
Max. emission	53	26	34	44	44	46	36
Min. inlet	51	23	31	40	43	42	32
Min. outlet	52	25	33	40	40	44	33
Min. emission	35	12	19	24	26	28	8

PERFORMANCE CURVES





ACOUSTICS

BTP 250 EC	Lw [dB(A)]	125	250	500	1000	2000	4000
Max. inlet	74	39	52	63	64	64	61
Max. outlet	74	42	51	62	65	66	61
Max. emission	56	25	41	45	46	44	40
Min. inlet	55	31	38	43	47	47	35
Min. outlet	51	29	32	40	42	43	29
Min. emission	33	14	19	18	20	20	7