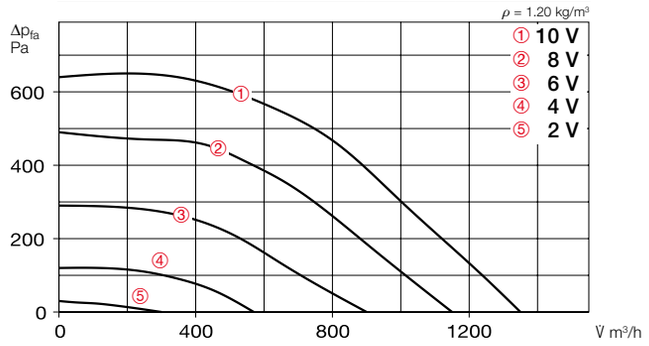
MB EC 225

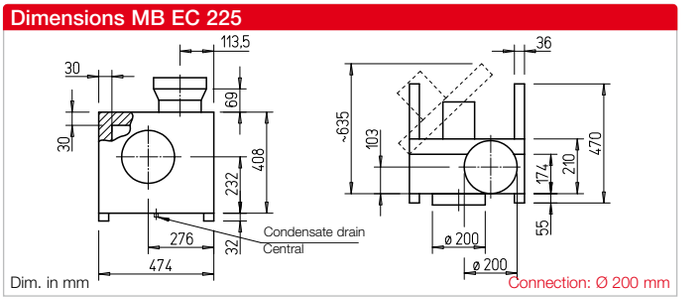
Performance curves MBW EC 225

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	63	47	50	52	58	57	51	41
L_{WA}	Inlet side	dB(A)	74	52	65	70	68	65	64	62
L_{WA}	Outlet side	dB(A)	77	53	64	73	67	70	66	61



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3000	1350	230	1.00	55	0.61
8	2600	1150	150	0.68	52	0.47
6	2000	900	90	0.42	47	0.34
4	1300	570	50	0.27	38	0.25

Dimensions MB EC 225



Dim. in mm

Connection: Ø 200 mm

Casing
Double-walled, made of galvanised steel sheet. Sound insulated by lining with 30 mm thick mineral wool insulation boards. Duct connectors on inlet side and outlet side, with rubber lip seal, adapted to standard diameter. Motor-impeller unit fully retractable for inspection and cleaning, suspended on stable hinges. Comes with condensate drain and drip protection with the doors open as standard. Includes mounting rails made of galvanised steel with screwed-on vibration dampers for easy installation.

Impeller
Backward curved, free-running high performance centrifugal impeller made of galvanised steel, mounted directly on motor shaft. High efficiency, low noise. Dynamically balanced in accordance with DIN ISO 21940-11 – quality grade 6.3.

Drive
Energy-saving, speed-controllable EC internal rotor motor in protection category IP55 with the highest level of efficiency, located outside of the air flow. Maintenance-free and radio interference-free, ball bearing mounted.

Electrical connection
Standard terminal box (IP55) mounted to external cable.

Motor protection
Integrated electronic temperature monitoring system for EC motor and electronics. The motor is deactivated if the maximum permissible temperature is exceeded.

Power control
Continuously variable speed control with potentiometer or continuously variable speed control with universal control system (see table).
Performance levels are shown in the performance curve as an example.

Noise
The total level and range are specified above the performance diagram for:
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

The case-radiated noise as sound pressure at 1 m (free field conditions) is also specified in the type table and the table below the performance curve.

Accessories

Wall bracket made of galv. steel sheet.
MB-WK EC225 Ref. no. 05526

Weather protection cover made of galv. steel sheet, mounted above motor.
MB-WSD EC225 No. 01856

Flexible connecting sleeve for installation between fan and duct.
☐ Max. temperature +70 °C
FM 200 Ref. no. 01670
☐ Max. temperature +120 °C
FM 200 T120 Ref. no. 01654

Accessory details	**Page**
Universal control system, electronic controller, speed potentiometer	613 ff.

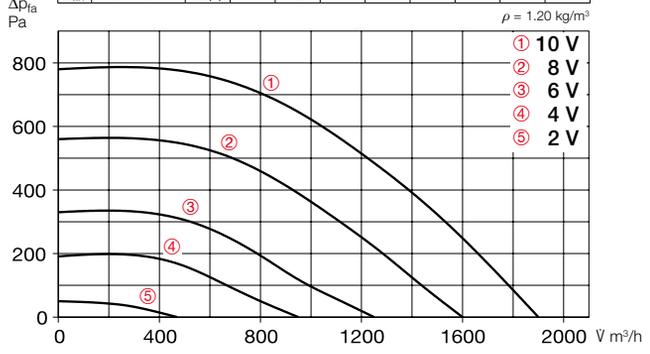
Type	Ref. no.	Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system		Speed potentiometer flush-mounted		Speed potentiometer surf.-mounted	
		mm	V̇ m³/h	min⁻¹	dB(A) at 1 m	kW	A	No.	+ °C	kg	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP55																
MBW EC 225	05842	200	1350	3000	55	0.27	1.20	985	100	25	**EUR EC** [1) 2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735

1) Multiple EC fans can normally be connected. 2) Alternative electronic diff. pressure/temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267).

MB EC 250

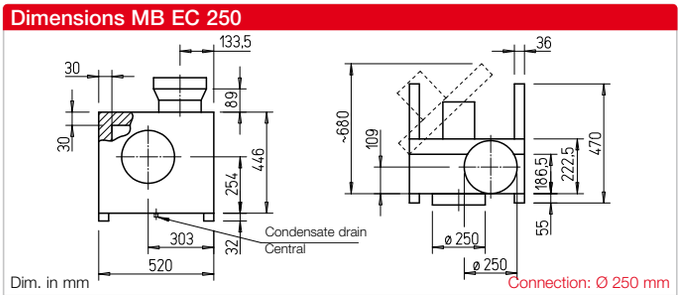
Performance curves MBW EC 250

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Radiation	dB(A)	64	43	52	60	56	57	52	46
L_{WA}	Inlet side	dB(A)	81	62	72	77	75	72	71	66
L_{WA}	Outlet side	dB(A)	83	62	71	79	75	76	71	65



	Free blowing					
Voltage V	**n** min⁻¹	**V̇** m³/h	**P** W	**I** A	**Lp** dB(A)	**SFP** kW/m³/s
10	3000	1900	310	1.30	56	0.59
8	2600	1600	200	0.90	51	0.45
6	2000	1250	110	0.51	47	0.32
4	1300	950	70	0.40	42	0.25

Dimensions MB EC 250



Casing
Double-walled, made of galvanised steel sheet. Sound insulated by lining with 30 mm thick mineral wool insulation boards. Duct connectors on inlet side and outlet side, with rubber lip seal, adapted to standard diameter. Motor-impeller unit fully retractable for inspection and cleaning, suspended on stable hinges. Comes with condensate drain and drip protection with the doors open as standard. Includes mounting rails made of galvanised steel with screwed-on vibration dampers for easy installation.

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- ☐ Outlet side sound power

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Accessories

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MB-WSD EC250 Ref. no. 01856

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☐ Max. temperature +70 °C
FM 250 Ref. no. 01672
☐ Max. temperature +120 °C
FM 250 T120 Ref. no. 01655

Accessory details	**Page**
Universal control system, electronic controller, speed potentiometer	613 ff.

Type	Ref. no.	Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system		Speed potentiometer flush-mounted		Speed potentiometer surf.-mounted	
		mm	V̇ m³/h	min⁻¹	dB(A) at 1 m	kW	A	No.	+ °C	kg	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP55																
MBW EC 250	05843	250	1900	3000	56	0.38	1.70	985	100	28.0	**EUR EC** [1)2)]	01347	**PU 10** [1)]	01734	**PA 10** [1)]	01735

1) Multiple EC fans can normally be connected. 2) Alternative electronic diff. pressure/temperature controller (EDR/ETR, No. 01437/01438) or three level speed switch (SU/SA, No. 04266/04267).