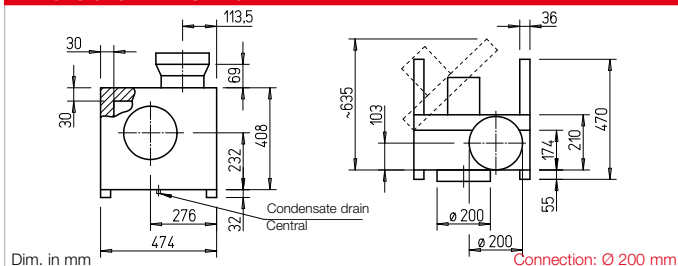


**MB EC 225**



**Dimensions MB EC 225**



**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**

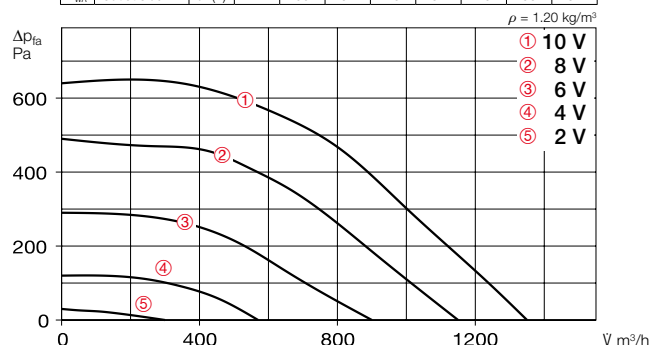
Standard terminal box (IP55) mounted to external cable.

**Motor protection**

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

**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



Voltage V	n min <sup>-1</sup>	V 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

**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.

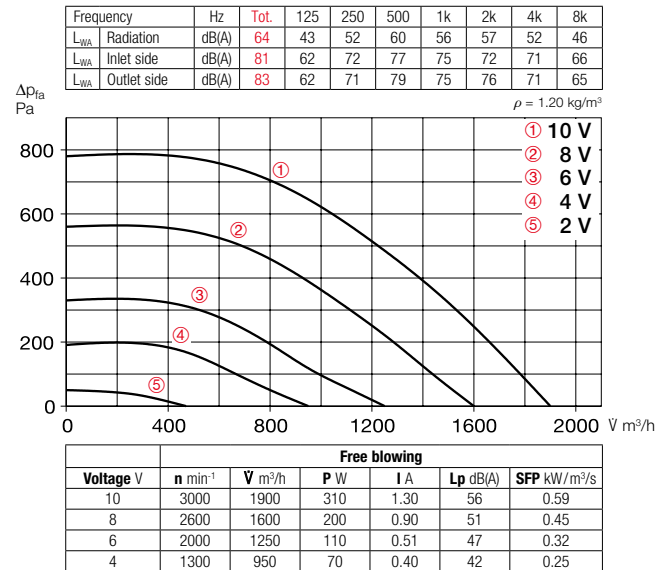
Type	Ref. no.	Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power con- sumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system		Speed potentiometer				
													flush-mounted		surf.-mounted		
				mm	V m³/h	min <sup>-1</sup>	dB(A) at 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	Type	Ref. no.	Type
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 <sup>1) 2)</sup> 01347	PU 10 <sup>1)</sup>	01734	PA 10 <sup>1)</sup>	01735		

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

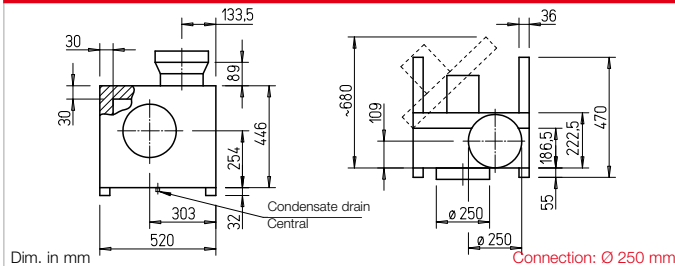
## MB EC 250



## Performance curves MBW EC 250



## 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.

### 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 EC250** Ref. no. 05526

**Weather protection cover** made of galv. steel sheet, mounted above motor.

**MB-WSD EC250** Ref. no. 01856

**Flexible connecting sleeve** for installation between fan and duct

- 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 con- sumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system	Speed potentiometer			
		mm	V m³/h	min <sup>-1</sup>	dB(A) at 1 m	kW	A	No.	+ °C	kg	Type	Ref. no.	flush-mounted	surf.-mounted	
													Type	Ref. no.	Type
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 <sup>1)2)</sup> 01347	PU 10 <sup>1)</sup>	01734	PA 10 <sup>1)</sup>	01735

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