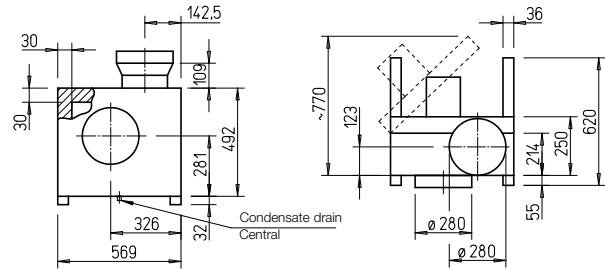


MB EC 280



Dimensions MB EC 280



Dim. in mm

Connection: Ø 280 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 aluminium, 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 (MBD EC 280 with EC external 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) on outside of motor, mounted to external cable for 1~ type.

■ Motor protection

Integrated electronic temperature monitoring system for EC motor and electronics. If the maximum permissible motor temperature is exceeded, 3~ types will automatically reduce the speed which then returns back to the originally set value after cooling down. The motors in 1~ types will be 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. MBD EC 280: Stepless speed control with internal push buttons (scope of delivery).

■ Noise

The total level and range are specified above the performance diagram for:

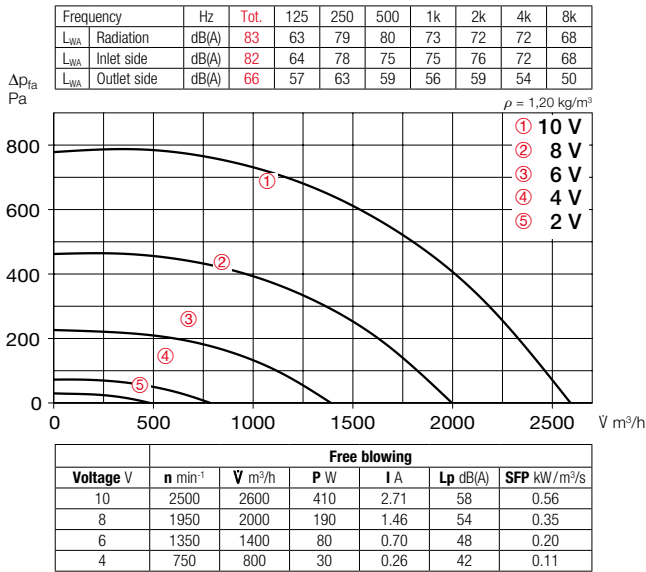
- Case-radiated sound power
- Inlet side sound power
- Outlet side sound power

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.

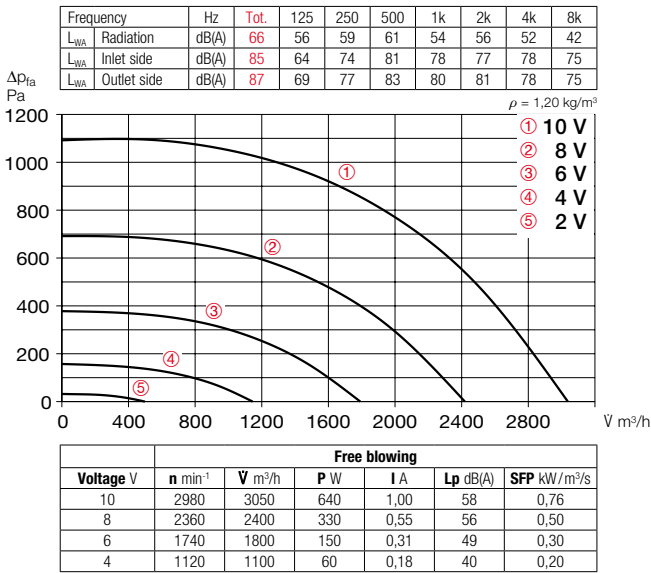
Type	Ref. no.	Connection Ø	Flow rate free blowing	Rated speed	Case-rad. sound pressure	Power consumption	Current consumption	Wiring diagram	Max. air flow temp.	Weight net aprx.	Universal control system		Speed potentiometer			
											Type	Ref. no.	flush-mounted	surf.-mounted	Type	Ref. no.
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP55																
MBW EC 280	05850	280	2630	2450	56	0.41	2.71	1568	100	33.0	EUR EC <sup>1)2)</sup>	01347	PU 10 <sup>1)</sup>	01734	PA 10 <sup>1)</sup>	01735
Three-phase current, 3~, 400 V, 50/60 Hz, EC motor, protection category IP55																
MBD EC 280	05845	280	3050	3000	58	0.78	1.20	1582	120	34.0	EUR EC <sup>1)2)</sup>	01347	PU 10 <sup>1)</sup>	01734	PA 10 <sup>1)</sup>	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).

**Performance curves MBW EC 280**



**Performance curves MBD EC 280**



**Accessories**

**Wall bracket**

Bracket for wall installation, made of galvanised steel sheet.

**MB-WK EC280** Ref. no. 05527



**Weather protection cover**

For protected outdoor coverage. Made of galvanised steel sheet, mounted above motor.

**MB-WSD EC280** No. 01856



**Flexible connecting sleeve**

Includes 2 hose clamps; for installation between fan and duct system. Prevents structure-borne noise transmission and bridges installation tolerances.

– Max. temperature +70 °C

**FM 280** Ref. no. 01673

– Max. temperature +120 °C

**FM 280 T120** Ref. no. 01656



**Universal control system**

For continuously variable control or regulation of single phase and three-phase EC fans with a setpoint input of 0–10 V DC.

**EUR EC** Ref. no. 01347



**Speed potentiometer**

For direct control/setpoint setting for EC fans with potentiometer input.

**PU 10** Ref. no. 01734

For flush-mounting.

**PA 10** Ref. no. 01735

For surface-mounting.



EC box fans

**Accessory details Page**

Universal control system, electronic controller, speed potentiometer	613 ff.
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