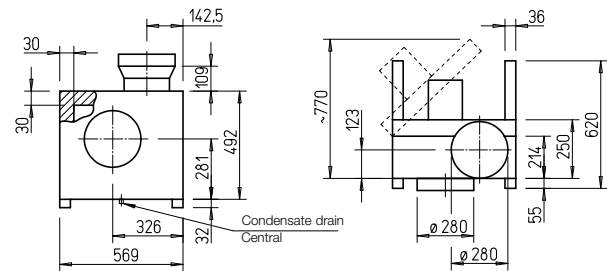


MB EC 280



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 a high level of efficiency, located outside of the air flow. Maintenance-free and 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:

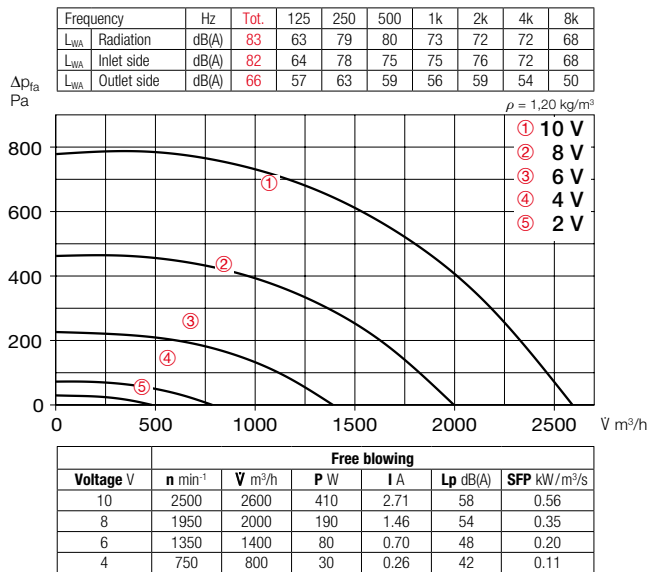
- ☐ Case-radiated sound power
- ☐ Inlet side sound power
- ☐ Outlet side sound power

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.

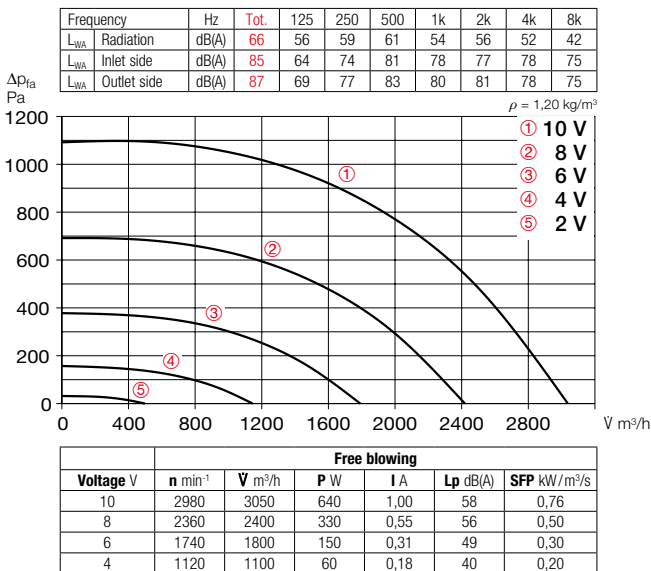
Type	Ref. no.	Connection	Flow rate	Rated	Case-rad.	Power con-	Current	Wiring	Max. air	Weight	Universal		Speed potentiometer			
		Ø	free	speed	sound	sumption	consumption	diagram	flow temp.	net	control system		flush-mounted		surf.-mounted	
		mm	blowing		pressure					aprx.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
			V m³/h	min ⁻¹	dB(A) at 1 m	kW	A	No.	+ °C	kg						
Alternating current, 1~, 230 V, 50/60 Hz, EC motor, protection category IP55																
MBW EC 280	05850	280	2630	2450	56	0.41	3.2	1568	100	33.0	EUR EC ^{1) 2)} 01347	PU 10 ¹⁾	01734	PA 10 ¹⁾	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	1.2	1582	120	34.0	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).

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.



Accessory details Page

Universal control system, electronic controller, speed potentiometer 615 ff.