HQ EC 250



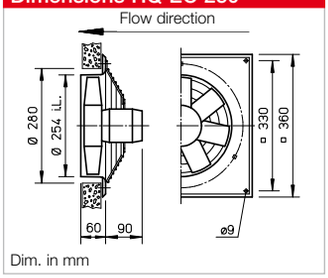
HW EC 250



HRF EC 250

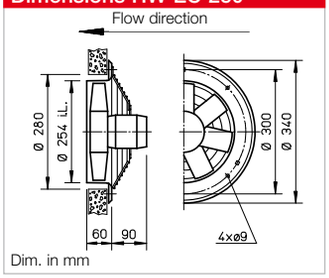


Dimensions HQ EC 250



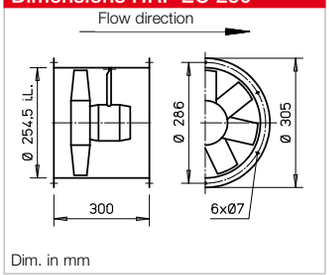
Dim. in mm

Dimensions HW EC 250



Dim. in mm

Dimensions HRF EC 250



Dim. in mm

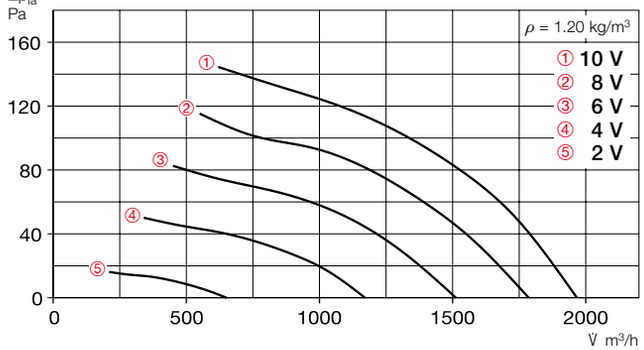
Description for all types

- **Casing**
  Made of galvanised steel sheet, types HQ and HW have additional two layer lacquer coating in papyrus white.
- **Impeller**
  High performance characteristics with profiled blades made of plastic, aerodynamically optimised for application, dynamically balanced.
- **Drive**
  Energy-efficient, speed-controllable EC external rotor motor with IP54 protection. Maintenance-free and ball bearing mounted.
- **Motor protection**
  Integrated electronic temperature monitoring system for EC motor and electronics.
- **Electrical connection**
  Standard terminal box (protection category IP54) mounted to external cable, or on outside of duct for HRF.
- **Protection grille**
  Made of powder-coated steel for HQ and HW in accordance with DIN EN ISO 13857.
- **Power control**
  All types are continuously controllable via internal (delivery) or external speed potentiometer. Control is also possible via three level switch or continuously variable via universal control system or electronic differential pressure/temperature controller. See type table.
  Performance levels are shown on the performance curve as examples.
- **Installation**
  Installation possible in any position.
- **Noise levels**
  The total level and range for the sound power level and sound pressure level at 4 m free field conditions are specified above the performance diagram for the average operating point on the inlet/outlet side. The total sound pressure level at 4 m (free field conditions) is also specified in the type table, as well as the table below the performance diagram for various voltages. See page 14 f for noise emissions and room acoustics.

Speed	Flow rate-free-blowing	Power consump.	Current consum.	Sound pressure	Wiring diagram	Max. air flow temperature	Wgt net	Design type					
								HQ EC incl. protection grille	Ref. no.	**HW EC** incl. protection grille	Ref. no.	**HRF EC**	Ref. no.
min $^{-1}$	V̇ m³/h	kW	A	dB(A) at 4m	No.	+°C	ca. kg						
Alternating current, 1~, 230 Volt, 50/60 Hz, EC motor, protection category IP54													
2710	1970	0.13	1.03	58	1252	40	6.0	**HQW EC 250 A**	04822	**HWW EC 250 A**	04823	**HRFW EC 250 A**	04824

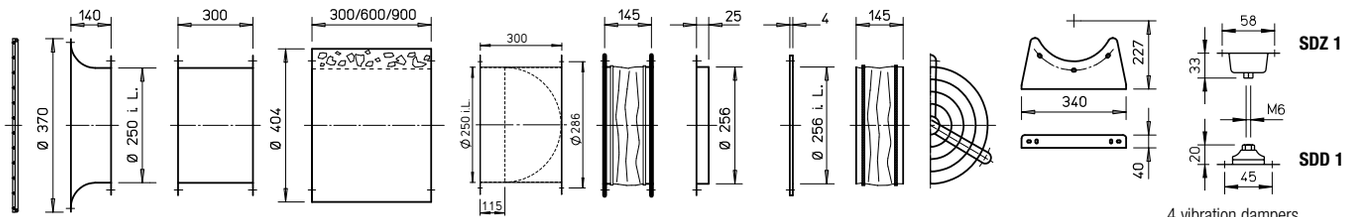
Performance curves HQ EC / HW EC / HRF EC 250 A

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	78	58	71	74	71	68	63	50
$L_{pA,\ 4m}$	Air noise	dB(A)	58	38	51	54	51	48	43	30



Voltage V	**n** min⁻¹	**Free-blow. A** m³/h	**P_{el}** W	**I_{Motor}** A	**$L_{pA,\ 4m}$**
10	2710	1970	125	1.00	58
8	2520	1790	92	0.80	56
6	2150	1510	57	0.51	52
4	1680	1170	30	0.26	46

Accessories for HRF EC 250 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 250** No. 01414

Extension duct **VR 250** No. 01402

Duct silencer **RSD 250/..**

Duct shutter, automatic **RVS 250** [a] No. 02592

Flanged flexible connector **STS 250** No. 01220

Counter flange **FR 250** No. 01203

Flat flange **FF 250** No. 04941

Flexible connecting sleeve **FM 250** No. 01672

Protection grille duct side **SG 250** No. 01236

2 mounting brackets **1 x MK 250** (= 2 pcs) No. 01447

4 vibration dampers for tensile load **1 x SDZ 1** (= 4 pc) No. 01454
4 vibration dampers for compression load **1 x SDD 1** (= 4 Pc) No. 01452

[a] Shutter, motorised see Accessories product pages.

References	**Page**
Techn. description	190
Selection table	191
Planning information	14 ff.

Special design
Different voltage, air flow direction, higher air flow temperature, acid protection upon request.

The technical information on p.19 ff. must be observed.

Other accessories	**Page**
Filters and silencers	483 ff.
Shutters and ventilation grilles	563 ff.
Universal control system, electronic controller, Speed potentiometer	615 ff.
Five-step speed switch	610

Universal control system		Speed potentiometer flush-mounted		Speed potentiometer surface-mounted		Three level speed switch flush-mounted		Three level speed switch surface-mounted		Electronic pressure difference controller/ actuator		Electronic temperature controller/actuator	
Type	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.
EUR EC[1]	01347	**PU 10**[1]	01734	**PA 10**[1]	01735	**SU-3 10**[1]	04266	**SA-3 10**[1]	04267	**EDR**[1]	01437	**ETR**[1]	01438

[1] Multiple EC fans can normally be connected, see Accessories.