HQ EC 400



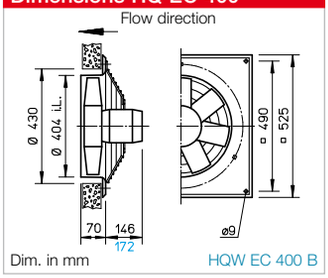
HW EC 400



HRF EC 400

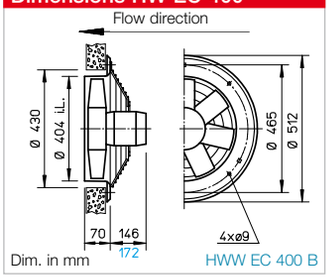


Dimensions HQ EC 400



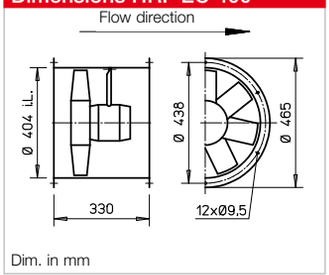
Dim. in mm HQW EC 400 B

Dimensions HW EC 400



Dim. in mm HWW EC 400 B

Dimensions HRF EC 400



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 for HQ and HW types (version “A”) or on back of motor (version “B”). Mounted on outside of duct for HRF types.

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.

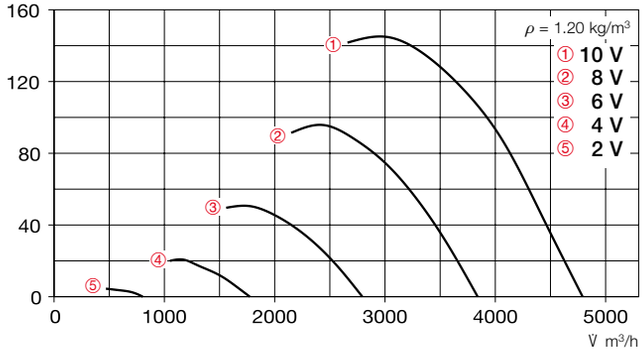
Installation
Installation possible in any position.

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) in 4m	No.	+°C	ca. kg						
Alternating current, 1~, 230 Volt, 50/60 Hz, EC motor, protection category IP54													
1700	4790	0.32	1.40	59	1047	40	13.4	**HQW EC 400 A**	04922	**HWW EC 400 A**	04923	**HRFW EC 400 A**	04924
2150	5850	0.65	3.10	65	1201	40	15.4	**HQW EC 400 B**	04925	**HWW EC 400 B**	04926	**HRFW EC 400 B**	04927

Performance curves HQ EC / HW EC / HRF EC 400 A

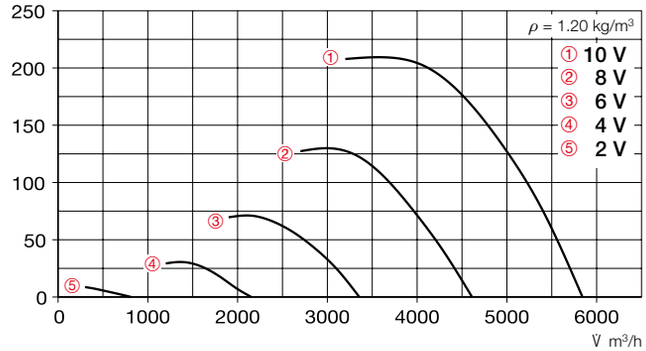
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	79	52	72	74	73	71	65	57
$L_{PA,\ 4m}$	Air noise	dB(A)	59	32	53	54	53	51	45	37



Voltage V	n min⁻¹	Free-blow. A m³/h	P_{el} W	I_{Motor} A	$L_{PA,\ 4m}$
10	1700	4790	320	1.40	59
8	1380	3840	170	0.75	55
6	1000	2800	75	0.35	48
4	650	1780	30	0.20	39

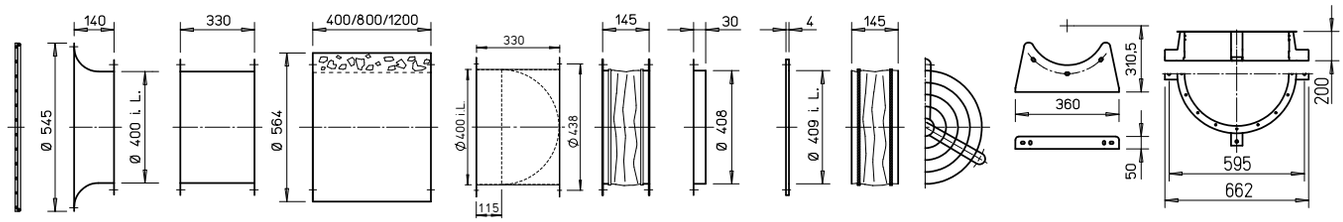
Performance curves HQ EC / HW EC / HRF EC 400 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	85	57	75	80	80	78	71	63
$L_{PA,\ 4m}$	Air noise	dB(A)	65	37	55	60	60	58	51	43



Voltage V	n min⁻¹	Free-blow. A m³/h	P_{el} W	I_{Motor} A	$L_{PA,\ 4m}$
10	2150	5850	650	3.10	65
8	1700	4630	340	1.60	60
6	1250	3370	150	0.71	53
4	800	2120	60	0.35	44

Accessories for HRF EC 400 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 400** No. 01418

Extension duct **VR 400** No. 01406

Duct silencer- **RSD 400/..**

Duct shutter, automatic **RVS 400** [a] No. 02596

Flanged flexible connector **STS 400** No. 01223

Counter flange **FR 400** No. 01206

Flat flange **FF 400** No. 04945

Flexible connecting sleeve **FM 400** No. 01676

Protection grille duct side **SG 400** No. 01239

Mounting brackets **MK 400** (1 Set = 2 pcs) No. 01449

Mounting ring for vertical attachment **MRV 400** No. 01760

[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
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.