HQ EC 355



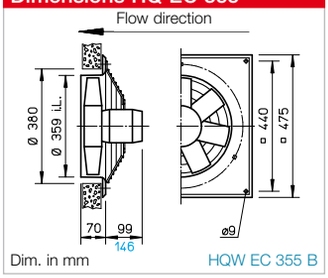
HW EC 355



HRF EC 355

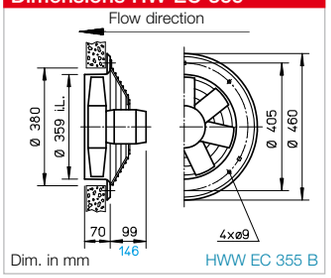


Dimensions HQ EC 355



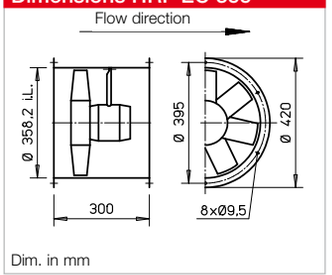
Dim. in mm HQW EC 355 B

Dimensions HW EC 355



Dim. in mm HWW EC 355 B

Dimensions HRF EC 355



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-saving, speed-controllable external rotor EC motor in protection category IP54 with the highest level of efficiency. Maintenance-free and radio interference-free, excellent electromagnetic compatibility (EMC), 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.

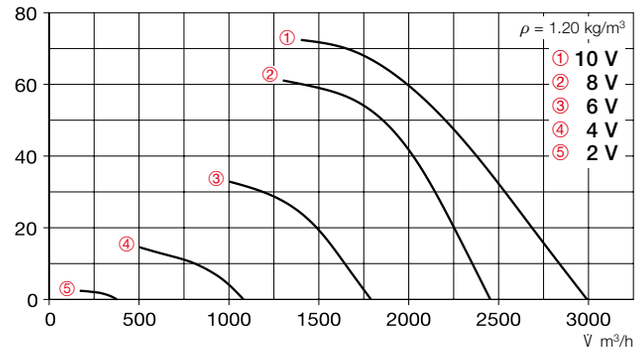
Installation
Installation possible in any position.

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) at 4m	No.	+°C	ca. kg						
Alternating current, 1~, 230 Volt, 50/60 Hz, EC motor, protection category IP54													
1460	3000	0.12	1.10	49	1252	40	8.5	**HQW EC 355 A**	04916	**HWW EC 355 A**	04917	**HRFW EC 355 A**	04918
1980	4200	0.32	1.40	59	1047	40	12.0	**HQW EC 355 B**	04919	**HWW EC 355 B**	04920	**HRFW EC 355 B**	04921

Performance curves HQ EC / HW EC / HRF EC 355 A

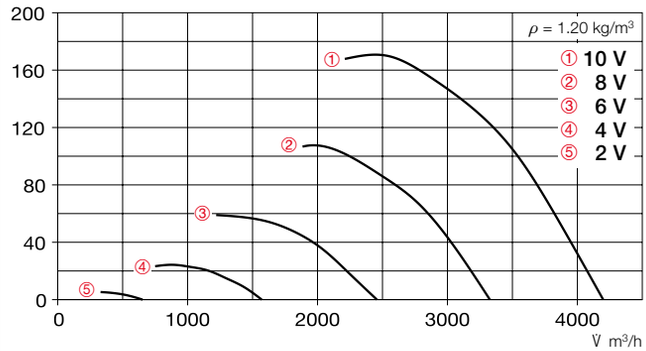
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	69	46	57	62	62	64	64	46
$L_{PA,\ 4m}$	Air noise	dB(A)	49	26	37	42	42	44	44	26



Voltage V	n min⁻¹	Free-blow. A m³/h	P_{el} W	I_{Motor} A	$L_{PA,\ 4m}$
10	1460	3000	115	0.94	49
8	1200	2450	80	0.70	48
6	880	1790	35	0.30	39
4	560	1080	10	0.15	28

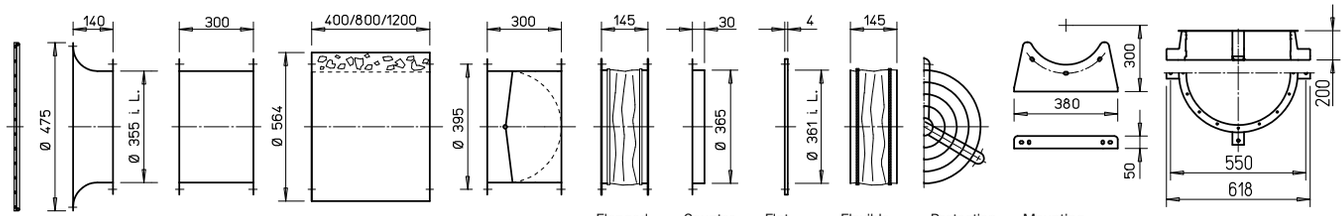
Performance curves HQ EC / HW EC / HRF EC 355 B

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	79	52	73	73	73	73	67	59
$L_{PA,\ 4m}$	Air noise	dB(A)	59	32	53	53	53	53	47	39



Voltage V	n min⁻¹	Free-blow. A m³/h	P_{el} W	I_{Motor} A	$L_{PA,\ 4m}$
10	1980	4200	316	1.4	59
8	1600	3330	175	0.79	54
6	1170	2460	80	0.37	48
4	760	1570	30	0.20	39

Accessories for HRF EC 355 Description see page 276 ff.



Intake nozzle with prot. grille **ASD-SGD 355** No. 01417

Extension duct **VR 355** No. 01405

Duct silencer- **RSD 355/..**

Duct shutter, automatic **RVS 355** a) No. 02595

Flanged flexible connector **STS 355** No. 01222

Counter flange **FR 355** No. 01205

Flat flange **FF 355** No. 04944

Flexible connecting sleeve **FM 355** No. 01675

Protection grille duct side **SG 355** No. 01238

Mounting brackets **MK 355** (1 Set = 2 pcs) No. 01448

Mounting ring for vertical attachment **MRV 355** No. 01759

a) Shutter, motorised see Accessories product pages.

References	Page
Techn. description	180
Selection table	181
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	481 ff.
Shutters and ventilation grilles	561 ff.
Universal control system, electronic controller, Speed potentiometer	613 ff.

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.