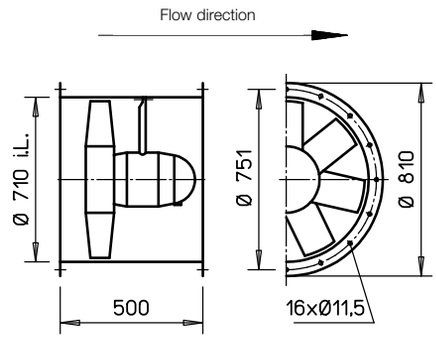
HRF EC 710



Dimensions HRF EC 710



Dim. in mm

Description
High performance axial EC fan in pipe sleeve, with double-sided flanges for direct intermediate setting in pipelines. Flange in accordance with DIN 24155, p. 3.

Casing
Made of galvanised steel sheet, additional terminal box (IP54) on outside of duct.

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) on back of motor, additional terminal box on outside of duct.

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.

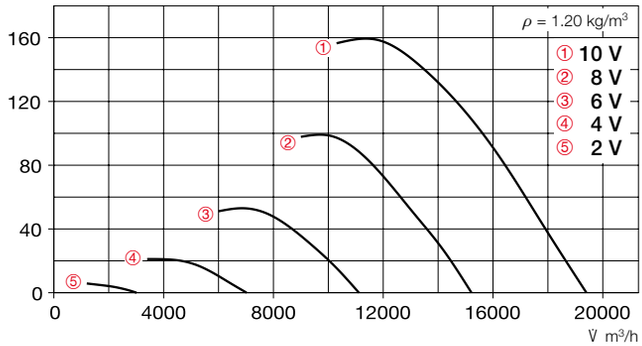
Installation
Installation possible in any position.

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 HRF EC	Ref. no.
min $^{-1}$	V̇ m³/h	kW	A	dB(A) at 4m	No.	+°C	ca. kg		
Three-phase current, 3~, 400 Volt, 50/60 Hz, EC motor, protection category IP54									
1100	19400	1.32	2.10	61	1203	40	40	**HRFD EC 710**	04876

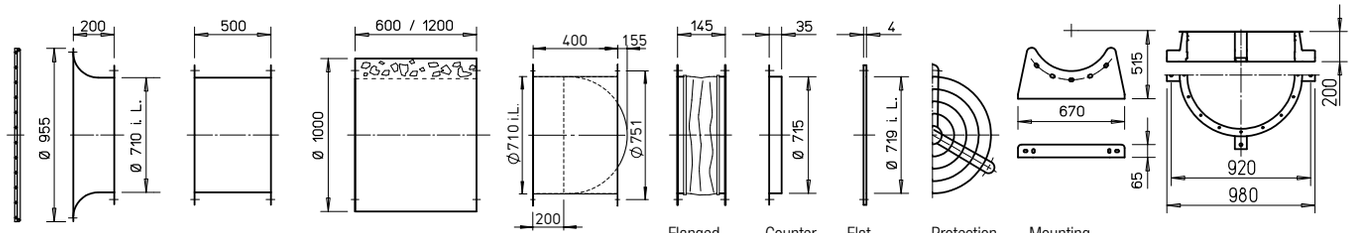
Performance curves HRF EC 710

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	81	63	72	76	75	74	69	60
$L_{PA,\ 4m}$	Air noise	dB(A)	61	43	52	56	55	54	49	40



Voltage V	**n** min⁻¹	**Free-blow. A** m³/h	**P_{el}** W	**I_{Motor}** A	**$L_{PA,\ 4m}$**
10	1100	19400	1315	2.10	61
8	885	15220	680	1.20	56
6	650	11120	280	0.66	50
4	415	7020	90	0.35	41

Accessories for HRF EC 710 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 710** No. 01423

Extension duct **VR 710** No. 01411

Duct silencer **RSD 710/..**

Duct shutter, automatic **RVS 710** [a] No. 02601

Flanged flexible connector **STS 710** No. 01229

Counter flange **FR 710** No. 01212

Flat flange **FF 710** No. 04950

Protection grille duct side **SG 710** No. 01244

Mounting brackets **MK 710** (1 Set = 2 pcs) No. 01372

Mounting ring for vertical attachment **MRV 710** No. 01743

[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.