

HQ 355



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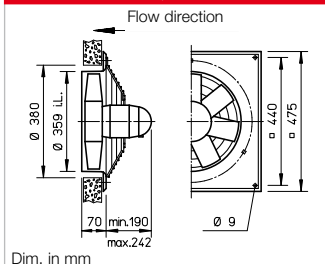
HRF 355



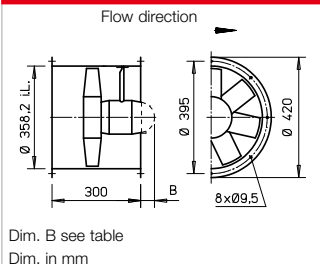
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Dimensions HQ 355



Dimensions HRF 355



Description for all types

■ Casing

Made of galvanised steel sheet, types HQ and HW have additional two layer lacquer coating in papyrus white. Explosion-proof types have no lacquer coating.

■ Impeller

High performance characteristics with profiled blades made of plastic, dynamically balanced. Different for explosion-proof types.

■ Drive

Closed die-cast aluminium casing. Prot. cat. IP55. Ball bearing mounted. Maintenance-free and radio interference-free. Winding with moisture proof coating. See type table for max. air flow temperature. Different for explosion-proof types.

■ Motor protection

All types (except for 3~ explosion-proof, see page 190) are equipped with thermal contacts or PTC thermistor. These should be wired with the motor protection circuit breaker (see type table) for effective motor protection. For 1~ explosion-proof fans, the thermal contacts are wired in series with the winding, automatic deactivation and reactivation after cool down.

■ Electrical connection

Standard terminal box (IP55) on back of motor. Additionally on outside of duct for HRF types. Different for explosion-proof types.

■ Protection grille

Made of powder-coated steel for HQ and HW (HQ Ex galvanised). In accordance with DIN EN ISO 13857.

■ Power control

The voltage-controllable types are identified in the "Current consumption max. with control" column with a value which must be observed when determining the controller (see speed controller column). Possible assignments of frequency inverters to fans are shown in the type table. The flow rates are shown in the performance diagram.

■ Reverse operation

All types are reversible using a reverser switch. Performance reduction of approx. 1/3 in abnormal flow direction.

■ Installation

Installation possible in any position, but be aware of any condensate drain holes depending on usage.

■ Dimensions

Pole-changeable and explosion-proof types may differ from the above information.

■ Noise levels

See performance diagram. The sound power and sound pressure at 4 m distance under free field conditions are specified for the average operating point on the inlet/outlet side. See page 14 f for noise emissions and room acoustics. Different for explosion-proof types.

Speed	Flow rate free-blowing	Power consump.	Current consump.		Wiring diagram	Max. air flow temp.		Weight net aprx.	Design type					
			at rated voltage	max. with control		at rated voltage	with control		HQ incl. protection grille	Ref. no.	HRF	Ref. no.	Dim. B Motor protrusion in mm	
min ⁻¹	V m ³ /h	W	A	A	No.	+ °C	+ °C	kg						
Single-phase alternating current, 230 Volt, 50 Hz, Capacitor motor, protection category IP55														
960	1940	75	0.47	0.47	475 ¹⁾	60	40	12	HQW 355/6	01107	HRFW 355/6 ¹⁾	00204	—	
1320	2875	130	0.60	0.65	1638	60	40	11	HQW 355/4	01108	HRFW 355/4	00205	—	
Three-phase current, 400 Volt, 50 Hz, Squirrel-cage rotor, protection category IP55														
960	1970	70	0.27	0.29	469	60	40	9.5	HQD 355/6	01120	—		—	
1360	2920	130	0.30	0.30	469	60	40	14.0	HQD 355/4	01121	HRFD 355/4	00226	—	
2890	5980	1100	1.10	—	776	60	—	18.0	HQD 355/2	01122	HRFD 355/2	00227	50	
Pole-changeable, 2 speeds, three-phase current, Dahlander winding, 400 Volt, 50 Hz, protection category IP55														
700/1390	1430/2950	45/145	0.14/0.35		472	60	—	11.0	HQD 355/8/4	01132	HRFD 355/8/4	00394	—	
1430/2840	3050/6150	250/950*	0.63/2.30*		472	40	—	16.0	HQD 355/4/2	01134	HRFD 355/4/2	00396	35	
 Ex	Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex d, alternating current 230 Volt, 50 Hz, protection category IP55													
1370	2940	180*	1.25*		757	40	—	18.0	HQW 355/4 Ex	00444	HRFW 355/4 Ex	00443	30	
 Ex	Explosion-proof, II 2G Ex h IIB + H ₂ T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55													
925	2010	250*	0.80*		470	40	—	25.0	HQD 355/6 Ex	01101	—		—	
1355	3060	120*	0.37*		470	40	—	18.0	HQD 355/4 Ex	01150	HRFD 355/4 Ex	00476	—	
2900	5010	550*	1.31*		470	40	—	12.5	HQD 355/2 Ex	01151	HRFD 355/2 Ex	00477	—	

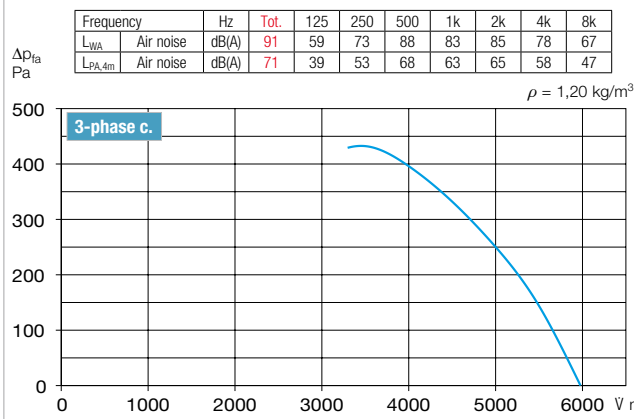
* Motor ratings, Ex see information on page 20.

¹⁾ Type HRFW: Connection according to wiring diagram no. 965.

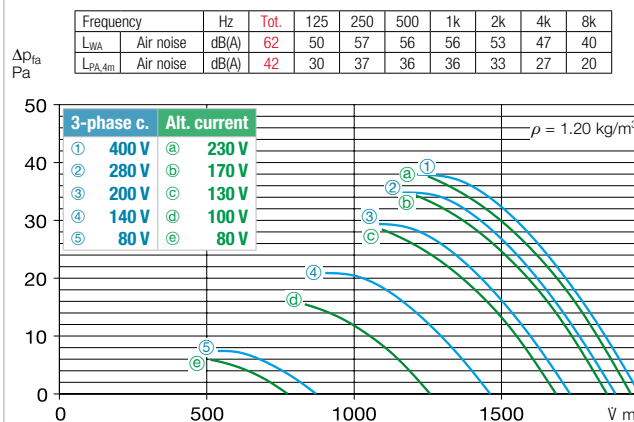
²⁾ Incl. motor protection circuit breaker.

³⁾ Incl. speed pole changing switch.

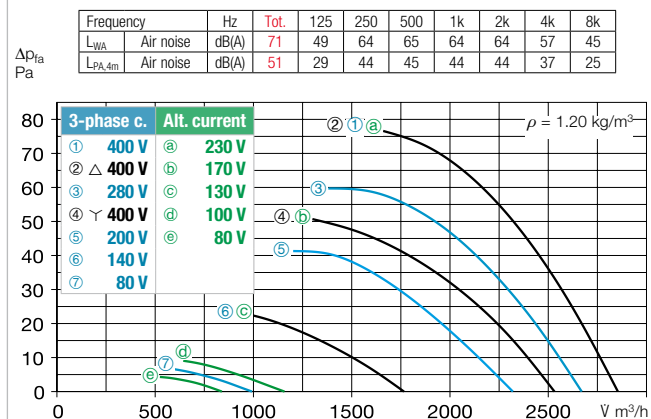
Performance curves 355/2



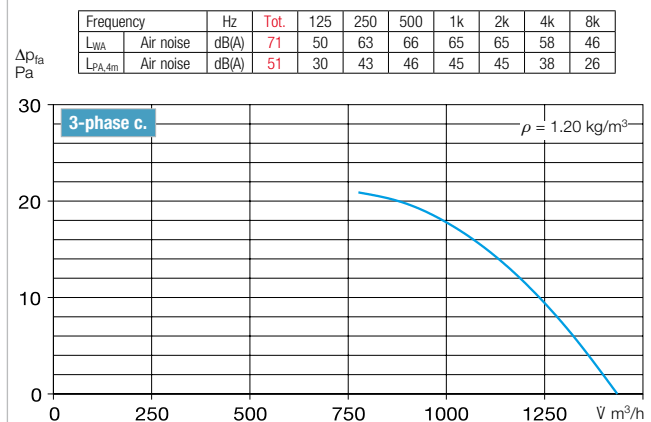
Performance curves 355/6



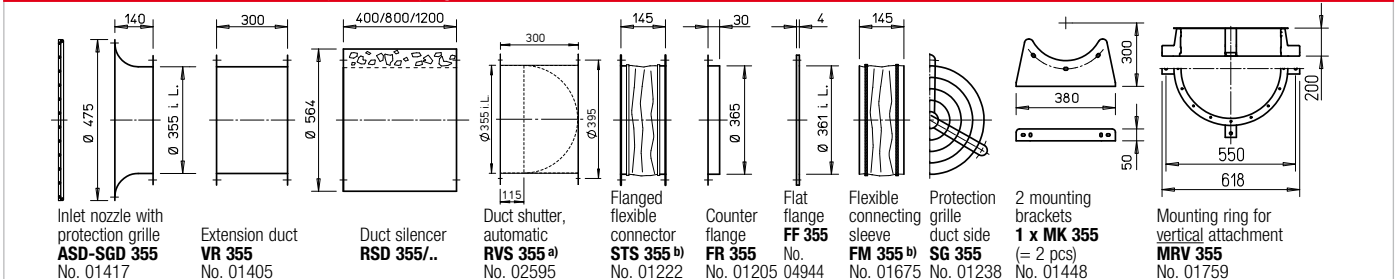
Performance curves 355/4



Performance curve 355/8



Accessories for HRF 355 Description see page 278 ff.



a) Shutter, motorised see Accessories product pages.

b) See below for types for explosion-proof fans.

Frequency inverter with integrated sine filter		Transformer speed controller 5-step, pole changing switch		Electronic speed controller, continuously variable flush-m./surface-m.		Motor protection circuit breaker		Reverser switch	
Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
—	—	MWS 1.5 ²⁾	01947	ESU 1/ESA 1	00236/00238	MW	01579	WS	01271
—	—	MWS 1.5 ²⁾	01947	ESU 1/ESA 1	00236/00238	MW	01579	WS	01271
FU-BS 2.5 ²⁾	05459	RDS 1 ²⁾	01314	—	—	MD	05849	WS	01271
FU-BS 2.5 ²⁾	05459	RDS 1 ²⁾	01314	—	—	MD	05849	WS	01271
FU-BS 2.5 ²⁾	05459	—	—	—	—	MSA	01289	WS	01271
Pole changing switch									
—	—	PDA 12 ⁴⁾	05081	—	—	M 3 ³⁾	01293	PWDA	01282
—	—	PDA 12 ⁴⁾	05081	—	—	MSA	01289	PWDA	01282
—	—	not permitted	not permitted	—	—	—	—	—	—
—	—	not permitted	not permitted	—	—	—	—	—	—
—	—	not permitted	not permitted	—	—	—	—	—	—
—	—	not permitted	not permitted	—	—	—	—	—	—

⁴⁾ Flush-m. version see Switch product page.

Other accessories Page

- ^{b)} Access. for expl.-proof fans
- Flanged flexible connector**
STS 355 Ex Ref. no. 02504
- Flexible connecting sleeve**
FM 355 Ex Ref. no. 01691
- Extension sleeve for HS**
VH 355 Ref. no. 01345
Cylindrical pipe section, galvanised steel, 15 cm long.
- Filter and silencers 483 ff.
- Shutters and ventilation grilles 563 ff.
- Speed controllers, controllers and switches 601 ff.