

HQ 560



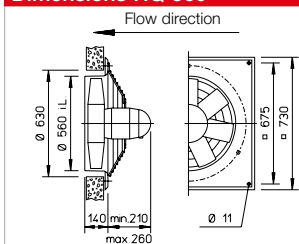
Also available in version:

HRF 560



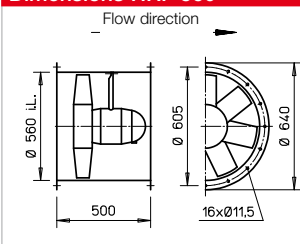
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Dimensions HQ 560



Dim. in mm

Dimensions HRF 560



Dim. in mm

Description for all types

■ Casing

Made of galvanised steel sheet. Type HQ has 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. Protection category 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 explosion-proof, see page 190) are equipped with thermal contacts. These should be wired with the motor protection circuit breaker (see type table) for effective motor protection.

■ 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 wire for HQ (Ex types 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 planned use of a frequency inverter without a sine filter should be indicated when placing the order. This requires a change of fan version and additional costs, if necessary. 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.

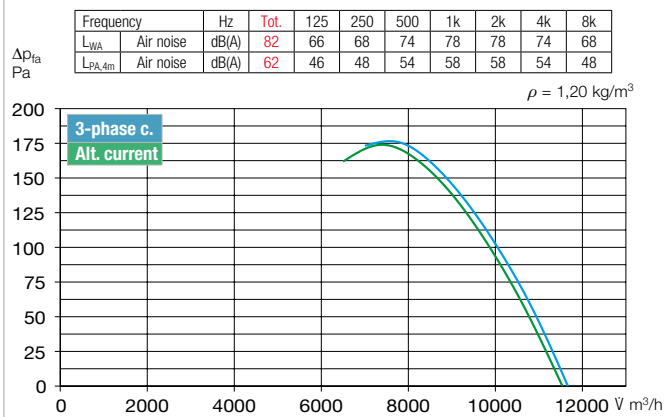
■ Noise levels

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.

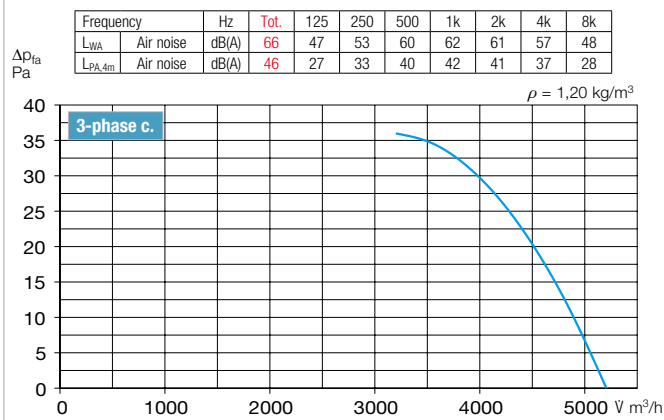
Speed	Flow rate free-blowing	Power consump.	Current consump.		Wiring dia- gram	Max. air flow temp.		Weight net aprx.	Design type		Frequency inverter with integrated sine filter	Transformer speed con- troller 5-step, pole chan- ging switch, speed ch., pole changing switch	
			at rated voltage	max. with control		at rated voltage	with control		HQ incl. prot. grille	Ref. no.		Ref. no.	Ref. no.
min ⁻¹	∇ m ³ /h	kW	A	A	No.	+ °C	+ °C	kg			Type	Ref. no.	Type
Single-phase alternating current, 230 Volt, 50 Hz, Capacitor motor, protection category IP55													
935	7700	0.27	0.27	—	1638	60	—	23.0	HQW 560/6	00385	HRFW 560/6	00380	—
1420	11550	1.10	6.00	—	1638	60	—	31.0	HQW 560/4	05054	HRFW 560/4	05055	—
Three-phase current, 400 Volt, 50 Hz, Squirrel-cage rotor, protection category IP55													
885	7200	0.37	1.81	—	776	60	—	22.0	HQD 560/6	00386	HRFD 560/6	00381	FU-BS 5 ¹⁾ 05460
1440	11700	1.10	4.32	—	776	60	—	23.0	HQD 560/4	00387	HRFD 560/4	00382	FU-BS 2.5 ¹⁾ 05459
Pole-changeable, 2 speeds, three-phase current, Dahlander winding, 400 Volt, 50 Hz, protection category IP55													
645/1390	6400/11300	0.3/1.5	1.55/3.3	—	777	60	—	35.0	HQD 560/8/4	00388	HRFD 560/8/4	00383	—
Explosion-proof, II 2G Ex h IIB + H₂ T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55													
925	8090	0.25*	0.80*	—	470	40	—	23.0	HQD 560/6 Ex	00378	HRFD 560/6 Ex	00376	Not permitted
1445	12890	0.75*	3.20*	—	470	40	—	24.0	HQD 560/4 Ex	00379	HRFD 560/4 Ex	00377	Not permitted

* For Ex types: Motor ratings see information on page 20. ¹⁾ Incl. motor protection circuit breaker.

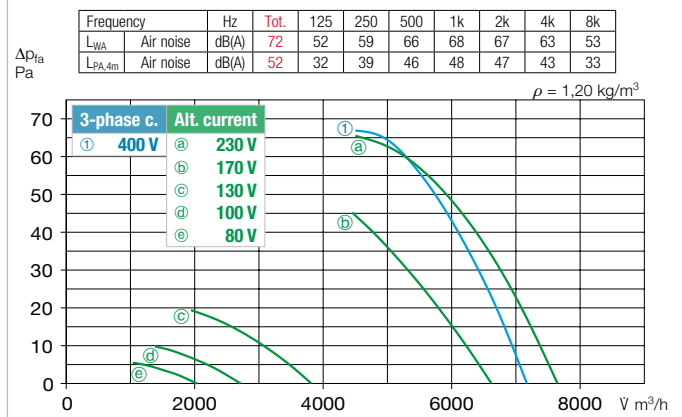
Performance curves 560/4



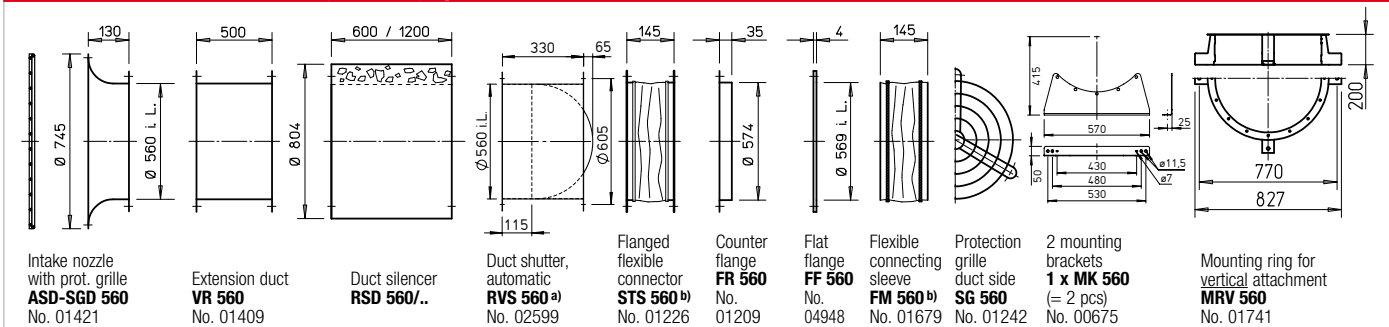
Performance curve 560/8



Performance curves 560/6



Accessories for HRF 560 Description see page 278 ff.



^{a)} Shutter, motorised see Accessories product pages.

^{b)} See below for types for explosion-proof fans.

Electronic speed controller, continuously variable flush-m./surface-m.		Motor protection circuit breaker for connecting built-in thermal contacts		Reverser switch	
Type	Ref. no.	Type	Ref. no.	Type	Ref. no.
—	—	MW	01579	WS	01271
—	—	MW	01579	WS	01271
—	—	—	—	—	—
—	—	MD	05849	WS	01271
—	—	M 3³⁾	01293	PWDA	01282
not permitted	—	—	—	—	—
not permitted	—	—	—	—	—

³⁾ Incl. speed pole changing switch.

Reference	Page
Techn. description	190
Selection table	191
Planning information	14 ff.
Special design	
Different voltage, protection category, air flow direction, higher air flow temperature, acid protection and impeller made of cast aluminium upon request.	
The technical information on p. 19 ff. must be observed.	

Other accessories	Page
^{b)} Access. for expl.-proof fans	
Flanged flexible connector STS 560 Ex Ref. no. 02508	
Silencers	496 ff.
Shutters and ventilation grilles	563 ff.
Speed controllers, controllers and switches	601 ff.
Flexible connecting sleeve FM 560 Ex Ref. no. 01695	