

HQ 630



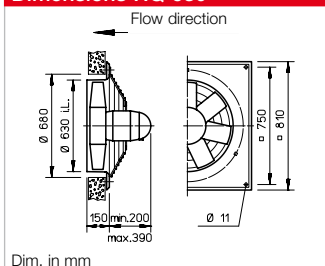
Also available in version:

HRF 630

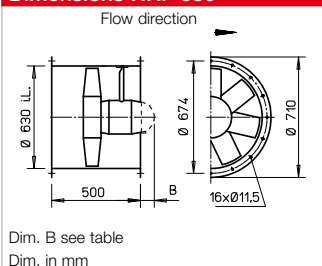


Also available in version:

Dimensions HQ 630



Dimensions HRF 630



Description for all types

■ Casing

Made of galvanised steel sheet.

■ 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 types, see page 190) are equipped with thermal contacts or PTC thermistor. These should be wired with the motor protection circuit breaker (see type tab-

le) for effective motor protection. Motors without thermal contacts must be protected by means of on-site a motor protection circuit breaker.

■ 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 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.

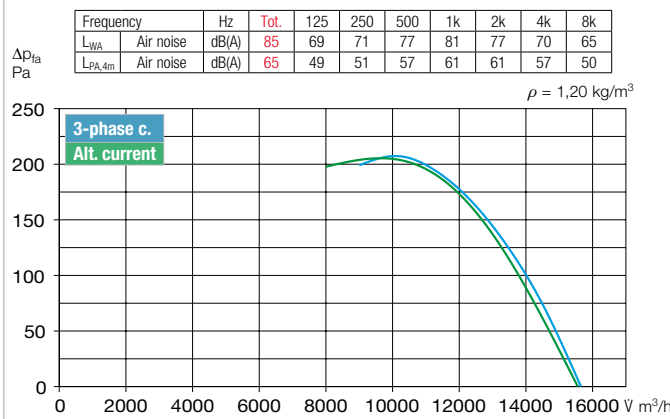
Reference	Page
Techn. description	190
Selection table	191
Planning information	14 ff.
Special design	
Different voltage, protection category, air flow direction, higher air flow temperature, acid protection and impeller in other materials upon request.	
The technical information on p. 19 ff. must be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

Speed	Flow rate free-blowing	Power consump.	Current consump.		Wiring diagram	Max. air flow temp.		Weight net appr.	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	kW	A	A	No.	+ °C	+ °C	kg					
Single-phase alternating current. 230 Volt, 50 Hz, Capacitor motor, protection category IP55													
950	10870	0.44	2.16	3.20	475	60	40	28.0	HQW 630/6	05037	—	—	—
1420	15600	1.50*	8.20*	7.00	1638	60	—	31.0	HQW 630/4	05056	HRFW 630/4	05057	—
Three-phase current, 400 Volt, 50 Hz, Squirrel-cage rotor, protection category IP55													
708	7950	0.20	0.65	—	469	40	40	27.0	HQD 630/8	05029	—	—	—
960	10560	0.44	1.22	—	469	60	40	30.5	HQD 630/6	05027	HRFD 630/6	00244	—
1440	15700	1.50	5.73	—	776	60	—	47.0	HQD 630/4	05030	HRFD 630/4	00245	—
Ex Explosion-proof, II 2G Ex h IIB + H₂ T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55													
945	10480	0.55*	1.60*	—	470	40	—	30.0	HQD 630/6 Ex	05035	HRFD 630/6 Ex	00494	—
1440	17730	1.50*	3.40*	—	470	40	—	35.0	HQD 630/4 Ex	05036	HRFD 630/4 Ex	00495	—

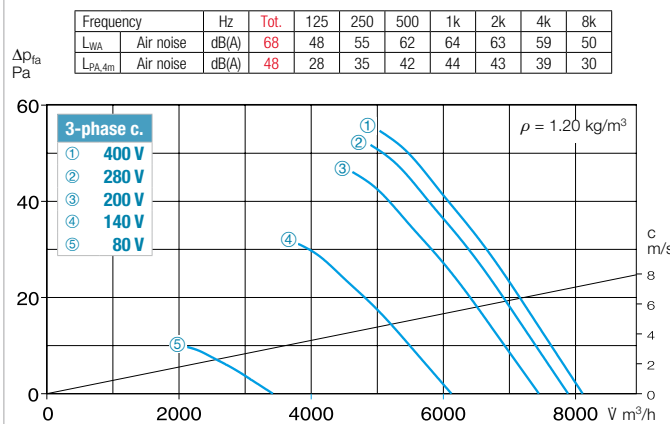
* For Ex types: Motor ratings see information on page 20. ¹⁾ Incl. motor protection circuit breaker.

²⁾ Flush-m. version see Switch product page.

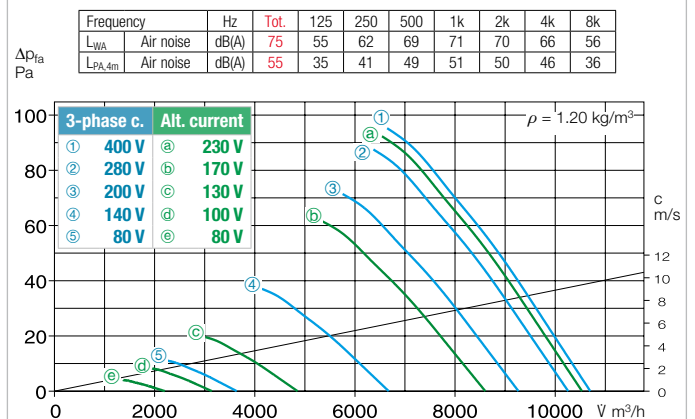
Performance curves 630/4



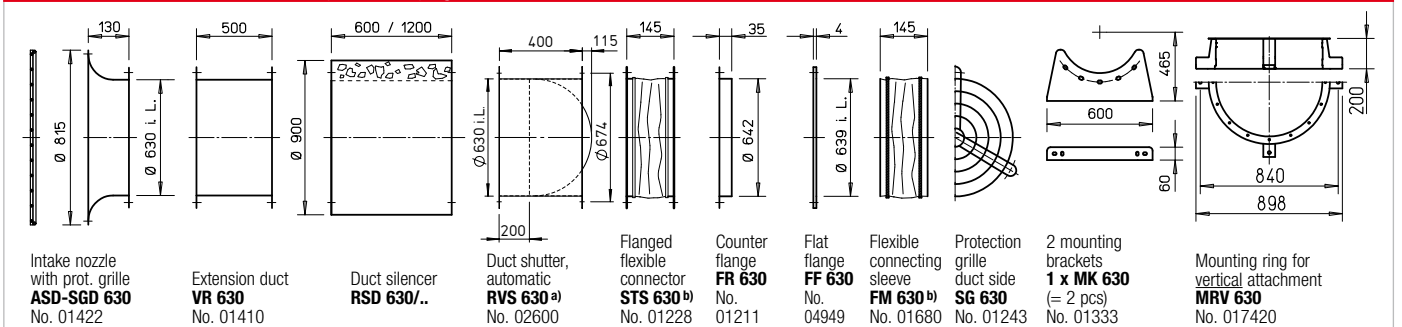
Performance curves 630/8



Performance curves 630/6



Accessories for HRF 630 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 3¹⁾	01948	—	—	MW	01579	WS	01271
—	—	—	—	—	—	MW	01579	WS	01271
FU-BS 2.5¹⁾	05459	RDS 2¹⁾	01315	ESD 5¹⁾	00501	MD	05849	WS	01271
FU-BS 2.5¹⁾	05459	RDS 2¹⁾	01315	ESD 5¹⁾	00501	MD	05849	WS	01271
FU-BS 8¹⁾	05461	—	—	—	—	—	—	WS	01271
—	—	not permitted	not permitted	not permitted	not permitted	—	—	—	—
—	—	not permitted	not permitted	not permitted	not permitted	—	—	—	—

¹⁾ Incl. speed pole changing switch.

Other accessories Page

^{b)} Access. for expl.-proof fans

Flanged flexible connector
STS 630 Ex Ref. no. 02509

Silencers 496 ff.

Shutters and ventilation grilles 563 ff.

Speed controllers, controllers and switches 601 ff.

Flexible connecting sleeve
FM 630 Ex Ref. no. 01696