HQ 630



Also available in version: Ex

HW 630

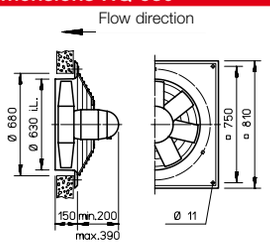


HRF 630



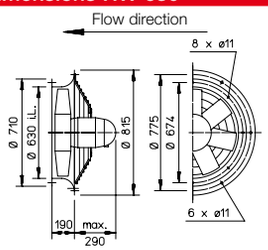
Also available in version: Ex

Dimensions HQ 630



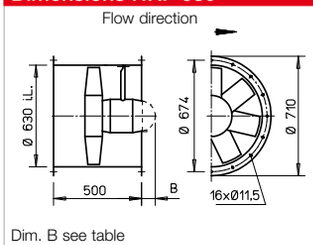
Dim. in mm

Dimensions HW 630



Dim. in mm

Dimensions HRF 630



Dim. B see table
Dim. in mm

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 ../8/4 and explosion-proof types, 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. 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.

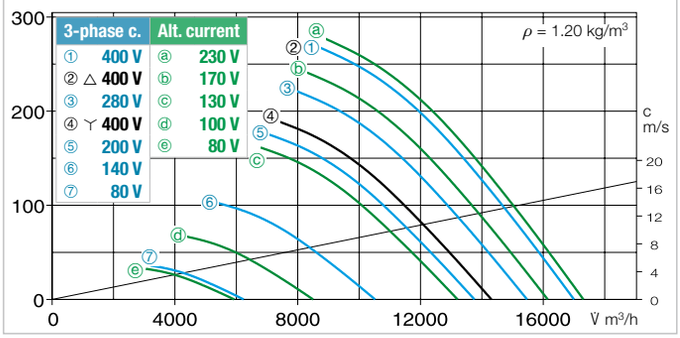
The technical information on p. 19 ff. must be observed.

Speed	Flow rate free-blowing	Power consump.	Current consump.		Wiring diagram	Max. air flow temp.		Weight net aprx.	Design type							
			at rated voltage	max. with control		at rated voltage	with control		HQ incl. protection grille	Ref. no.	HW incl. protection grille	Ref. no.	HRF	Ref. no.	Dim. B Motor protrusion in mm	
min⁻¹	V m³/h	W	A	A	No.	+ °C	+ °C	kg								
Single-phase alternating current.230 Volt, 50 Hz, Capacitor motor, protection category IP55																
950	10530	0.44	2.16	3.20	475	60	40	28.0	**HQW 630/6**	05037	—		—		—	
1325	16210	1.50*	8.40*	7.00	964	40	—	40.0	**HQW 630/4**	05056	—		**HRFW 630/4**	05057	30	
Three-phase current, 400 Volt, 50 Hz, Squirrel-cage rotor, protection category IP55																
710	7810	0.20	0.66	0.70	469	40	40	27.0	**HQD 630/8**	05029	—		—		—	
960	10560	0.44	1.22	—	469	60	40	30.5	**HQD 630/6**	05027	**HWD 630/6**	01032	**HRFD 630/6**	00244	—	
Two-speed, three-phase current, 400 V, 50 Hz, Y/Δ connection, protection category IP55																
1170/1390	14310/17000	0.90/1.57	2.3/3.8	—	520	40	—	37.5	**HQD 630/4/4**	05030	**HWD 630/4/4**	01033	**HRFD 630/4/4**	00245	—	
Pole-changeable, 2 speeds, three-phase current, Dahlander winding, 400 Volt, 50 Hz, protection category IP55																
440/935	5290/10470	0.14/0.43	0.60/1.13		472	60	—	41.0	**HQD 630/12/6**	05031	—		**HRFD 630/12/6**	00410	—	
690/1400	7990/15990	0.37/1.50*	1.33/3.70*		471	40	—	40.5	**HQD 630/8/4**	05032	—		**HRFD 630/8/4**	00411	—	
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**																
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.

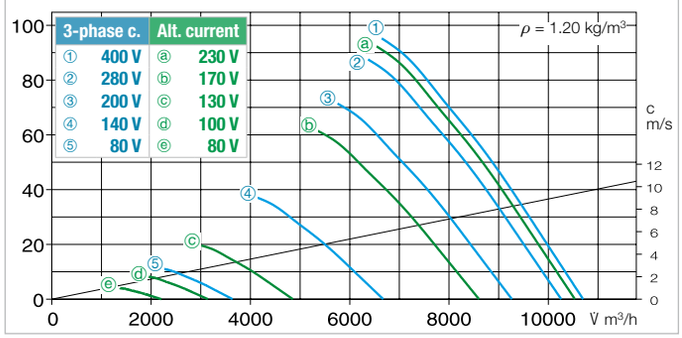
Performance curves 630/4

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	85	69	71	77	81	77	70	65
$L_{PA,4m}$	Air noise	dB(A)	65	49	51	57	61	61	57	50



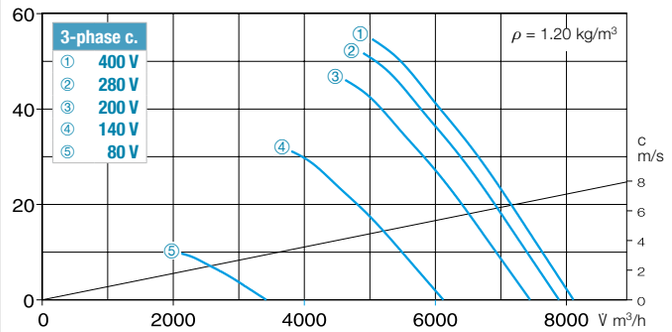
Performance curves 630/6

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	75	55	62	69	71	70	66	56
$L_{PA,4m}$	Air noise	dB(A)	55	35	41	49	51	50	46	36



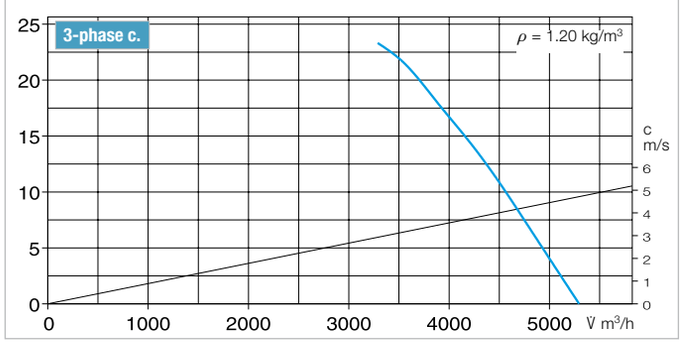
Performance curves 630/8

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	68	48	55	62	64	63	59	50
$L_{PA,4m}$	Air noise	dB(A)	48	28	35	42	44	43	39	30

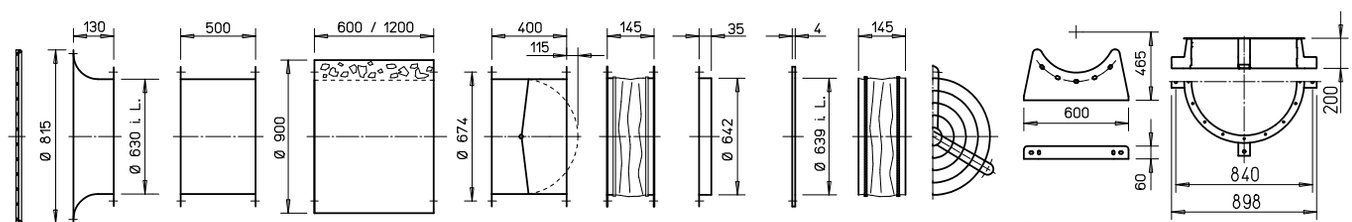


Performance curve 630/12

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	57	38	46	52	53	51	45	34
$L_{PA,4m}$	Air noise	dB(A)	37	18	26	32	33	31	25	14



Accessories for HRF 630 Description see page 280 ff.



Intake nozzle with prot. grille **ASD-SGD 630** No. 01422

Extension duct **VR 630** No. 01410

Duct silencer **RSD 630/..**

Duct shutter, automatic **RVS 630** [a] No. 02600

Flanged flexible connector **STS 630** [b] No. 01228

Counter flange **FR 630** No. 01211

Flat flange **FF 630** No. 04949

Flexible connecting sleeve **FM 630** [b] No. 01680

Protection grille duct side **SG 630** No. 01243

2 mounting brackets **1 x MK 630** (= 2 pcs) No. 01333

Mounting ring for vertical attachment **MRV 630** No. 017420

[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 for connecting built-in thermal contacts		Reverser switch	
	Type	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.	**Type**	Ref. no.
	—		**MWS 3** [1]	01948	**ESU 5 / ESA 5**	01296/01299	**MW**	01579	**WS**	01271
	—		**MWS 7.5** [1]	01950	—		**MW**	01579	**WS**	01271
	FU-BS 2.5 [1]	05459	**RDS 2** [1]	01315	**ESD 5** [1]	00501	**MD**	05849	**WS**	01271
	FU-BS 2.5 [1]	05459	**RDS 2** [1]	01315	**ESD 5** [1]	00501	**MD**	05849	**WS**	01271
	FU-BS 5.0 [1]	05460	**RDS 4** [1]	01316	**ESD 5** [1]	00501	**M 4** [3]	01571	**WS**	01271
			Pole changing switch							
	—		**PDA 12** [2]	05081	—		**M 3** [3]	01293	**PWDA**	01282
	—		**PDA 12** [2]	05081	—		**M 3** [3]	01293	**PWDA**	01282
	—		not permitted		not permitted		—		—	
	—		not permitted		not permitted		—		—	

[3] Incl. speed pole changing switch.

Other accessories **Page**

[b] **Access. for expl.-proof fans**

Flanged flexible connector STS 630 Ex Ref. no. 02509

Silencers 498 ff.
Shutters and ventilation grilles 565 ff.
Speed controllers, controllers and switches 603 ff.

Flexible connecting sleeve FM 630 Ex Ref. no. 01696