



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. Protection category IP55 or IP54. 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) are equipped 180th thermal contacts. These should be wired with the motor protection circuit breaker (see type table) for effective motor protection. For types H.W 250/6, H.W 250/4 and all 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 (IP54/55) 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/HW (HQ Ex galvanised), and plastic for HS. 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.

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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.	HW incl. protection grille	Ref. no.	HS incl. protection grille	Ref. no.	HRF	Ref. no.
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 IP54/55																
930	660	35	0.20	0.22	317	60	40	6.5	HQW 250/6	01102	—	—	HSW 250/6	00139	—	—
1300	930	36	0.15	0.15	439 ¹⁾	60	40	7.5	HQW 250/4 ¹⁾	01103	HW 250/4 ¹⁾	01001	HSW 250/4 ¹⁾	00140	HRFW 250/4 ¹⁾²⁾	00200
2710	2070	187	0.81	0.9	317 ¹⁾	60	40	6.5	HQW 250/2	01104	HW 250/2	01002	HSW 250/2	00141	HRFW 250/2 ³⁾	00201
Three-phase current, 400 Volt, 50 Hz, Squirrel-cage rotor, protection category IP55																
980	700	61	0.27	0.33	469	60	40	6.5	HQD 250/6	01114	—	—	—	—	—	—
1390	950	55	0.15	0.15	469	60	40	6.5	HQD 250/4 ¹⁾	01115	HWD 250/4 ¹⁾	01016	HSD 250/4 ¹⁾	00155	HRFD 250/4 ¹⁾	00220
2550	2000	169	0.31	0.33	469	60	40	6.5	HQD 250/2	01116	HWD 250/2	01017	—	—	HRFD 250/2	00221
Pole-changeable, 2 speeds, three-phase current, Dahlander winding, 400 Volt, 50 Hz, protection category IP55																
1430/2770	1030/2110	58/212	0.16/0.43	—	472	60	—	8.5	HQD 250/4/2	01128	—	—	—	—	HRFD 250/4/2	00390
Ex Ex Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex d, alternating current 230 Volt, 50 Hz, protection category IP55																
1400	1030	60*	0.70*	—	757	40	—	12	HQW 250/4 Ex	00438	—	—	—	—	HRFW 250/4 Ex	00437
2690	1950	180*	1.23*	—	757	40	—	13	HQW 250/2 Ex	01094	—	—	—	—	HRFW 250/2 Ex	01095
Ex Ex Explosion-proof, II 2G Ex h IIB + H₂ T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55																
1350	1070	120*	0.37*	—	470	40	—	12	HQD 250/4 Ex	01144	—	—	—	—	HRFD 250/4 Ex	00470
2800	2070	250*	0.75*	—	470	40	—	11	HQD 250/2 Ex	01145	—	—	—	—	HRFD 250/2 Ex	00471

* Motor ratings, Ex see information on page 20.

¹⁾ Special design not possible. ²⁾ Type HRFW../4: Connection according to wiring diagram no. 962.

³⁾ Type HRFW../2: Connection according to wiring diagram no. 963.

