

- **Specification for all models**
- **Casing**
Manufactured in galvanised sheet steel. Model HQ and HW have an additional two-layer finishing in papyrus white. Ex-models without paint.
- **Impeller**
Highly efficient, profiled blade impeller, dynamically balanced and manufactured from impact resistant polymers. Suitable for -30 to +60 °C. Deviation for ex-models.
- **Motor**
Totally enclosed motor with a die-cast aluminium casing, protected to IP 55. Ball bearing mounted. Maintenance-free and interference-free. Humidity protection of windings. For maximum air flow temp. see table below. Deviation for ex-models.

- **Motor protection**
All models (3~ explosion proof excluded) have thermal contacts as standard which must be connected to a motor protection unit (see below). The models H..W 315/6 and all 1 ph. ex-proof fans have automatic resetting thermal contacts wired in series with the motor windings.
- **Electrical connection**
Terminal box (IP 55) mounted on rear of motor as standard. Also on outside of piping for HRF. Deviation for ex-models.
- **Guard**
Powder-coated steel wire for HQ and HW (HQ ex-models galvanised), polymer for HS according to DIN EN ISO 13857.

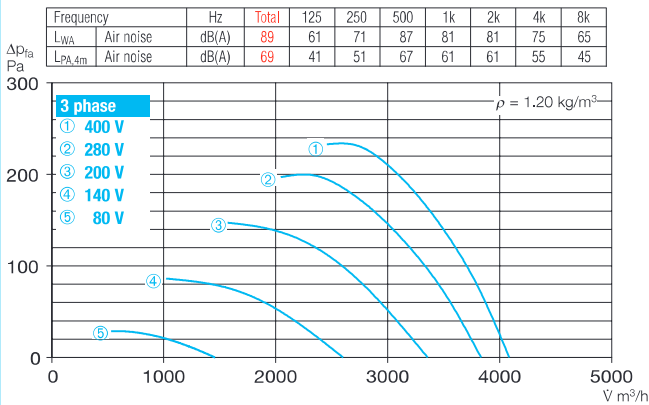
- **Speed control**
For all speed controllable models the current are identified with a value in the "speed controlled" column of the table below which must be used when selecting a controller. Possible allocations of frequency inverters are specified in the table below. The planned use of a frequency inverter without Sine filter must be stated when ordering. This requires a change of fan design and potential additional costs. The air flow rates are shown in the performance curves.
- **Reversed operation**
All models are reversible when wired to a reversing switch. For reverse air flow direction allow a loss in performance of approx. 1/3.

- **Installation**
Installation in any position. Ensure that the motor drainage holes face downwards.
- **Dimensions**
Pole-switch and explosion proof models may deviate from the information above.
- **Sound levels**
See characteristic curve. The sound power and sound pressure are specified at 4 m distances under free field conditions, for average operating point suction/pressure side. See page 10 on for sound emission and acoustics. Deviation for ex-models.

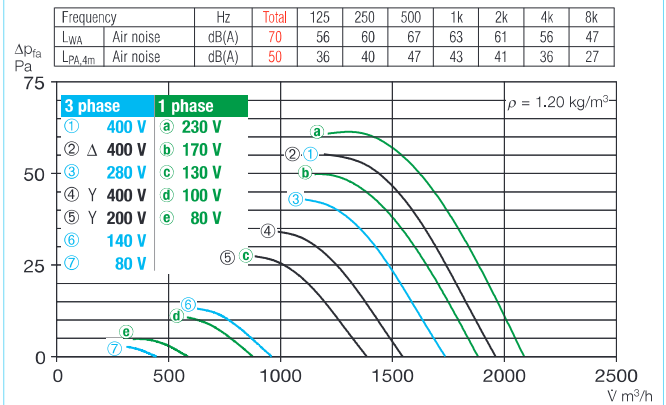
R.P.M.	Air flow volume (FID)	Motor power	Current* standard-supply	Current* max. controlled	Wiring diagram	max. air flow temp. standard supply	speed controlled	Weight net	Model							
									HQ incl. guard	Ref. no.	HW incl. guard	Ref. no.	HS incl. guard	Ref. no.	HRF	Ref. no.
min ⁻¹	∇ m ³ /h	W	A	A	No.	+°C	+°C	kg								
1 Phase motor, 230 Volt / 50 Hz, capacitor motor, protection to IP 55																
920	1330	33	0.25	0.35	317 ¹⁾	60	40	9.0	HQW 315/6	1105	—	—	HSW 315/6	0142	HRFW 315/6 ¹⁾	0202
1390	2080	104	0.45	0.47	475 ²⁾	60	40	8.0	HQW 315/4	1106	HWW 315/4	1004	HSW 315/4	0143	HRFW 315/4 ²⁾	0203
3 Phase motor, 400 Volt / 50 Hz, squirrel cage motor protection to IP 55																
950	1370	68	0.27	0.32	469	60	40	9.0	HQD 315/6	1117	—	—	—	—	—	—
1330	1960	84	0.24	0.26	469	60	40	9.0	HQD 315/4	1118	HWD 315/4	1019	HSD 315/4	0158	HRFD 315/4	0223
2760	4080	527	1.10	1.23	469	50	40	11.0	HQD 315/2	1119	HWD 315/2	1020	—	—	HRFD 315/2	0224
Two-speed, 3 ph., 400 V, 50 Hz, Y/Δ switch, protection to IP 55																
1040/1280	1530/1980	56/87	0.11/0.22	—	520	60	—	10.5	HQD 315/4/4	1460	—	—	—	—	HRFD 315/4/4	1462
2 speed motor, pole-switching, Dahlander windings, 400 Volt, 50 Hz, protection to IP 55																
720/1445	980/2060	49/115	0.20/0.43	—	472	60	—	12.0	HQD 315/8/4	1129	—	—	HSD 315/8/4	0346	HRFD 315/8/4	0391
1445/2845	2100/4190	106/558	0.45/1.32	—	472	50	—	12.5	HQD 315/4/2	1131	—	—	HSD 315/4/2	0348	HRFD 315/4/2	0393
Explosion proof Ex d II B, 1 ph., 230 Volt, 50 Hz, protection to IP 55, temp. class T1-T3																
1370	2070	180*	1.25*	—	757	40	—	13.0	HQW 315/4 Ex	0442	—	—	—	—	HRFW 315/4 Ex	0439
Explosion proof Ex e II, 3 ph., 400 Volt, 50 Hz, protection to IP 55, temp. class T1-T3																
920	1400	250*	0.97*	—	470	40	—	23.0	HQD 315/6 Ex	1098	—	—	—	—	—	—
1350	2140	120*	0.37*	—	470	40	—	14.0	HQD 315/4 Ex	1147	—	—	—	—	HRFD 315/4 Ex	0473
2770	4130	550*	1.43*	—	470	40	—	16.5	HQD 315/2 Ex	1148	—	—	—	—	HRFD 315/2 Ex	0474

* Motor nominal values, Ex see info page 16. ¹⁾ Type HRFW../6: connect using wiring diagram no. SS-963. ²⁾ Type HRFW../4: connect using wiring diagram no. SS-965. ³⁾ Incl. full motor protection.

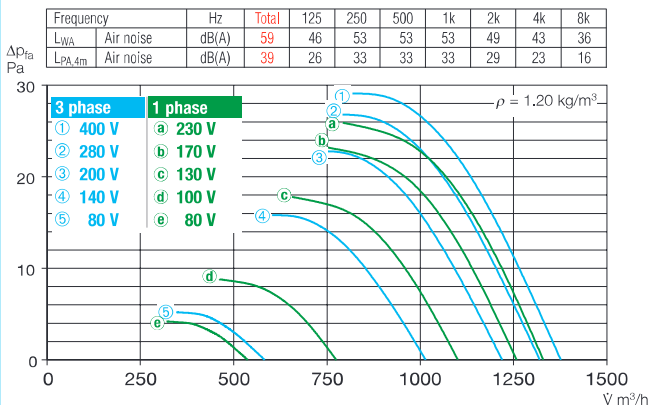
315/2



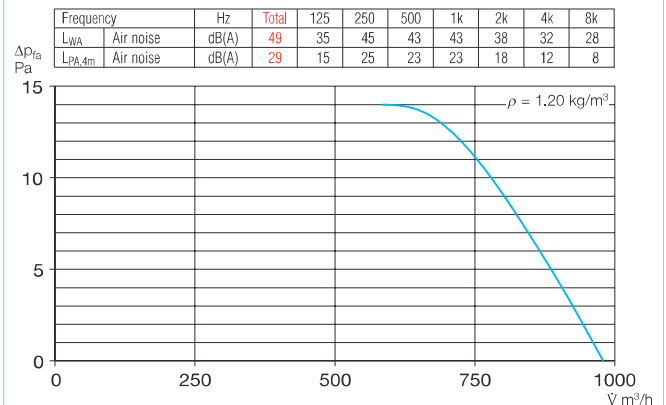
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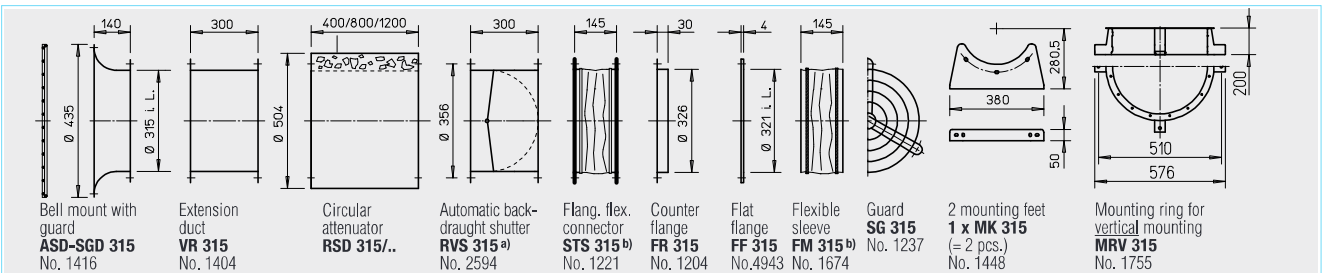
315/6



315/8



Accessories for HRF Description see page 230 on



^{a)} For motorised shutters see accessory page

^{b)} Models for ex-proof fans see below

Frequency inverter with integrated Sine filter		Transformer controller 5-speed Pole switch		Electronic controller, stepless flush/surf.		Full motor protection for connection of integrated thermal contacts		Reversing switch	
Model	Ref. no.	Model	Ref. no.	Model	Ref. no.	Model	Ref. no.	Model	Ref. no.
—	—	TSW 0,3	3608	ESU 1/ESA 1	0236/0238	—	—	WS	1271
—	—	MWS 1,5 ³⁾	1947	ESU 1/ESA 1	0236/0238	MW	1579	WS	1271
FU-BS 2,5 ³⁾	5459	RDS 1 ³⁾	1314	—	—	MD	5849	WS	1271
FU-BS 2,5 ³⁾	5459	RDS 1 ³⁾	1314	—	—	MD	5849	WS	1271
FU-BS 2,5 ³⁾	5459	RDS 2 ³⁾	1315	ESD 5	0501	MD	5849	WS	1271
Speed switch									
FU-BS 2,5 ³⁾	5459	DS2	1351	—	—	M 4 ⁴⁾ /MD	1571/5849	WS	1271
Pole switch									
—	—	PDA 12 ⁵⁾	5081	—	—	M 3 ⁴⁾	1293	PWDA	1282
—	—	PDA 12 ⁵⁾	5081	—	—	M 3 ⁴⁾	1293	PWDA	1282
—	—	not permitted	not permitted	—	—	—	—	—	—
—	—	not permitted	not permitted	—	—	—	—	—	—
—	—	not permitted	not permitted	—	—	—	—	—	—
—	—	not permitted	not permitted	—	—	—	—	—	—

⁴⁾ Incl. pole switch.

⁵⁾ See switch product page for flush mounted version.

Other accessories Page

- Accessories for explosion proof fans
- Flanged flexible connector Type STS 315 Ex Ref. no. 2503
- Flexible sleeve Type FM 315 Ex Ref. no. 1690
- Extension tube for HS Type VH 315 Ref. no. 1344
- Cylindrical duct, galvanised steel, length: 150 mm.
- Attenuators 421 on
- Shutters and grilles 487 on
- Speed controllers and switches 525 on