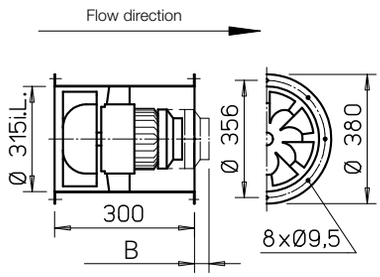
VAR 315



Also available in version:

Dimensions VAR 315



Dim. B see table
Dim. in mm

Casing
Duct with double-sided flange DIN 24155 p. 3. Made of galvanised steel sheet, fixed guide wheel with inner hub for mounting the flange motor.

Impeller
Optimised for high pressure and volume performance.
Special development with spatially curved blades made of high-quality plastic.

Drive
Directly through maintenance-free flange motor. Closed design type IP54. Aluminium casing with cooling fins.
Radio interference-free, sealed ball bearings. Tropicalised winding with moisture proof coating. With condensate drain holes upon request (except for explosion-proof types), and the installation method must be indicated when placing the order.

Power control
The voltage-controllable types are identified in the "Current consumption with control mode" column with a value which must be observed when determining the controller (see Speed controller column). The flow rates are shown in the performance diagram. 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. Explosion-proof types are not controllable.

Electrical connection
Standard terminal box (protection category IP55) on outside of duct.

Installation
Installation possible in any position; but be aware of any condensate drain holes depending on usage.

Motor protection
All types (except for 3~ explosion-proof) are equipped with thermal contacts. These should be wired with the motor protection circuit breaker (see type table) for effective motor protection. For 1~ explosion-proof types, the thermal contacts are wired in series with the winding, automatic deactivation and re-activation after cool down.
Motors without thermal contacts must be protected by means of on-site a motor protection circuit breaker.

Noise levels
See sound power information above performance diagram.
The lower sound pressure value can be determined using the diagram on the "Technical information" page.
See page 14 f for noise emissions and room acoustics.

Reference	Page
Techn. description	256
Selection table	257
Planning information	14 ff.

Special design
Different voltage, frequency, protection category, higher air flow temperature and acid protection upon request.

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

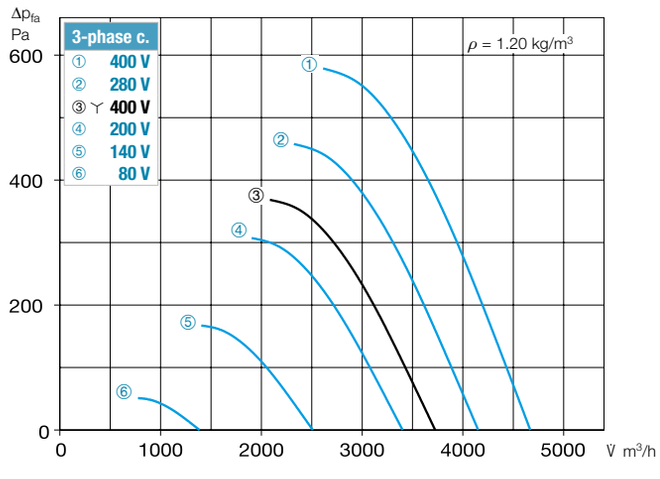
Type	Ref. no.	Speed	Flow rate free-blow.	Power consump.*	Voltage	Current consumption*		Wiring diagram	Max. air flow temp.		Weight net	Dim. B Motor protrusion	Speed controller 5-step Pole chang. switch		Motor protection circuit breaker for connecting built-in thermal contacts		Vibration dampers	
						at rated voltage	with control		at rated voltage	with control							Compr.	Tens.
		min⁻¹	V m³/h	kW	V	A	A	No.	+°C	+°C	ca. kg	mm	Type	Ref. no.	Type	No.	Type	Type
Single-phase alternating current, 50 Hz, protection category IP54																		
VARW 315/4	06677	1440	2480	0.23	230	1.10	1.17	966	60	40	13.0	–	**MWS 3**[1]	01948	**MW**	01579	**SDD 1**	**SDZ 1**
Three-phase current, 50 Hz, protection category IP54																		
VARD 315/4	06678	1450	2510	0.22	400	0.60	0.70	469	60	40	13.0	–	**RDS 1**[1) 4)]	01314	**MD**	05849	**SDD 1**	**SDZ 1**
Two-speed, three-phase current, 50 Hz, Y/Δ connection, protection category IP54																		
VARD 315/2/2	06679	2150/2650	3580/4670	0.9/1.35	400Y/Δ	1.5/2.4	2.5	520	60	40	20.5	66	**RDS 4**[1)]	01316	**M 4**[2)]	01571	**SDD 1**	**SDZ 1**
Pole-changeable, 2 speeds (Dahlander winding Y/YY), Three-phase current, 50 Hz, protection category IP54													Pole chang. switch					
VARD 315/4/2	06777	1480/2890	2730/5340	0.42/1.83	400	1.2/3.3	–	472	60	–	20.5	54	**PDA 12**[3)]	05081	–	–	**SDD 1**	**SDZ 1**
Ex **Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex d, alternating current 230 Volt, 50 Hz, protection category IP55**																		
VARW 315/4 Ex	06738	1450	2680	0.18	230	1.25	–	757	40	–	15.0	6	not permitted		–	–	**SDD 1**	**SDZ 1**
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**																		
VARD 315/4 Ex	06680	1420	2610	0.37	400	1.15	–	470	40	–	17.0	–	not permitted		not permitted		**SDD 1**	**SDZ 1**
VARD 315/2 Ex	06681	2885	5260	1.50	400	3.16	–	470	40	–	23.0	44	not permitted		not permitted		**SDD 1**	**SDZ 1**

* For Ex types: Motor ratings see information on page 20. [1)] incl. motor protection circuit breaker. [2)] includes operating and speed switch. [3)] Flush-m. version see Switch product page.
[4)] Frequency inverter with integrated sine filter, Type FU-BS 2.5, No. 05459, see product page FU.

Performance curves VAR 315/2

n=2700 1/min

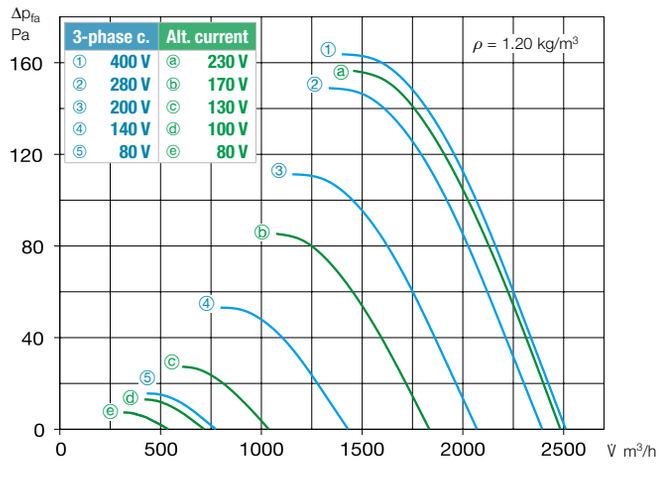
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	91	62	73	84	86	87	82	74
$L_{PA,\ 4m}$	Air noise	dB(A)	71	42	53	64	66	67	62	54



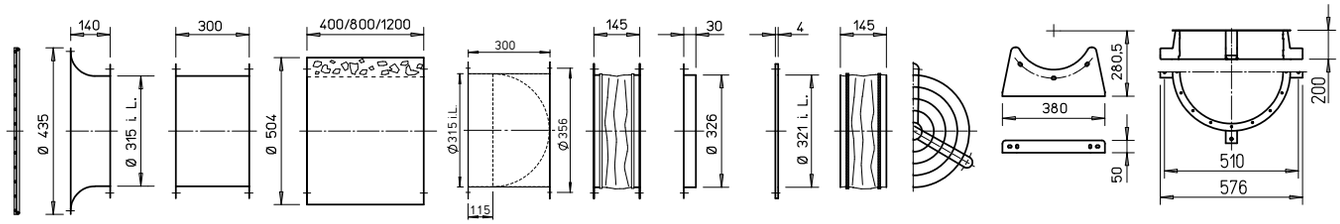
Performance curves VAR 315/4

n=1450 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	76	52	65	70	72	70	63	53
$L_{PA,\ 4m}$	Air noise	dB(A)	56	32	45	50	52	50	43	33



Accessories VAR 315 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 315** No. 01416

Extension duct **VR 315** No. 01404

Duct silencer- **RSD 315/..**

Duct shutter, automatic **RVS 315** [a] No. 02594

Flanged flexible connector **STS 315** [b] No. 01221

Counter flange **FR 315** No. 01204

Flat flange **FF 315** No. 04943

Flexible connecting sleeve **FM 315** [b] No. 01674

Protection grille duct side **SG 315** No. 01237

Mounting brackets **MK 315** (1 Set = 2 pcs) No. 01448

Mounting ring for vertical attachment **MRV 315** No. 01755

[a] Shutter, motorised see Accessories product pages. [b] Types for explosion-proof fans see above.

Other accessories	Page
[b] **Access. for expl.-proof fans**	
Flanged flexible connector STS 315 Ex	Ref. no. 02503
Flexible connecting sleeve FM 315 Ex	Ref. no. 01690
Filters and silencers	483 ff.
Shutters and ventilation grilles	563 ff.
Speed controllers, controllers and switches	601 ff.