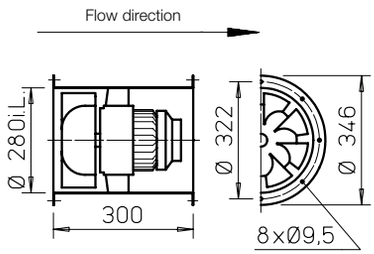
VAR 280



Also available in version:

Dimensions VAR 280



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 or PTC thermistor. 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 reactivation after cool down.
Motors without thermal contacts or PTC thermistor 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.

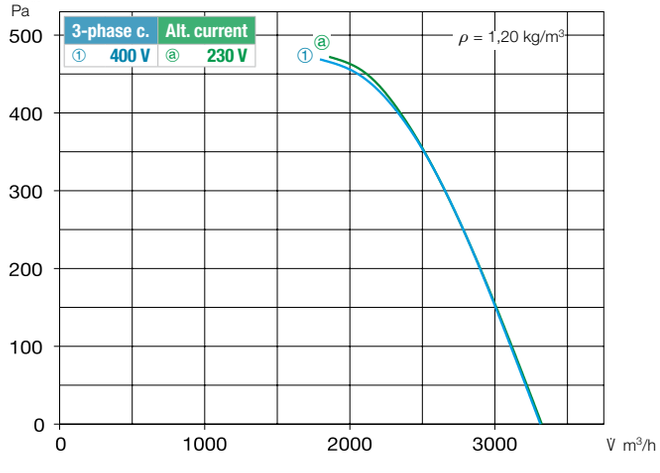
Type	Ref. no.	Speed	Flow rate free-blow.	Power consump.*	Voltage	Current consumption* at rated voltage	Current consumption* with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Speed controller 5-step Pole chang. switch	Ref. no.	Motor protection circuit breaker for connecting built-in thermal contacts	Ref. no.	Vibration dampers Compr.	Vibration dampers Tens.
		min^{-1}	V m^3/h	kW	V	A	A	No.	+°C	+°C	ca. kg	Type		Type		Type	Type
Single-phase alternating current.50 Hz, protection category IP54																	
VARW 280/4	06672	1330	1600	0.11	230	0.50	0.60	966	60	40	12.0	**MWS 1.5**[1]	01947	**MW**	01579	**SDD 1**	**SDZ 1**
VARW 280/2	06659	2830	3450	0.75	230	4.31	–	966	60	–	14.0	—		**MW**	01579	**SDD 1**	**SDZ 1**
Three-phase current, 50 Hz, protection category IP54																	
VARD 280/4	06673	1370	1650	0.12	400	0.35	0.35	469	60	40	12.0	**RDS 1**[1) 4)]	01314	**MD**	05849	**SDD 1**	**SDZ 1**
VARD 280/2	06674	2890	3505	0.75	400	1.64	–	776	60	–	13.5	**RDS 2**[1) 4)]	01315	**MSA**	01289	**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 280/4 Ex	06737	1330	1720	0.18	230	1.25	–	757	40	–	14.0	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 280/4 Ex	06675	1355	1820	0.12	400	0.37	–	470	40	–	16.0	not permitted		not permitted		**SDD 1**	**SDZ 1**
VARD 280/2 Ex	06676	2885	3720	0.75	400	1.59	–	470	40	–	18.0	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 280/2

n=2800 1/min

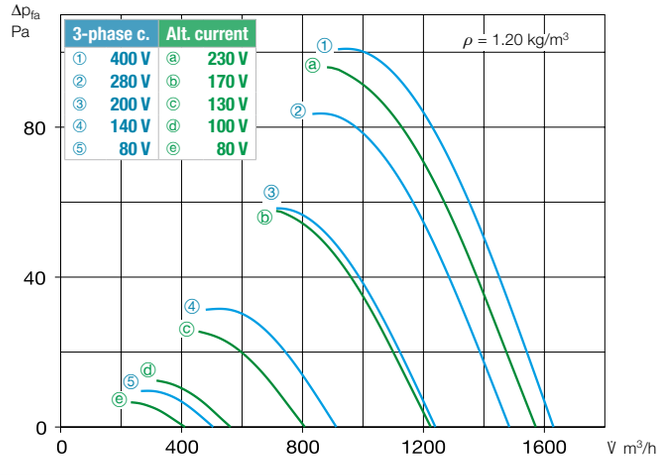
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	88	58	69	80	83	83	79	70
$L_{PA,\ 4m}$	Air noise	dB(A)	68	38	49	60	63	63	59	50



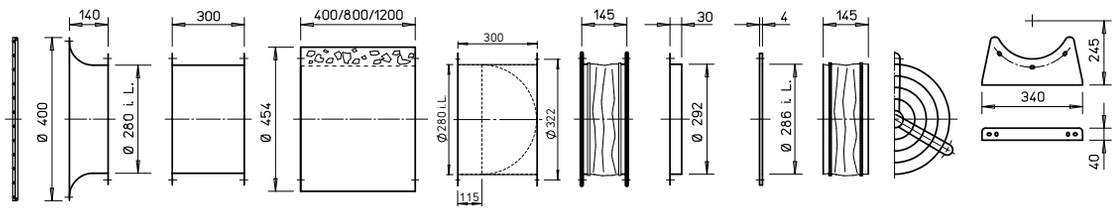
Performance curves VAR 280/4

n=1450 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	72	48	62	66	69	66	59	49
$L_{PA,\ 4m}$	Air noise	dB(A)	52	28	42	46	49	46	39	29



Accessories VAR 280 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 280** No. 01415

Extension duct **VR 280** No. 01403

Duct silencer- **RSD 280/..**

Duct shutter, automatic **RVS 280** [a] No. 02593

Flanged flexible connector **STS 280** [b] No. 01231

Counter flange **FR 280** No. 01214

Flat flange **FF 280** No. 04942

Flexible connecting sleeve **FM 280** [b] No. 01673

Protection grille duct side **SG 280** No. 01428

Mounting brackets **MK 280** (1 Set = 2 pcs) No. 01447

Vibration dampers for tensile load **SDZ 1** (1 set = 4 Pc) No. 01454
Vibration dampers for compression load **SDD 1** (1 set = 4 Pc) No. 01452

[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 280 Ex	Ref. no. 02502
Flexible connecting sleeve FM 280 Ex	Ref. no. 01689
Filters and silencers	483 ff.
Shutters and ventilation grilles	563 ff.
Speed controllers, controllers and switches	601 ff.