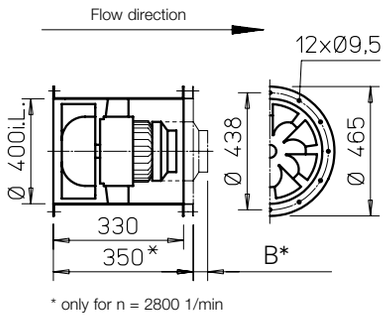
VAR 400



Also available in version: Ex

Dimensions VAR 400



* only for n = 2800 1/min

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.
Types with n = 2800 min^{-1} welded casing, hot-dip galvanised.

Impeller
Optimised for high pressure and volume performance.
Special development with spatially curved blades made of hot-dip galvanised steel.

Drive
Directly through maintenance-free flange motor. Closed design type IP54. Aluminium or grey cast iron 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 explosion-proof models) 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. 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.

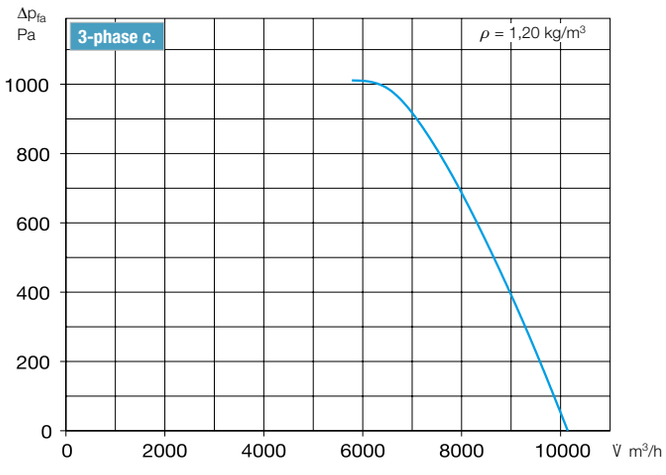
Type	Ref. no.	Speed	Flow rate free-blow.	Power consump.*	Voltage	Current consumption*		Wiring diagram	Max. air flow temp.		Weight net	Dim. B Motor protrusion	Speed controller 5-step Pole chang. switch		Motor protection circuit breaker		Vibration dampers	
						at rated voltage	with control		at rated voltage	with control							Compr.	Tens.
		min^{-1}	V m^3/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 400/4	06688	1400	5320	0.75	230	4.18	–	966	60	40	22.5	–	**MWS 5**[1]	01949	**MW**	01579	**SDD 1**	**SDZ 1**
Three-phase current, 50 Hz, protection category IP54																		
VARD 400/4	06690	1400	5330	0.71	400	1.86	1.90	469	60	40	22.5	–	**RDS 4**[1) 5)]	01316	**MD**	05849	**SDD 1**	**SDZ 1**
VARD 400/2	06691	2940	11160	5.50	400	10.10	–	776	60	40	74.0	280	**RDS 11**[1]	01332	**MSA**	01289	**SDD 1**	**SDZ 2**
Ex **Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55**																		
VARD 400/6 Ex	06692	925	3465	0.25	400	0.80	–	470	40	–	21.0	–	not permitted		not permitted		**SDD 1**	**SDZ 1**
VARD 400/4 Ex	06693	1440	5360	0.55	400	1.32	–	470	40	–	25.0	–	not permitted		not permitted		**SDD 1**	**SDZ 1**
VARD 400/2 Ex[4]	06694	2920	10950	4.60	400	9,10	–	498	40	–	83.0	255	not permitted		not permitted		**SDD 2**	**SDZ 2**

* 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] A vibration monitoring system (on-site) must be provided according to DIN EN 14986. [5] Frequency inverter with integrated sine filter, Type FU-BS 2.5, No. 05459, see product page FU.

Performance curves VAR 400/2

n=2800 1/min

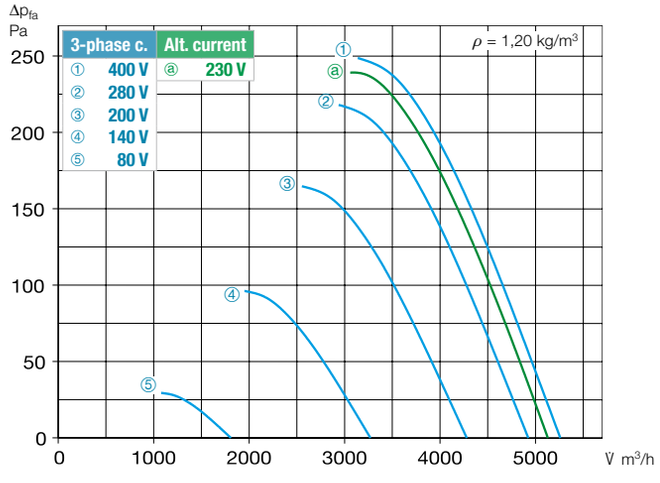
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	98	69	80	91	94	94	90	81
$L_{PA,\ 4m}$	Air noise	dB(A)	78	49	60	71	74	74	70	61



Performance curves VAR 400/4

n=1450 1/min

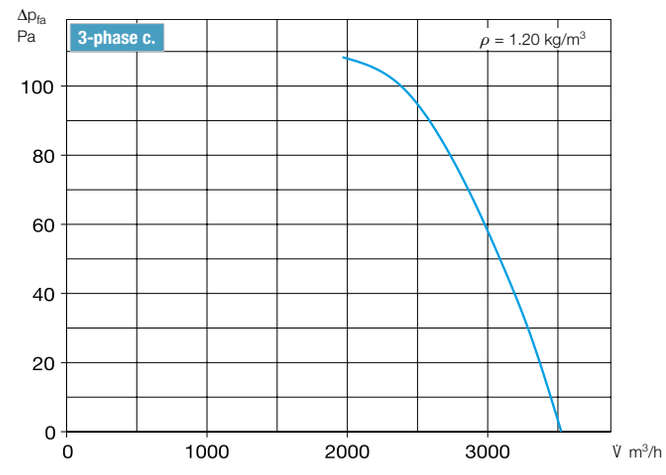
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	83	59	72	77	79	77	70	60
$L_{PA,\ 4m}$	Air noise	dB(A)	63	39	52	57	59	57	50	40



Performance curve VAR 400/6

n=930 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	72	56	62	68	68	64	56	47
$L_{PA,\ 4m}$	Air noise	dB(A)	52	36	42	48	48	44	36	27



Other accessories **Page**

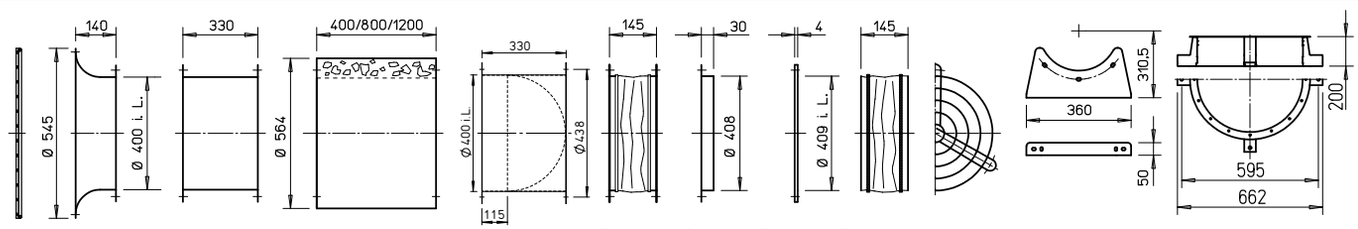
[b] Access. for expl.-proof fans

Flanged flexible connector STS 400 Ex Ref. no. 02505

Flexible connecting sleeve FM 400 Ex Ref. no. 01692

Filters and silencers 483 ff.
Shutters and ventilation grilles 563 ff.
Speed controllers, controllers and switches 601 ff.

Accessories VAR 400 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 400** No. 01418

Extension duct **VR 400** No. 01406

Duct silencer- **RSD 400/..**

Duct shutter, automatic **RVS 400** [a] No. 02596

Flanged flexible connector **STS 400** [b] No. 01223

Counter flange **FR 400** No. 01206

Flat flange **FF 400** No. 04945

Flexible connecting sleeve **FM 400** [b] No. 01676

Protection grille duct side **SG 400** No. 01239

Mounting brackets **MK 400** (1 Set = 2 pcs) No. 01449

Mounting ring for vertical attachment **MRV 400** No. 01760

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