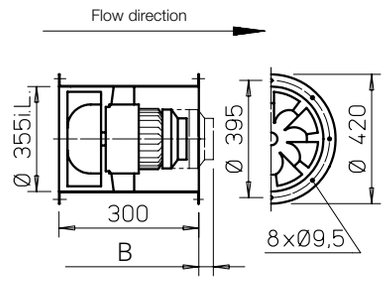
VAR 355

Also available in version:

Dimensions VAR 355



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; made of hot-dip galvanised steel for types with n = 2800 min^{-1}.

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 explosion-proof models and type VARD 355/4/2) 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.

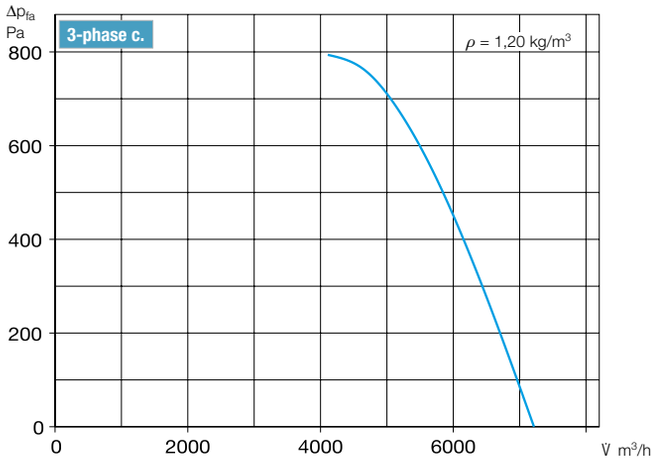
Type	Ref. no.	Speed	Flow rate free-blow.	Power consump.*	Voltage	Current consumption* at rated voltage	Current consumption* with control	Wiring diagram	Max. air flow temp. at rated voltage	Max. air flow temp. with control	Weight net	Dim. B Motor protrusion	Speed controller 5-step Pole chang. switch Type	Ref. no.	Motor protection circuit breaker Type	No.	Vibration dampers Compr.	Vibration dampers Tens.
		min^{-1}	V m^3/h	kW	V	A	A	No.	+°C	+°C	ca. kg	mm						
Single-phase alternating current.50 Hz, protection category IP54																		
VARW 355/4	06682	1420	3500	0.39	230	1.81	2.50	966	60	40	21.0	22	**MWS 3**[1]	01948	**MW**	01579	**SDD 1**	**SDZ 1**
Three-phase current, 50 Hz, protection category IP54																		
VARD 355/4	06683	1440	3550	0.38	400	0.84	1.00	469	60	40	15.5	12	**RDS 1**[1) 5)]	01314	**MD**	05849	**SDD 1**	**SDZ 1**
VARD 355/2	06684	2895	7270	3.00	400	5.71	–	520	60	30	30.3	100	**RDS 7**[1]	01578	**MSA**	01289	**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 355/4 Ex	06685	1420	3740	0.37	400	1.15	–	470	40	–	19.0	–	not permitted		not permitted		**SDD 1**	**SDZ 1**
Ex **Explosion-proof, II 2G Ex h IIB T3 Gb, Motor Ex e, three-phase current 400 Volt, 50 Hz, protection category IP55**																		
VARD 355/2 Ex[4]	06686	2910	7580	2.50	400	4.90	–	498	40	–	33.0	77	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] 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 355/2

n=2800 1/min

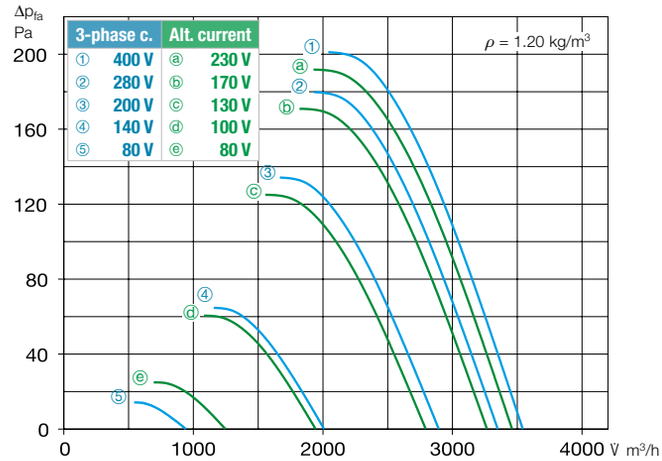
Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	95	65	76	88	90	90	86	77
$L_{PA,\ 4m}$	Air noise	dB(A)	75	45	56	68	70	70	66	57



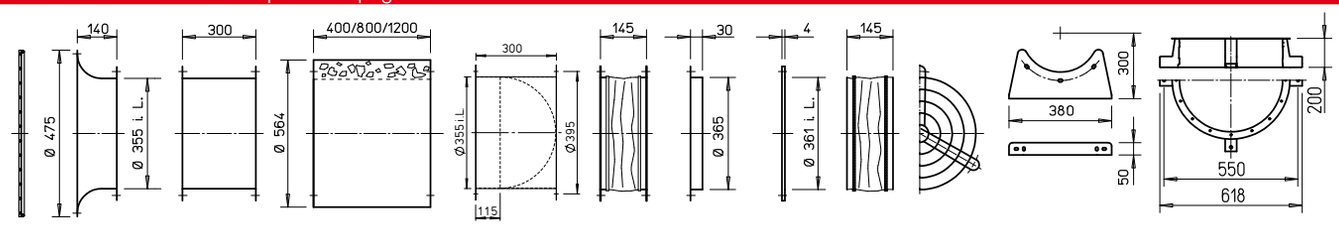
Performance curves VAR 355/4

n=1400 1/min

Frequency		Hz	Tot.	125	250	500	1k	2k	4k	8k
L_{WA}	Air noise	dB(A)	80	55	69	73	76	73	66	56
$L_{PA,\ 4m}$	Air noise	dB(A)	60	35	49	53	56	53	46	36



Accessories VAR 355 Description see page 278 ff.



Intake nozzle with prot. grille **ASD-SGD 355** No. 01417

Extension duct **VR 355** No. 01405

Duct silencer- **RSD 355/..**

Duct shutter, automatic **RVS 355** a) No. 02595

Flanged flexible connector **STS 355** b) No. 01222

Counter flange **FR 355** No. 01205

Flat flange **FF 355** No. 04944

Flexible connecting sleeve **FM 355** b) No. 01675

Protection grille duct side **SG 355** No. 01238

Mounting brackets **MK 355** (1 Set = 2 pcs) No. 01448

Mounting ring for vertical attachment **MRV 355** No. 01759

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 355 Ex	Ref. no. 02504
Flexible connecting sleeve FM 355 Ex	Ref. no. 01691
Filters and silencers	483 ff.
Shutters and ventilation grilles	563 ff.
Speed controllers, controllers and switches	601 ff.