



DVS Roof Fans

Centrifugal roof fan with vertical discharge



- DVS is the non-insulated version
- DVSI is the insulated version with acoustic and thermal insulation 50 mm
- Extensive range of accessories
- Available with AC motors for 50 and 60Hz

[Find more details in our online catalogue](#)

Flexibility

The DVS/DVSI fans are intended to use for **extract** air with **vertical discharge**.

The fans are designed to handle high air volumes at medium pressure without generating excessive noise.

Reliability

The casing made out of **seawater resistant aluminium** with an inside **galvanised steel frame** is hard-wearing. This makes the fan also suitable for coastal applications.

The combination of casing and motor construction ensures to minimize the need for maintenance of the fans and allows long **continuous operation**.

Performance

The **sound optimized** impellers together with **high efficient** external rotor motors are designed to ensure high-level performance to **minimize power consumption** and **maximize efficiency**.

Accessories

DVS/DVSI fans can be selected together with variety types of **accessories** as roof sockets, tilting devices, dampers, etc.

Features

Construction

The **Casing** is made out of **sea water resistant aluminium**. **Base frame** manufactured from **galvanised steel** with integrated inlet cone. Integrated bird guard manufactured from powder coated, galvanised steel.

DVSI is with **50 mm mineral wool acoustic and thermal insulation**.

Impeller

The DVS/DVSI fans use **radial** impeller with **backward curved blades**. These are out of high-performance composite material or aluminum (from Size 710), dynamically **balanced** and paired with corresponding **AC external rotor** motors.

Motor

DVS/DVSI fans are designed with **AC motors**. Motors are suitable for **50Hz** and **60Hz**.

Motor protection

Depending on the type, **AC** motors have an **integrated** thermal protection with manual (electrical) reset, prewired integral **thermocontact TK** or **thermistor PTC** with leads to a **motor protection device**.

Control

The **AC motors** can be controlled by **5-step, stepless** speed regulator, **D/Y** switch or **frequency converter**.

Installation

The DVS/DVSI are for **outside installation**.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50	Hz
Phases	1~	
Input power	478	W
Input current	2.42	A
Impeller speed	1,346	rpm
Air flow	max 4,007	m³/h
Capacitance of capacitor	9	µF
Temperature of transported air	max 60	°C
Max temperature of transported air, when speed controlled	60	°C

Protection/Classification

Enclosure class, motor	IP54
Insulation class	F

Data according to ErP

ErP ready	ErP 2018
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Dimensions and weights

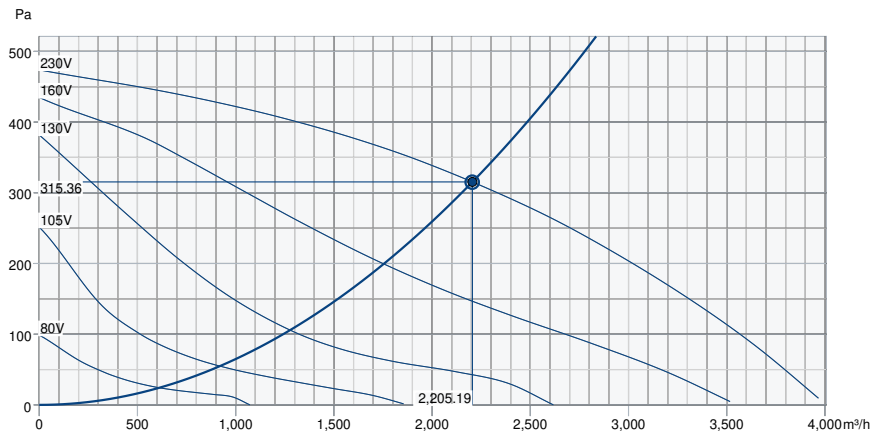
Weight	27	kg
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Others

Motor type	AC
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Performance

Performance curve



Hydraulic data

Required air flow	2,204 m³/h
Required static pressure	315 Pa
Working air flow	2,205 m³/h
Working static pressure	315 Pa
Air density	1.204 kg/m³
Power	469.3 W
Fan control - RPM	1,350 rpm
Current	2.35 A
SFP	0.766 kW/m³/s
Supply voltage	230 V

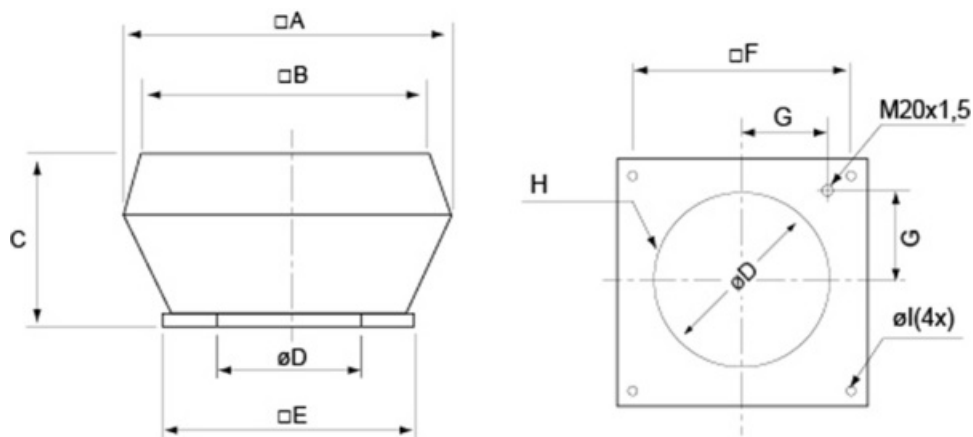
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	41	54	58	62	62	57	53	50	67
Outlet	dB(A)	43	55	59	63	64	58	54	51	68

Accessories

Ecodesign

Product			
Trade name		Systemair	
Product name		DVS 400E4 sileo roof fan	
Ecodesign			
ErP compliance		2018	
Unit category		NRVU	
Drive		External MSD or VSD	
Unit type		UVU	
Heat recovery type		None	
Temperature ratio (UVU)		Not applicable	
qv nom		0.6125	m³/s
P nom		0.469	kW
Ps nom		315	Pa
Fan efficiency		41.1	%
External Leakage		0	%
Sound power (LWA)		68	dB(A)

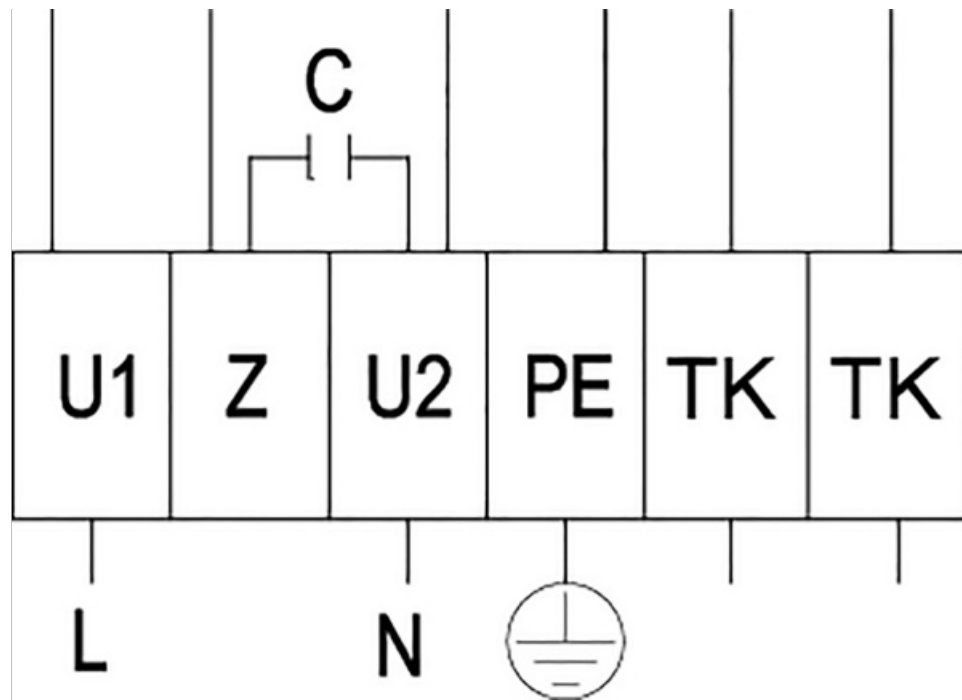
Dimension



* diameter D refers to scREW-hole-circuit H

DVS/DVS sileo	□A	□B	C	∅D	□E	□F	G	H	∅I
355-400	720	618	390	438	595	450	200	6xM8	12(4x)

Wiring



U1	blue (L)
Z	brown
U2	black (N)
PE	green/yellow
TK	grey

Accessories

- ASF 355-500 inlet flange DVS (9569)
- ASS 355-500 flex. con. DVS (9576)
- Motor protect. switch S-ET 10 (161199)
- REE 4 Speed control (5317)
- REU 3 Speed control (5005)
- RTRE 3 Speed control (5009)
- TDA DV 355/400 Adapter (301393)
- RT 0-30 Room Thermostat (5151)
- SSS 355 slant. socket silencer (30077)
- FDS 355/400 flat roof socket (9550)
- FTG 355/400 Tilting device (30508)
- TG 540-800 Roof curb (1727)
- VKS 355-500 Back draft damper (9544)
- ASK 355/400 inflow box SSD (300905)
- Frequency converter FRQ5SE-6A (37421)
- RE 3 Speed control (5001)
- REPT 6 Digital regulator (5698)
- REV-5POL/05-7,5kW R/Y (33979)
- SSD 355/400 socket silencer (9562)
- Frequency converter FRQSE-6A (37419)
- SDS 355/400 slant. roof socket (3785)
- TG 540-1230 Roof curb (1726)
- FDS-L 355/400 flat roof socket (95281)
- SSD 355/400 ZM socket sil (95061)
- VKM 355-500 Back draft damper (9556)
- PKE-2.5V speed controller (30172)

Documents

- [MANUAL_ROOF_FANS_EN_001_.PDF](#)
- [EU DECLARATION OF CONFORMITY_ROOF FANS_EN_004.PDF](#)

Specification