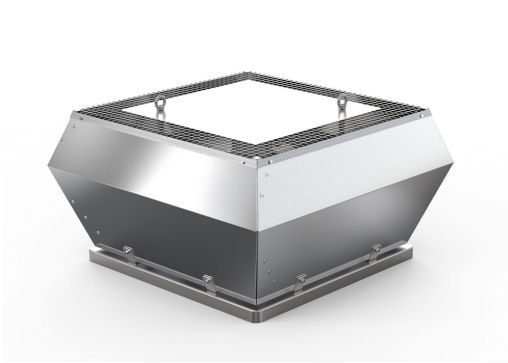




DVS Roof Fans

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-optimised** impellers together with **highly efficient** external rotor motors are designed to ensure high-level performance to **minimise power consumption** and **maximise 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 **seawater-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 aluminium (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)	400	V
Frequency	50	Hz
Phases	3~	
Motor circuit connection	D	
Input power	2470	W
Input power kW	2.47	kW
Input current	4.52	A
Impeller speed	1338	rpm
Air flow	max. 3.9397	m ³ /s
Temperature of transported air	max. 55	°C
Max temperature of transported air, when speed controlled	55	°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

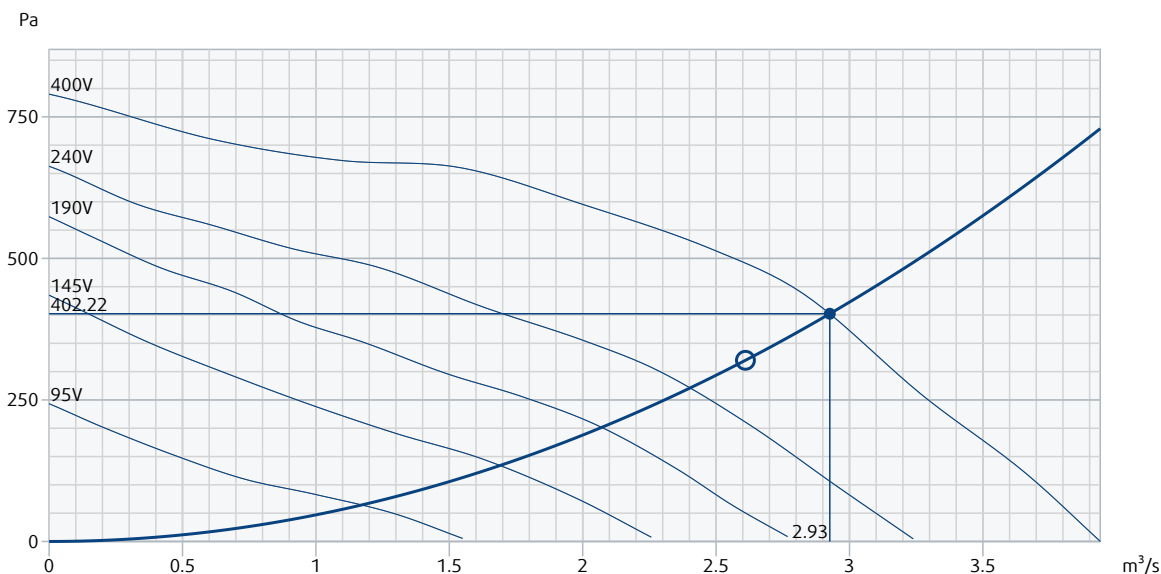
Weight	66	kg
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Others

Motor type	AC
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Performance

Performance curve



Hydraulic data

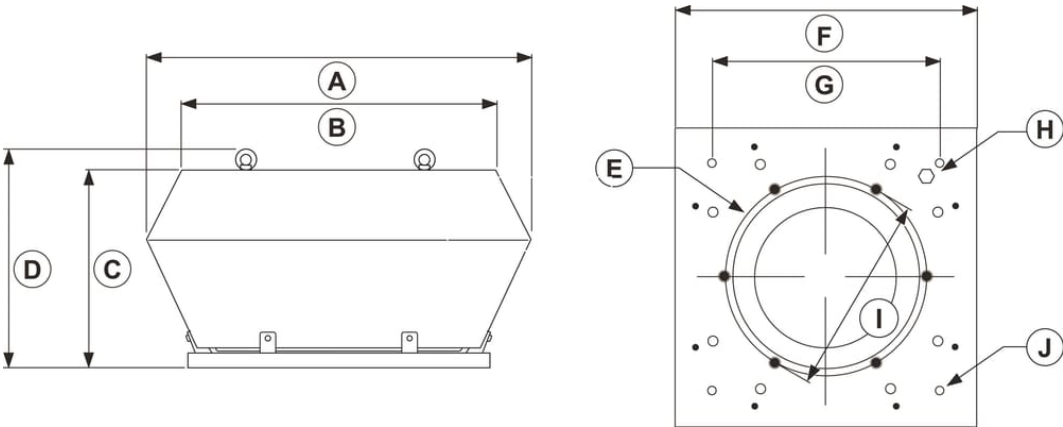
Required air flow	2.61 m³/s
Required static pressure	320 Pa
Working air flow	2.93 m³/s
Working static pressure	402 Pa
Air density	1.204 kg/m³
Power	2,451.3 W
Fan control - RPM	1,339 rpm
Current	4.50 A
SFP	0.838 kW/m³/s
Supply voltage	400 V

Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(C)	80	83	78	78	76	72	68	65	87
Outlet	dB(C)	82	85	80	79	78	73	70	66	88
Sound pressure level at 3m (20m² Sabine)		dB(C)	-	-	-	-	-	-	-	81
Sound pressure level at 3m free field		dB(C)	-	-	-	-	-	-	-	67

Ecodesign

Ecodesign			
ErP compliance		2018	
Unit category		NRVU	
Drive		External MSD or VSD	
Unit type		UVU	
Heat recovery type		nan	
Temperature ratio (UVU)		Not applicable	
qv nom		2.3639	m ³ /s
P nom		2.414	kW
Ps nom		538	Pa
Fan efficiency		52.6	%
External Leakage		0	%
Sound power (LWA)		81	dB(A)

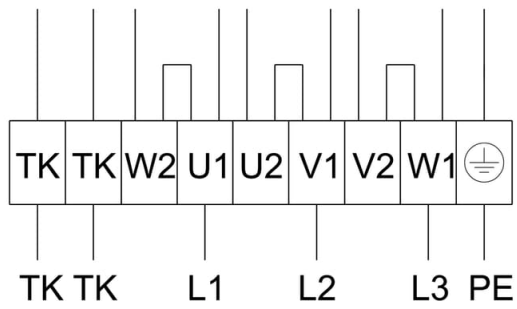
Dimension



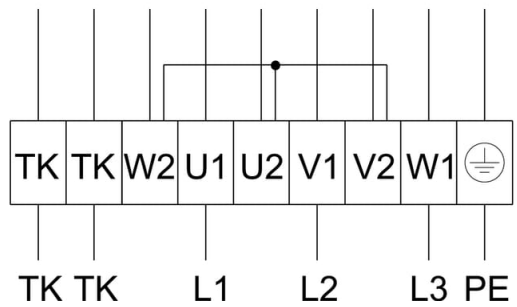
DVS	A	B	C	D	E	F	G	H	ØI	ØJ
630	1150	960	569	607	6xM8	939	750	M20x1,5	605	14(4x)

Wiring

Delta connection



Star connection



AHU Accessories

- ASF 560/630 inlet flange DVS, 9570 (9570)
- ASS 560/630 flex. inl.con. DVS, 9577 (9577)
- FDS 560/630 flat roof socket, 9552 (9552)
- FRQ5S-10A+LED V2, 36234 (36234)
- FTG 560/630 Tilting device, 30509 (30509)
- MicroREX D21 Plus Time Switch, 17822 (17822)
- REV-5POL/07 ON/OFF, 33980 (33980)
- RT 0-30 Room Thermostat, 5151 (5151)
- RTRDU 7 Speed contr. Systemair, 5947 (5947)
- S-DT2SKT Two speed switch Y/D, 2697 (2697)
- SSD 560/630 socket silencer, 9564 (9564)
- TDA DV 560/630, 304815 (304815)
- VKM 560/630 Back draft damper, 9557 (9557)
- ASK 560/630 inflow box SSD, 300908 (300908)
- DTV500A, 96807 (96807)
- FDS-L 560/630 flat roof socket, 95283 (95283)
- FRQS-10A V2, 36232 (36232)
- HR1 Room Humidistat, 215150 (215150)
- Presence detector/IR24-P, 6995 (6995)
- REV-9POL/12 ON/OFF, 33981 (33981)
- RTRD 5.2 Speed control IP54, 32399 (32399)
- S-DT 16E Motor Protection, 161207 (161207)
- SDS 560/630 slant. roof socket, 3781 (3781)
- SSS 560 slant. socket silencer, 30079 (30079)
- TG 940-1200 Roof Curb, 5090 (5090)
- VKS 560/630 Back draft damper, 9545 (9545)

Documents

- Commissioning Report
- MANUAL_ROOF_FANS_EN_005_.PDF
- MOUNTING_INSTRUCTIONS_MLR_ROOF_FAN.PDF