



DVC Roof Fans

Centrifugal roof fan with vertical discharge and EC motor



- DVC is the non-insulated version
- DVCI is the insulated version with acoustic and thermal insulation 50 mm
- DVC/DVCI-S: Potentiometer included for ease of commissioning
- DVC/DVCI-P: Integrated pressure regulator
- Extensive range of accessories
- Available with EC motors for 50 and 60Hz

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

Flexibility

The DVC/DVCI fans are intended to use for **extract** air with **vertical discharge**.

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

DVC/DVCI-S are with stepless control via 0-10 V signal, integrated potentiometer for commissioning.

DVC/DVCI-P are with integrated pressure regulator unit for simple implementation of constant pressure control.

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

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

Features

Construction

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

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

Impeller

The DVC/DVCI fans use **radial** impeller with **backward curved blades**. These are made out of polyamide (size 190 - 225) or polypropylen (from Size 315 up to 710), dynamically **balanced** and paired with corresponding **EC external rotor motors**.

Motor

DVC/DVCI fans are delivered with **EC motors**. Motors are suitable for **50Hz** and **60Hz**.

Motor protection

Fans with **EC** motors have an **integrated** electronic **thermal protection** including **locked-rotor protection** and **soft-start**.

Control

The **DVC/DVCI-S** fans are equipped with a potentiometer (0-10 V), installed in the terminal box. The speed can be easily adjusted should the installation require a different operation point.

DVC/DVCI-P with integrated pressure regulator unit for constant pressure control. Depending on the type, **EC motors** are also equipped by **ModBus** communication or **alarm signal**.

Installation

The DVC/DVCI are for **outside installation**.

Technical parameters

Nominal data

Voltage (nominal)	230	V
Frequency	50; 60	Hz
Phases	1~	
Input power	167	W
Input current	1.34	A
Impeller speed	1,571	rpm
Air flow	max 2,317	m³/h
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	B

Data according to ErP

ErP ready	ErP 2018
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Dimensions and weights

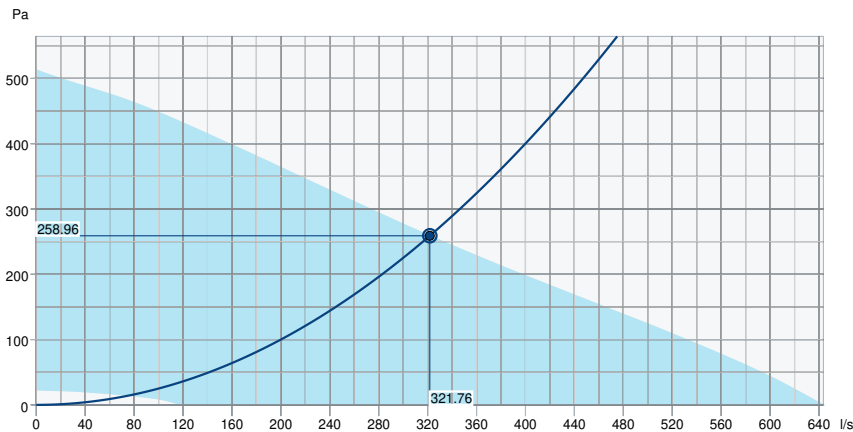
Weight	12.2	kg
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Others

Motor type	EC
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Performance

Performance curve



Hydraulic data

Required air flow	321.80 l/s
Required static pressure	259 Pa
Working air flow	321.76 l/s
Working static pressure	259 Pa
Air density	1.204 kg/m³
Power	166.4 W
Fan control - RPM	1,566 rpm
Current	1.30 A
SFP	0.517 kW/m³/s
Control voltage	10.0 V
Supply voltage	230 V

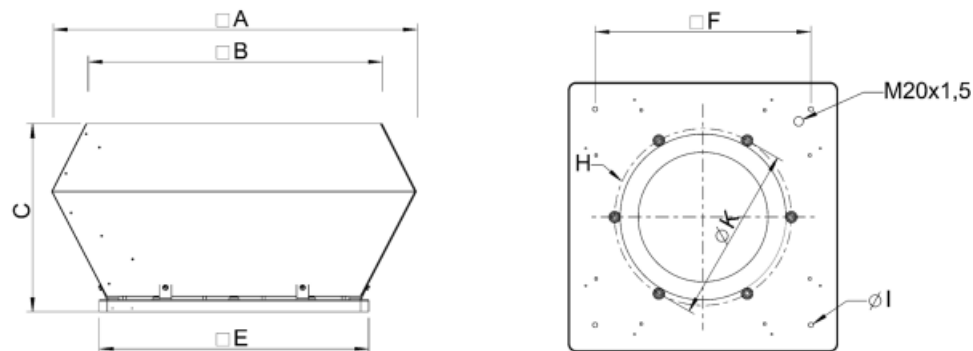
Sound power level		63	125	250	500	1k	2k	4k	8k	Total
Inlet	dB(A)	34	54	53	60	62	58	51	43	66
Outlet	dB(A)	35	56	54	61	63	59	52	44	67

Accessories

Ecodesign

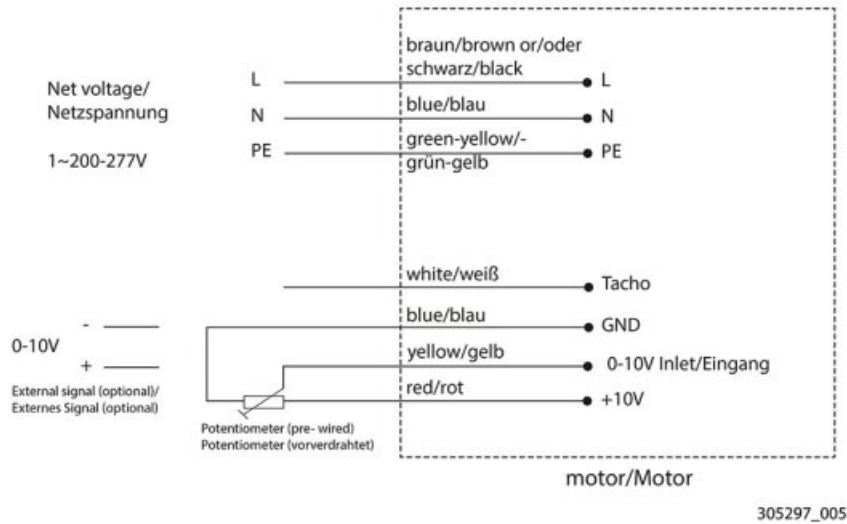
Product		
Trade name	Systemair	
Product name	DVC 315-S (1Ph/230V)	
Ecodesign		
ErP compliance	2018	
Unit category	NRVU	
Drive	Integrated VSD	
Unit type	UVU	
Heat recovery type	None	
Temperature ratio (UVU)	Not applicable	
qv nom	0.3217	m³/s
P nom	0.166	kW
Ps nom	259	Pa
Fan efficiency	50.1	%
External Leakage	0	%
Sound power (LWA)	67	dB(A)

Dimension



DVC-S	□A	□B	C	□E	□F	H	ØK	ØI
315	560	470	330	435	330	6xM8	285	10(4x)

Wiring



Accessories

- ASF 310/311 inlet flange DVS (9568)
- ASS 310/311 flex. inl.con. DVS (9575)
- EC-Vent Room Unit (3018)
- MTV-1/010 Controller 0..10V+ (30650)
- REV-3POL/03-7,5kW R/Y (33978)
- SSD 310/311 socket silencer (9561)
- HR1 Room Humidistat (215150)
- RT 0-30 Room Thermostat (5151)
- SSS 310 slant. socket silencer (30076)
- FDS 310/311 flat roof socket (9549)
- FTG 310/311/315 Tilting device (30507)
- SSD-L 310/311 Socket silencer (79856)
- VKM 310/311 Back draft damper (9555)
- Room hygrostat HR-S (286251)
- ASK 310/311 inflow box SSD (300904)
- EC-Vent control board (3115)
- MTP 10, 10K, Speed control (32731)
- Potentiometer MTP 20, 0-10V (310220)
- REV-5POL/05-7,5kW R/Y (33979)
- TDA DV 310/311 Adapter (301392)
- Presence detector/IR24-P (6995)
- SDS 310/311 slant. roof socket (3784)
- TFR Temp. Sensor (5158)
- FDS-L 310/311 flat roof socket (95279)
- SSD 310/311 ZM socket sil (95062)
- TG 400-800 Roof curb (1718)
- VKS 310/311 Back draft damper (9543)
- TCA 150D2 (156671)

Documents

- [MANUAL_ROOF_FANS_EN_001_.PDF](#)
- [EU DECLARATION OF CONFORMITY_ROOF FANS_EN_004.PDF](#)
- [CIR-DIA_R3G310-RB01-03_160705_EN_001.PDF](#)