

Central ventilation system ZLS-DV EC according to DIN 18017-3.



ZLS-DV EC is the ideal central ventilation system in multi-storey construction according to DIN 18017-3.

- Humid, polluted air is extracted in line with requirements. At the same time, the pressure-controlled controller integrated in the fan guarantees that a set negative pressure is maintained.
 Thus, the planned air flow volume remains unchanged in all other rooms.
- Energy-saving EC technology with highest efficiency, even for controlled operation, and up to 50 % energy saving in comparison with conventional motors.

EXTRACT AIR



The roof fan is connected to the central exhaust shaft. The extract air from wetrooms and kitchens leaves via extract air elements with demand-oriented function. The automatic, stepless power adjustment takes place via the integrated pressure sensor.

66^{or}

OUTSIDE AIR



Draught-free outside air is supplied to the living and bedrooms via automatic elements for window or wall installation.

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FIRE PROTECTION



The spread of fire to other floors is prevented according to building requirements in the classified and unclassified shaft.

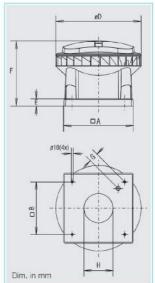
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- Extremely weather-resistant, polymer EC roof fan for an extensive area of application, diagonal discharge.
- Similarities
 DV EC Pro and DV EC Eco

Aerodynamically designed casing from high-quality polypropylene in grey with diagonal air discharge. Air flow temperatures from -30 to +60 °C.

☐ Impeller

Diagonal impeller made from aluminium, the motor-impeller unit is dynamically balanced for low noise operation.

■ Motor

Energy-efficient EC external rotor motor protected to IP 54. Optimised level of efficiency for speed control for low operating costs. Steplessly speed controllable. Maintenance-free and interference-free, ball bearing mounted.

■ Motor protection

Integrated electronic temperature monitoring for EC motor and electronics.

☐ Electrical connection

Standard external terminal box (protection class IP 65) on casing. Connection voltage 1 ph., 230 V, 50 Hz.

☐ Installation

Horizontal installation on the roof. In case of pitched roofs, a suitable base must be provided to prevent water entry. Extensive accessories facilitate the assembly of the fan to the ducting system in the building.

Sound levels

Total sound power levels and the spectrum figures in dB(A) are given for:

- Sound power intake
- Sound power exhaust You can also find sound pressure levels at 4 m (free field conditions) in the table below and below the performance curve.

Specification DV EC Pro

■ Speed control

- Ideal as central exhaust air fan for multi-storey building according to DIN 18017-3.
- In connection with other components (accessories), a complete central ventilation system can be developed according to DIN 18017-3 with demand-driven ventilation.
- Integrated pressure control for air flow volume stabilisation in the connected rooms by automatic speed adaptation with almost constantly good level of efficiency.
- ☐ Integrated pressure sensor 0-300 Pa.
- Short pay back time due to high energy conservation.
- Four potentiometers integrated in the control permit an adjustment to the operating data. The desired operating point can be set directly on site.
- ☐ Integrate serial Bus port (RS 485) for connection of a PC/laptop in combination with the interface (accessories).

Dimen	sions in mm		
Туре	DV EC 200	DV EC 250	DV EC 400
\Box A	460	580	665
□B	330	450	535
ØD	575	708	863
E	60	60	60
F	473	540	601
G	44	48	64
Н	196	241	302

Specification DV EC Eco

Speed control

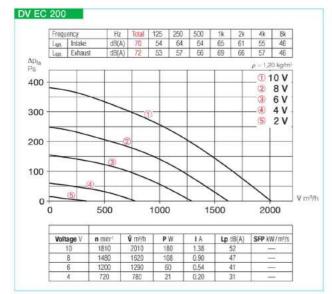
- Stepless speed control with a speed-potentiometer PU/PA 10 (accessories, see table below).
- ☐ In connection with the universal control system EUR EC or electronic pressure/temperature controllers EDR/ETR (accessories, see table below), the fan can be used for stepless differential pressure, differential temperature or flow velocity regulation.
 - For example, the performance levels are shown in the performance curves.

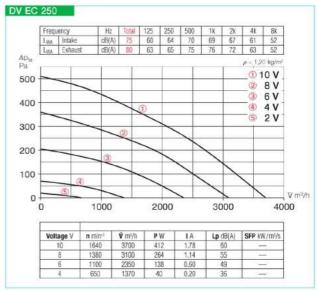
Type R	ef. no.	Maximum R.P.M. approx.	Air flow volume (FID)	Sound pressure case breakout		nsumption um R.P.M.	Wiring diagram	max, air flow temperature	Weight net approx.	Time Unive control s	rsal	fle	Speed-poi ush	tentiometer surfa	9C6
		min ⁻¹	V m³/h	dB(A) in 4 m	kW	Α	No.	+ °C	kg	Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Type DV EC Pro	1 ph. m	otor, 230 V, 50/6	60 Hz, EC motor,	IP 54						Timer					
OV EC 200 Pro	8385	1810	2010	52	0.18	1.38	863.1	60	17.0	ZLS-ZU 3	8388	-		=	-
OV EC 250 Pro	8386	1640	3700	60	0.41	1.78	863.1	60	23.0	ZLS-ZU 3	8388	_		_	_
OV EC 400 A Pro	8387	1020	4070	51	0.30	1.33	863.1	60	33.0	ZLS-ZU 3	1 8388	_	-	_	_
OV EC 400 B Pro	8389	1425	5650	65	0.75	3.32	863.1	60	35.0	ZLS-ZU 3	8388	-	-	_	-
Type DV EC Eco	, 1 ph. m	otor, 230 V, 50/6	60 Hz, EC motor	IP 54						Control sy:	stem				
OV EC 200 Eco	8320	1810	2010	52	0.18	1,38	991	60	17.0	EUR EC 1)	2) 1347	PU 10 ³⁾	1734	PA 10 ³	1735
OV EC 250 Eco	8322	1640	3700	60	0.41	1.78	991	60	23.0	EUR EC 1)	2) 1347	PU 10 ³⁾	1734	PA 10 ³	1735
C 400 A Eco	8324	1020	4070	51	0.30	1.33	991	60	33.0	EUR EC 1)	2) 1347	PU 10 ³⁾	1734	PA 10 ³⁾	1735
OO B Eco	8326	1425	5650	65	0.75	3.32	991	60	35.0	EUR EC 1)	2) 1347	PU 10 ³⁾	1734	PA 10 ³⁾	1735

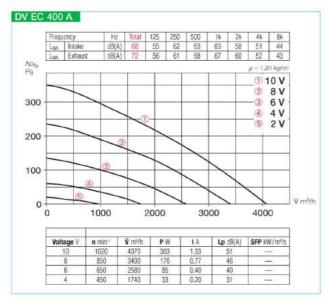
alternative electronic pressure/temp. controller (EDR/ETR, No. 1437/1438) in connection with power supply NG24, No. 1439, see Accessories
 without LED power supply

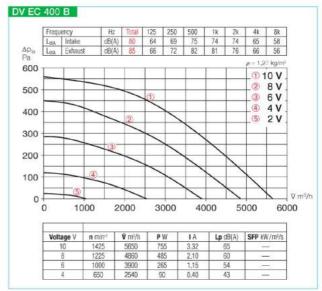
















Kitchen



Ready-to-install extract air element with polymer mounting

To be inserted into ducting with diam, 125 mm, With demandbased and standard ventilation stages, electrical, humidity, motion and time controlled for use pursuant to the following table. Types AE and AE GB with self-regulating air flow volume stabilisation. Humidity controlled types AE Hygro or type AE FV with filter and air flow volume control are preferable for kitchens and bathrooms. Adapter filter element VFE For installation in front of AE, if

room air is polluted and greasy. See product page for details.

- Fire protection shutters for extract air elements AE



- Cold smoke shutter KAK



- Noise reduction element SVE (also suitable for supply air)



Overflow



Noise reduction elements for simple noise-absorption and air volume regulation in central ventilation systems through duct inser-

Fire and smoke shutter.

Suitable for insertion into spiral

ducting without additional mount-

Cold smoke shutter with magnet-

cold smoke into other fire areas in

ic closure. Prevents backflow of

central ventilation system.

ing frame or wall installation with mounting sleeve EH (accessories).

regulation. Door grilles

Discreet, screened ventilation grille made from impact-resistant polymer for door installation.

tion. Also suitable for pressure

* 8 Bathroom Ref. no. Type Ref. no. Type Ref. no. Type Extract air element with self-regulating air flow volume stabilisation * Air flow volume in m3/h AE 45* 2031 AE 30* 2030 AE 75* 2033 As above, but with two air flow volumes (demand-based and standard ventilation) AE GB 20/75* 2036 AE GB 15/30* 2035 AE GB 45/120* 2038 As AE GB, with additional electr. timer (without air flow volume stabilisation) AE GBE 30/60* 2047 AE GBE 15/30* 2044 AE GBE 45/120* 2048 As AE GBE, but with motion sensor AE B 15/30* 2055 Humidity controlled extract air unit with variable, limited air flow volume AE Hygro 10/45* As AE Hygro, with additional electrically controlled demand-based ventilation stage AE Hygro GBE 10/45/120* 2054 AE Hygro GBE 5/40/75* 2053 Extract air element AE FV, with filter and air volume control 9478 AE FV 125 9478 Adapter filter element VFE - to AE / AE GBE, AE Hygro, prevents contamination of the air extract element and ducting system VFE 70/VFE 90 2552/2553

WC

Toilet

Ref. no. Fire protection shutter K 90-18017 BAE 125* 2626 Fire protection shutter K 90-4102 BAK 125* 2621 Mounting sleeve (accessories for both types) EH 125* 2640 Cold smoke shutter KAK 125* 4098

* ND 125, suitable for AE above. See product pages for other ND and detailed descriptions.

Type SVE 100 ND 100 mm Type SVE 125* ND 125 mm

Ref. no. 0246 Type LTGW Made from white polymer.

Type LTGB Made from brown polymer

Intake air elements - Installation in wall openings



Universal supply air unit and thermostatic valve for controlled air intake regulation. See intake air element product pages for detailed descriptions.

- Installation in window frames



Intake air element with air flow volume control and limiter. See intake air element product pages for detailed descriptions, Ideally suitable for retrofitting and new construction.

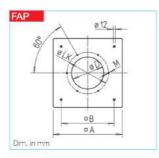
Ø	0 80		100	Ø 160		
Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.	
Supply air unit – Au incl. thermostatic valv			rille			
ZLA 80	0214	ZLA 100	0215	ZLA 160	0216	
Supply air element incl. valve plate with p			xternal grille			
		ZLE 100	0079			
Thermostatic valve	- For installation	n in existing ver	itilation opening	S		
ZTV 80	0078	ZTV 100	0073	ZTV 160	0074	

V				
m³/h	Туре	Ref. no.	Туре	Ref. no.
	e air inlet element n air volume control a	for installation in window frames and limiter	As ALEF, but with sound insulation	additional
30	ALEF 30	2100	ALEFS 30	2102
45	ALEF 45	2101	ALEFS 45	2103
-	CONTRACTOR OF THE PROPERTY OF	for installation in window frames volume control and limiter	As ALEF Hygro, b additional sound	
6/45	ALEF Hygro 6/45	2056	ALEFS Hygro 6/	45 2057



Helios

Flange connecting plate



Flange connecting plate FAP Made from galvanised sheet steel. Allows the connection of the duct system and accessories to the roof fans DV EC, if no base attenuator SSD is used.

Туре	FAP 200	FAP 250	FAP 400
Ref. no.	8382	8383	8384
□ A mm	430	550	635
□ B mm	330	450	535
Ø D mm	200	250	400
Ø LK mm	259	286	438
M	M 6	M 6	M 8
Weight kg	1.8	3.0	3.3

Flange, flanged flexible connector





DV EC	200	DV EC	250	DV EC 400	
Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Flange connect	ing plate – nece	ssary for duct con	nection		
FAP 200	8382	FAP 250	8383	FAP 400	8384
Counterflange					
DFR 200	1201	FR 250	1203	FR 400	1206
Flanged flexible	connector				
DSTS 200	1218	STS 250	1220	STS 400	1223

Flat roof base



Base attenuator



DV EC	200	DV EC	250	DV EC	400
Туре	Ref. no.	Туре	Ref. no.	Туре	Ref. no.
Flat roof base	- with hinge mech	anism for easy ma	aintenance		
FDS 200	1378	FDS 250	1379	FDS 400	1380
Base attenual	t or – with hinge me	chanism for easy	maintenance		
SSD 200	5290	SSD 250	5292	SSD 400	5291

See product pages for detailed descriptions.

Fire protection



Fire damper ELS-D prevents spread of fire to other floors. Installation in ventilation main duct

to DIN 18017 K90. Maintenance free. Approved for use in ventilation shafts or mixed service shafts (even with flammable ducts) only needs to be covered with 12.5 mm plaster-

board cover. All other parts (valves
etc.) do not need fire protection
classification. Flexible aluminium
ducting can be used for the con-
nections. Shutters KAK are to be
provided to avoid backflow of cold
smoke (see left page).

ND mm n	nain duct	100	125	140	160	180	200
Туре	ELS-D	100	125	140	160	180	200
	Ref. no.	0270	0185	0186	0187	0188	0271

Control



Interface

Interface for the start-up and/or control of the fan in connection with a PC/Laptop. Power supply unit, adaptor cable and software included

Type ZLS-IF

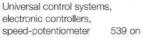
Electronic timer module with day/night regulator

Allows parallel operation of max. 31 DV EC roof fans. The rocker main switch activates the timer module. The day and night regulation is carried out via the settings on the display.

Incl. main switch. 230 V, 50 Hz.

Type ZLS-ZU 31 Ref. no. 8388

Accessory details Roof installation accessories 485 Ventilation grilles 487 on Extract air elements 500 on Intake air elements 512 on Fire protection systems 516 on - Fire damper





Universal control system For stepless control or regulation of single or three phase EC fans

with a setpoint of 0-10 V DC: Type EUR EC

Speed-potentiometer

For direct control/setpoint setting of EC fans with potentiometer in-

Type PU 10 (up) Ref. no. 1734

Type PA 10 (ap) Ref. no. 1735

