



ball bearings

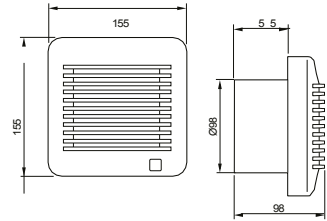


energy efficient system

EDM 100



A 100 C



Technical parameters

■ Cabinet

is made of high quality impact resistant plastic, colour is white. The cabinet is designed for wall mounting.

■ Impeller

is axial made of high quality impact resistant plastic. It has nine aerodynamically and power-optimised blades. It is secured on the shaft by an anti-slip steel spring.

■ Engine

is asynchronous with shorted armature and shielded pole for continuous operation. The maximum ambient operating temperature is 40 °C. The winding is protected against condensation by an additional cover. The motor has overload protection and double insulation. Protection rating IP44, version H IP40, version 12 V IP57.

■ Staples

is accessible by removing the front grille of the valve. The connection is via a cable under the plaster or through the plaster. The terminal block contains a relief clip to prevent the cable from being pulled out.

■ Speed control

by changing the voltage with special regulators.

■ Noise

emitted by the fan is measured at a distance of

1.5 m in the free acoustic field.

■ Installation

horizontally and vertically, preferably with the motor axis in the horizontal position, with regard to bearing life. "Z" version without limitations. Fixing with four screws under the fan grille. Screws and dowels included.

■ Variants

- Z indicates ball bearing version
- EDM 100 S(Z) basic version
- EDM 100 C(Z) version with automatic electric return damper (delayed by approx. 45 s)
- EDM 100 CT(Z) as C, also delayed time approx. 4-8 min
- EDM 100 CR(Z) as C, plus adjustable time 2-20 min

- EDM 100 ECZ as CR, plus built-in light-responsive sensor
- EDM 100 T(Z) delayed time approx. 4-8 min
- EDM 100 R(Z) adjustable time 2-20 min
- EDM 100 HZ Adjustable hygrostat and pull switch
- EDM 100 CHZ version with automatic electric return shutter (delayed by approx. 45 s) and with adjustable hygrostat and pull switch
- EDM 100 VM(Z) window version with pull switch
- EDM 100 S 12 V basic design for 12 V, safe voltage
- EDM 100 C 12 V version, extra with automatic electric shutter return (delayed by approx. 45 s)

■ HVAC accessories

- LG 100 plastic grille (K 7.1)
- PER 100 plastic self-locking shutter (K 7.1)
- WHG 100 Telescopic extension with external grille (K 7.1)
- DME, PT door grille (K 7.1)
- Alurlex®, Sonoflex®, Thermoflex®, Greyflex®, Semiflex® 100 flexo guides (K 7.3)
- RKK 100 check valve (K 7.1)

- OSJ hose clamps (K 7.4)

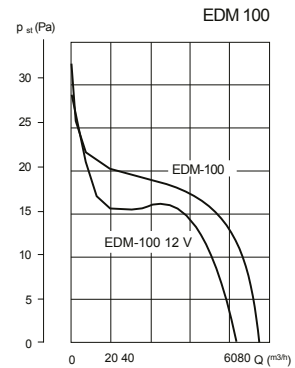
■ EL accessories

- DT, ZN time switches (K 8.2)
- SQA air quality sensor (K 8.2)
- HIG 2 room hygrostat (K 8.2)
- RTR 6721 room thermostat (K 8.2)
- CT 12/14 transformer for EDM 100/12 V (K 8.2)
- CT 12/14 R transformer for EDM 100/12 V with 1 to 30 min (K 8.2)

■ Instructions

The fans are suitable for short air ducts with very low pressure drop or for ventilation through a wall. The fans can be used in conjunction with a HIG 2 hygrostat or a hygrostat combined with a thermostat for ventilation of wet rooms. Variants R and T can be activated with a push button.

Characteristics



Accessories



LG plastic outdoor and indoor grilles in white or brown, with or without drip cap



PER plastic outdoor flaps in white and brown, with or without eaves



PT door grille for air inlet



RTR 6721 space thermostat



HIG, HYG electronic or mechanical hygrometers

Type	revolut ions	flow rate (0 Pa)	perfor manc	Voltag e	max. temperature	Pipes Ø [mm]	acoustic pressure	mass [kg]	controlle	timer switch
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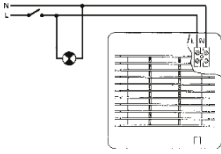
	[min ⁻¹]	[m ³ h]	e	[W]	[V]	[°C]	[dB(A)]	r	
EDM 100			245095	13/17*230		40	100		400,48 on request ZN 708, DT 3, DT 4
EDM 100 S 12 V	2100		85	7	12	40	100	37	0,48 - CT 12/14 R
EDM 100 C 12 V	2100		85	11	12	40	100	37	0,48 - CT 12/14 R

* applies to the EDM 100 C variant

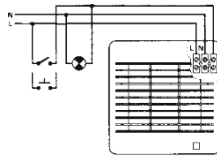
elektrodesign@elektrodesign.cz

Additional illustrations

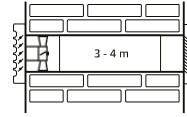
Electrical wiring



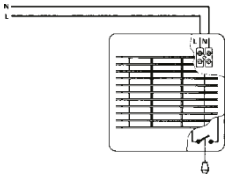
EDM - S/C



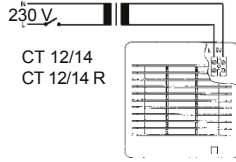
EDM - CR/T/CT



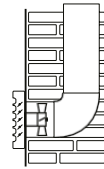
standard suitable solution with EDM model
... C, CT, outer grid and lowest
pressure loss



EDM - 100 VM

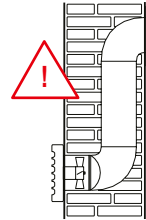
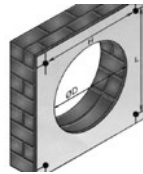
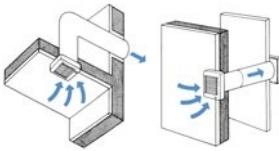


EDM - 100/12 V

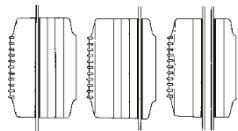


standard suitable solution with EDM model
... C, CT, external grille, short pipe
and acceptable pressure drop

Installation



unsuitable solution with mechanical check
valve, pipes and fittings with
high pressure drop



	Ø D		H	L
	min	max		
	100	110	134	134

examples of
installation in the window for
type EDM 100 VM(Z)



S&P fan impellers are equipped
with a steel spring to prevent the
impeller from slipping off the motor
shaft during thermal overload of the
motor.



All models of the EDM 100 and
HEF 100 series are equipped with a
special motor cover against
condensate dripping.



All EDM and HEF models marked C or P
are equipped with a lossless linear actuator
damper, which is not very sensitive to
sticking with greasy condensate.

