

## BELT-DRIVEN EXHAUST FAN

Exhaust fan specifically designed for high airflow capacity. Available in 42'' and 53'', their main features are great efficiency and low maintenance costs.

The fan housing is available in galvanized or stainless steel (Aeternum EWS 53 only) for the maximum corrosion resistance. The entire line is tested in our PERlab and certified by BessLab.

Choice of two patented opening systems

EOS  
FLAP  
SYSTEM



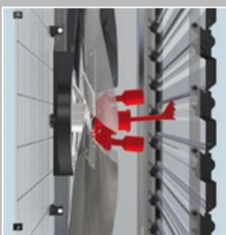
Closed shutter

Exclusive  
opening



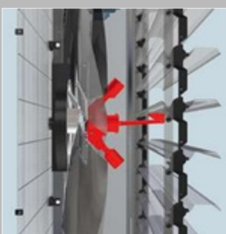
Open shutter

EWS  
CENTRIFUGAL  
SYSTEM



Closed shutter

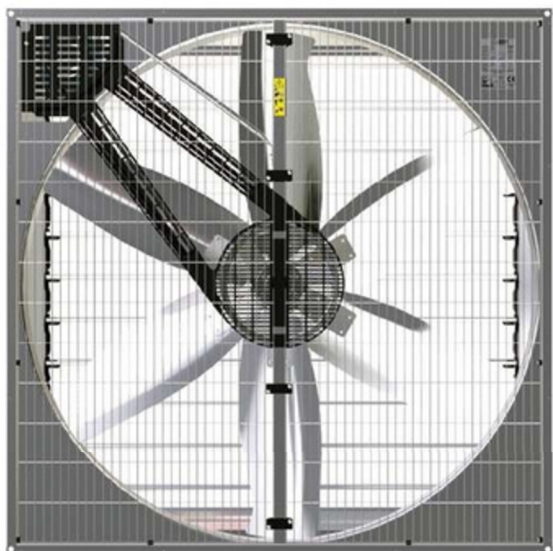
Conventional  
opening



Open shutter



# EOS EWS



## Features and advantages



Effective protection from light and air thanks to the gaskets, which guarantee a perfect closure of the blades



**SK** optional external safety netting



Fixing threaded bush (M8)



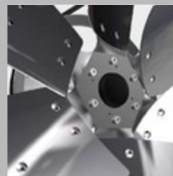
Bottom panel with 4 practical water discharge holes



Easy opening guards



Pre-tensioned V-belt



Propeller hub in steel with corrosion protection



Plastic safety guard on drive belt (CA optional)

### EOS / EWS 53 - test number Bess Lab: 10090; 10092; 10094; 10097; 10106; 10108

Model	Voltage*	Frequency	Propeller rotation speed (0 Pa - 0 inH <sub>2</sub> O)	Air flow				Absorbed power (0 Pa - 0 in H <sub>2</sub> O)	Absorbed power (25 Pa - 0.10 inH <sub>2</sub> O)	Specific power input (0 Pa - 0 inH <sub>2</sub> O)	Specific power input (25 Pa - 0.10 inH <sub>2</sub> O)	Ventilating Efficiency Ratio (0 Pa - 0 inH <sub>2</sub> O)	Ventilating Efficiency Ratio (25 Pa - 0.10 inH <sub>2</sub> O)
				0 Pa 0 inH <sub>2</sub> O	12 Pa 0.05 inH <sub>2</sub> O	25 Pa 0.10 inH <sub>2</sub> O	50 Pa 0.20 inH <sub>2</sub> O						
EOS 53/2*	Δ 220-240 V Y 380-420 V	50 Hz	516 RPM	26.200 cfm	25.300 cfm	24.200 cfm	21.700 cfm	1914 W	2019 W	43 W/ (1000m <sup>3</sup> /h)	49 W/ (1000m <sup>3</sup> /h)	13,7 cfm/W	12,0 cfm/W
				44.500 m <sup>3</sup> /h	42.900 m <sup>3</sup> /h	41.100 m <sup>3</sup> /h	36.800 m <sup>3</sup> /h						
EWS 53/2	Δ 220-270 V Y 380-460 V	60 Hz	515 RPM	26.200 cfm	25.200 cfm	24.200 cfm	22.100 cfm	1916 W	2038 W	43 W/ (1000m <sup>3</sup> /h)	50 W/ (1000m <sup>3</sup> /h)	13,7 cfm/W	11,9 cfm/W
				44.600 m <sup>3</sup> /h	42.900 m <sup>3</sup> /h	41.200 m <sup>3</sup> /h	37.500 m <sup>3</sup> /h						
EOS 53/1,5*	Δ 220-240 V Y 380-420 V	50 Hz	473 RPM	24.200 cfm	23.100 cfm	22.000 cfm	19.500 cfm	1491 W	1603 W	36 W/ (1000m <sup>3</sup> /h)	43 W/ (1000m <sup>3</sup> /h)	16,2 cfm/W	13,7 cfm/W
				41.100 m <sup>3</sup> /h	39.300 m <sup>3</sup> /h	37.400 m <sup>3</sup> /h	33.100 m <sup>3</sup> /h						
EWS 53/1,5	Δ 220-270 V Y 380-460 V	60 Hz	473 RPM	24.100 cfm	23.100 cfm	22.000 cfm	19.600 cfm	1496 W	1611 W	37 W/ (1000m <sup>3</sup> /h)	43 W/ (1000m <sup>3</sup> /h)	16,1 cfm/W	13,7 cfm/W
				40.900 m <sup>3</sup> /h	39.200 m <sup>3</sup> /h	37.400 m <sup>3</sup> /h	33.300 m <sup>3</sup> /h						
EOS 53/1*	Δ 220-240 V Y 380-420 V	50 Hz	393 RPM	20.200 cfm	19.000 cfm	17.400 cfm	13.700 cfm	934 W	1021 W	27 W/ (1000m <sup>3</sup> /h)	35 W/ (1000m <sup>3</sup> /h)	21,6 cfm/W	17,0 cfm/W
				34.300 m <sup>3</sup> /h	32.200 m <sup>3</sup> /h	29.500 m <sup>3</sup> /h	23.200 m <sup>3</sup> /h						
EWS 53/1	Δ 220-270 V Y 380-460 V	60 Hz	390 RPM	20.000 cfm	18.700 cfm	17.300 cfm	13.500 cfm	942 W	1045 W	28 W/ (1000m <sup>3</sup> /h)	36 W/ (1000m <sup>3</sup> /h)	21,2 cfm/W	16,5 cfm/W
				34.000 m <sup>3</sup> /h	31.800 m <sup>3</sup> /h	29.300 m <sup>3</sup> /h	23.000 m <sup>3</sup> /h						

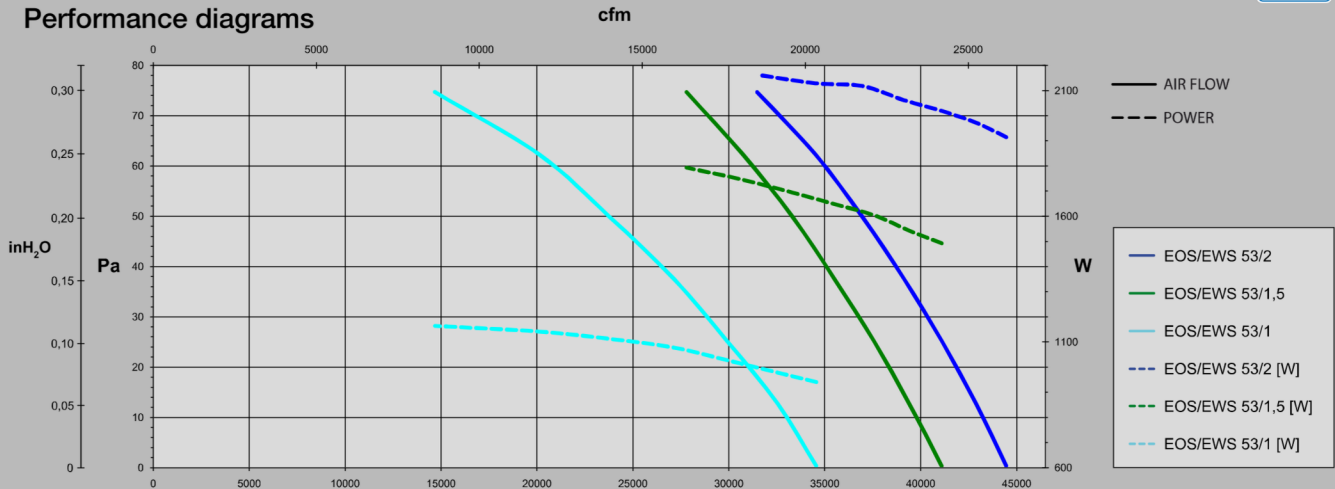
### EOS / EWS 42 - test number Bess Lab: 12324; 12321; 12317; 12320

EOS 42/1*	Δ 220-240 V Y 380-420 V	50 Hz	579 RPM	14.600 cfm	13.900 cfm	13.100 cfm	11.400 cfm	909 W	978 W	37 W/ (1000m <sup>3</sup> /h)	44 W/ (1000m <sup>3</sup> /h)	16,1 cfm/W	13,4 cfm/W
				24.900 m <sup>3</sup> /h	23.700 m <sup>3</sup> /h	22.300 m <sup>3</sup> /h	19.400 m <sup>3</sup> /h						
EWS 42/1	Δ 220-270 V Y 380-460 V	60 Hz	610 RPM	15.400 cfm	14.800 cfm	14.000 cfm	12.400 cfm	1097 W	1171 W	42 W/ (1000m <sup>3</sup> /h)	49 W/ (1000m <sup>3</sup> /h)	14,0 cfm/W	12,0 cfm/W
				26.200 m <sup>3</sup> /h	25.100 m <sup>3</sup> /h	23.800 m <sup>3</sup> /h	21.000 m <sup>3</sup> /h						
EOS 42/0,75*	Δ 220-240 V Y 380-420 V	50 Hz	525 RPM	13.300 cfm	12.400 cfm	11.600 cfm	9.400 cfm	724 W	784 W	32 W/ (1000m <sup>3</sup> /h)	40 W/ (1000m <sup>3</sup> /h)	18,3 cfm/W	14,8 cfm/W
				22.600 m <sup>3</sup> /h	21.100 m <sup>3</sup> /h	19.700 m <sup>3</sup> /h	16.000 m <sup>3</sup> /h						
EWS 42/0,75	Δ 220-270 V Y 380-460 V	60 Hz	527 RPM	13.300 cfm	12.600 cfm	11.700 cfm	9.600 cfm	741 W	804 W	33 W/ (1000m <sup>3</sup> /h)	40 W/ (1000m <sup>3</sup> /h)	17,9 cfm/W	14,5 cfm/W
				22.500 m <sup>3</sup> /h	21.300 m <sup>3</sup> /h	19.900 m <sup>3</sup> /h	16.300 m <sup>3</sup> /h						

Tested according to ANSI/AMCA 210-07 ANSI/ASHRAE 51-07 complying with ASABE/S565 OCT 2005.  
 \*Single phase motors, different voltage and speed regulable motors over transformers are available on request.  
**Note:** All fans tested with shutter and protection net.



### Performance diagrams

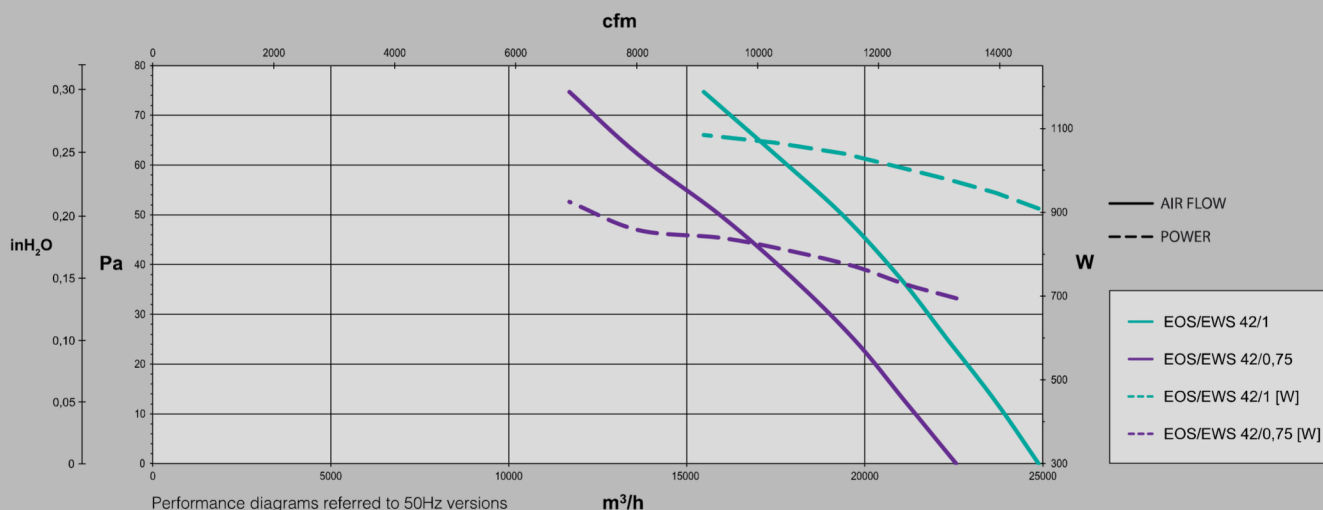


Performance diagrams referred to 50Hz versions



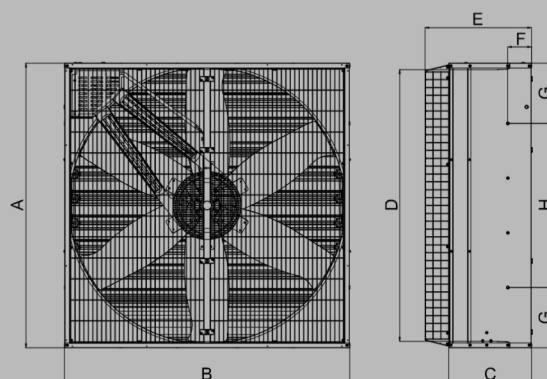
## Performance diagrams

EOS EWS



## Dimensions and loading possibilities

Dimensions	EOS / EWS 53	EOS / EWS 42
Dimension - A - [mm]	1380	1145
Dimension - B - [mm]	1380	1145
Dimension - C - [mm]	400	400
Dimension - E - [mm]	515	515
Dimension - F - [mm]	114	109
Dimension - G - [mm]	292	225
Dimension - H - [mm]	795	692
Dimension - D - [mm]	1340	1060
Sound pressure level Lpa* [dB]	74,8-68,4	72,7-68,2
Weight** [kg]	80-69	54-50



\*Measurement surface according to UNI EN ISO 3744 pic C.7  
 \*\*The weight depends on chosen configuration.

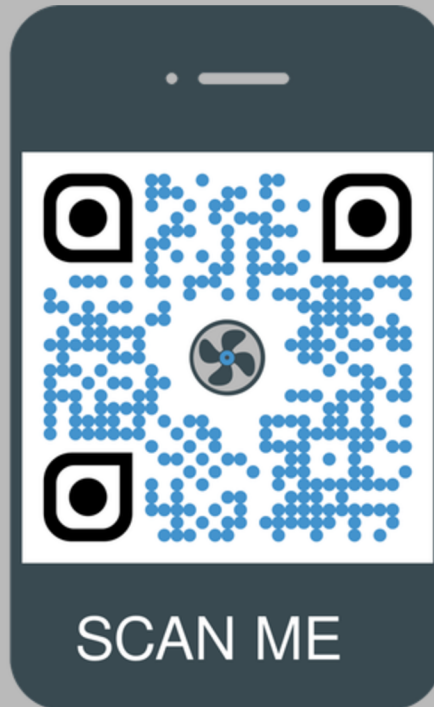
Loading possibilities on pallet		
Fully assembled version (FA)	EOS / EWS 53	EOS / EWS 42
LxWxH [mm]	1200x1400x1550	1200x1200x2200
N° pieces	3	5
Gross weight - kg	250	270

Loading possibilities				
Model	Fully assembled version (FA)		Knock-down version (KD)	
	53	42	53	42
Container 20ft	28	50	180	250
Container 40ft	58	102	300	450
Container 40ft HC	66	124	---	---
Truck	74	140	360	500



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