



ventilation

EXHAUST FANS FOR AGRICULTURAL AND INDUSTRIAL APPLICATIONS

since 1967



 **TERMOTECNICA®**
PERICOLI

EOS

EWS

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 **PERI**lab and certified by BessLab.

Choice of two patented opening systems



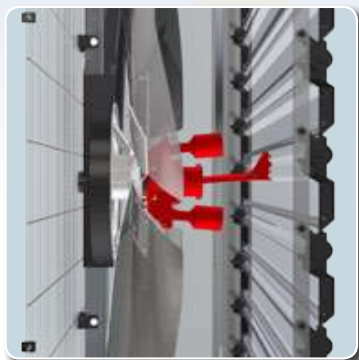
Closed shutter

EOS
FLAP
SYSTEM

innovative
opening



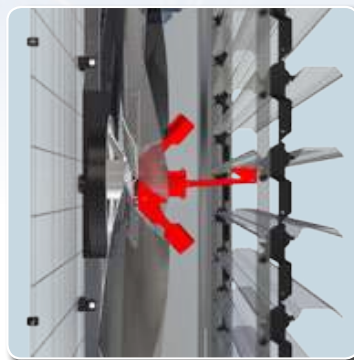
Open shutter



Closed shutter

EWS
CENTRIFUGAL
SYSTEM

conventional
opening



Open shutter

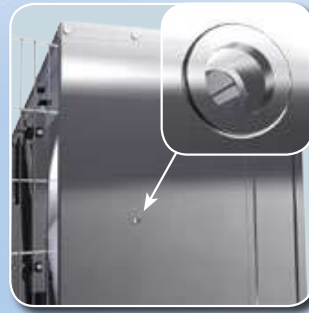
FEATURES AND ADVANTAGES

EOS

EWS



Air and light-tight



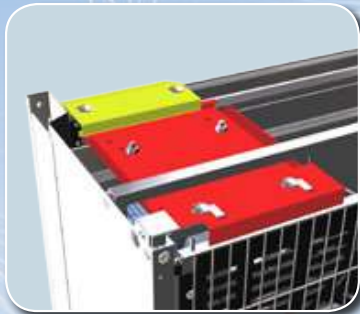
Fixing threaded bush (M8)



SK optional external safety netting



Bottom panel with 4 practical water discharge holes



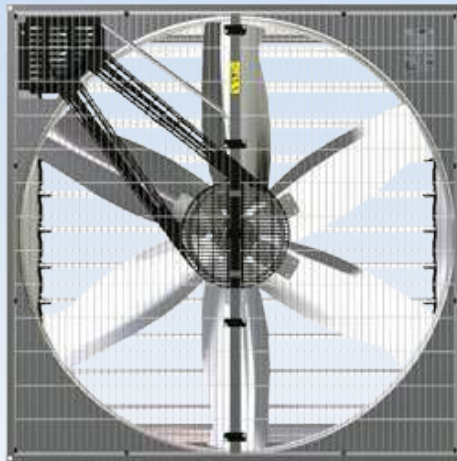
Sturdy and efficient transmission system



Easy opening guards



Pre-tensioned V-belt

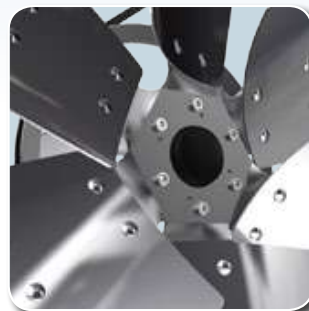


Aerodynamic central pulley

Plastic safety guard on drive belt (CE version)



Propeller hub in steel with corrosion protection



EOS / EWS 53 - BELT DRIVE - Test number Bess Lab: 10090; 10092; 10094; 10097; 10106; 10108; 10101; 10102

Model	Voltage**	Frequency	Propeller rotation speed* (0 Pa - 0 inH ₂ O)	Air flow*				Absorbed power* (0 Pa - 0 in H ₂ O)	Absorbed power* (25 Pa - 0.10 inH ₂ O)	Specific power input* (0 Pa - 0 inH ₂ O)	Specific power input* (25 Pa - 0.10 inH ₂ O)	Ventilating Efficiency Ratio* (0 Pa - 0 inH ₂ O)	Ventilating Efficiency Ratio* (25 Pa - 0.10 inH ₂ O)
				0 Pa 0 inH ₂ O	12 Pa 0.05 inH ₂ O	25 Pa 0.10 inH ₂ O	50 Pa 0.20 inH ₂ O						
EOS 53/2* EWS 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 ³ /h)	49 W/(1000m ³ /h)	13,7 cfm/W	12,0 cfm/W
				44.500 m ³ /h	42.900 m ³ /h	41.100 m ³ /h	36.800 m ³ /h						
	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 ³ /h)	50 W/(1000m ³ /h)	13,7 cfm/W	11,9 cfm/W
				44.600 m ³ /h	42.900 m ³ /h	41.200 m ³ /h	37.500 m ³ /h						
EOS 53/1,5* EWS 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 ³ /h)	43 W/(1000m ³ /h)	16,2 cfm/W	13,7 cfm/W
				41.100 m ³ /h	39.300 m ³ /h	37.400 m ³ /h	33.100 m ³ /h						
	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 ³ /h)	43 W/(1000m ³ /h)	16,1 cfm/W	13,7 cfm/W
				40.900 m ³ /h	39.200 m ³ /h	37.400 m ³ /h	33.300 m ³ /h						
EOS 53/1* EWS 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 ³ /h)	35 W/(1000m ³ /h)	21,6 cfm/W	17,0 cfm/W
				34.300 m ³ /h	32.200 m ³ /h	29.500 m ³ /h	23.200 m ³ /h						
	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 ³ /h)	36 W/(1000m ³ /h)	21,2 cfm/W	16,5 cfm/W
				34.000 m ³ /h	31.800 m ³ /h	29.300 m ³ /h	23.000 m ³ /h						

EOS / EWS 42 - BELT DRIVE - Test number Bess Lab: 12324; 12321; 12317; 12320

EOS 42/1* EWS 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 ³ /h)	44 W/(1000m ³ /h)	16,1 cfm/W	13,4 cfm/W
				24.900 m ³ /h	23.700 m ³ /h	22.300 m ³ /h	19.400 m ³ /h						
	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 ³ /h)	49 W/(1000m ³ /h)	14,0 cfm/W	12,0 cfm/W
				26.200 m ³ /h	25.100 m ³ /h	23.800 m ³ /h	21.000 m ³ /h						
EOS 42/0,75* EWS 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 ³ /h)	40 W/(1000m ³ /h)	18,3 cfm/W	14,8 cfm/W
				22.600 m ³ /h	21.100 m ³ /h	19.700 m ³ /h	16.000 m ³ /h						
	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 ³ /h)	40 W/(1000m ³ /h)	17,9 cfm/W	14,5 cfm/W
				22.500 m ³ /h	21.300 m ³ /h	19.900 m ³ /h	16.300 m ³ /h						

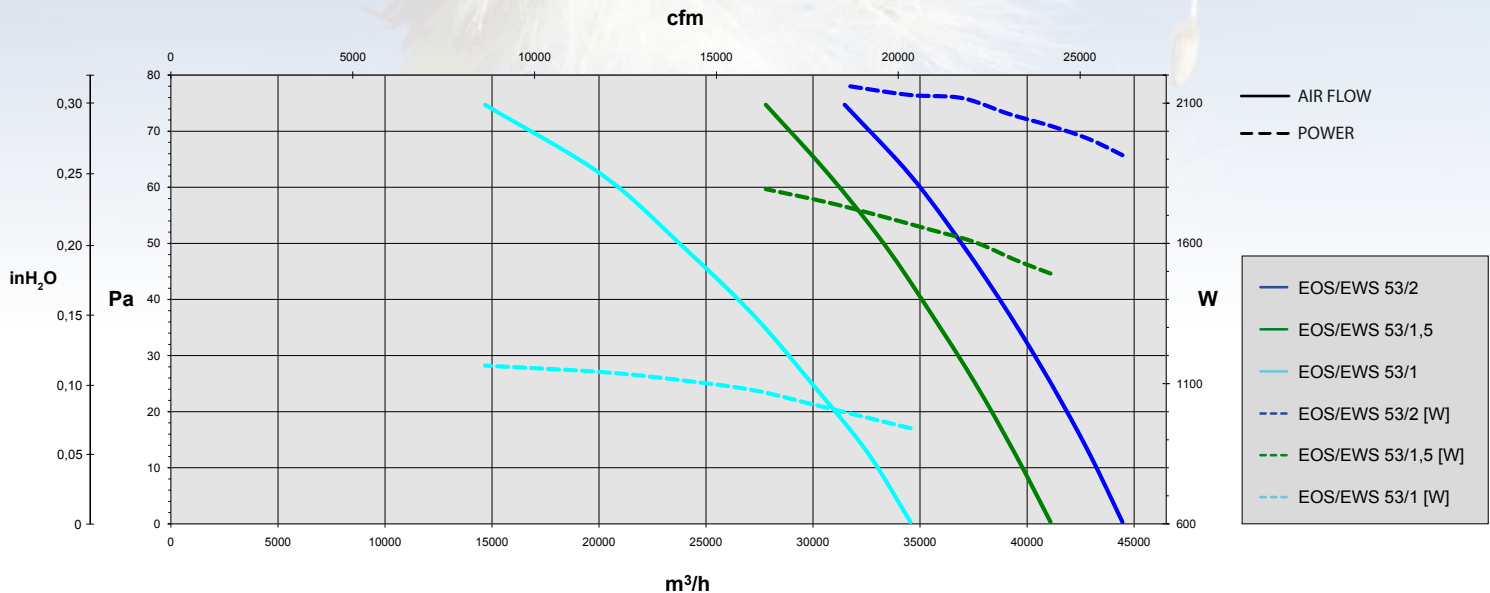
*According to ASABE/S565 OCT2005 at Certifying Laboratory ANSI/AMCA 210-07 test protocol ANSI/ASHRAE 51-07.

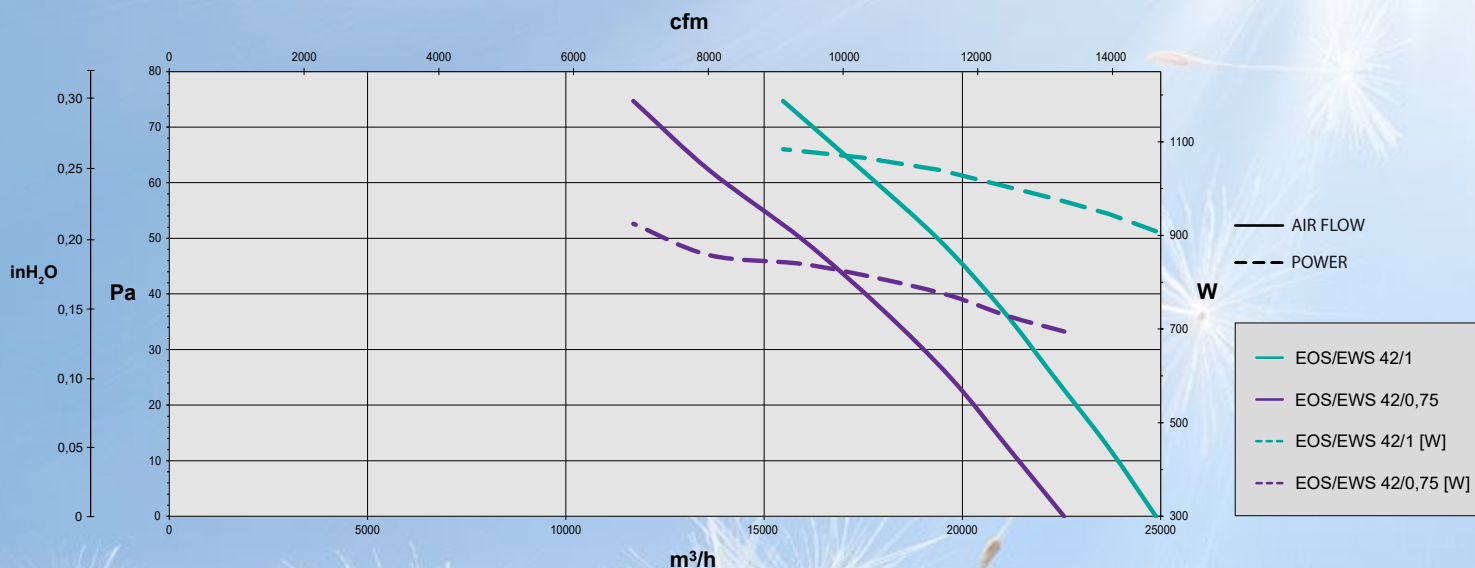
**Single phase motors, different voltage and speed regulable motors over transformers are available on request.

Note: All fans tested with shutter and protection net.



Performance diagrams



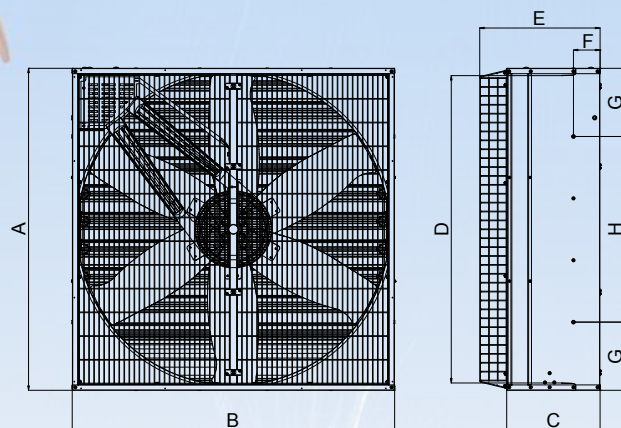


Dimensions and loading possibilities

DIMENSION	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 L _{pa} * [dB]	74,8-64	72,7-68,2
Weight** [kg]	80-69	54-50

* Measurement surface according to UNI EN ISO 3744

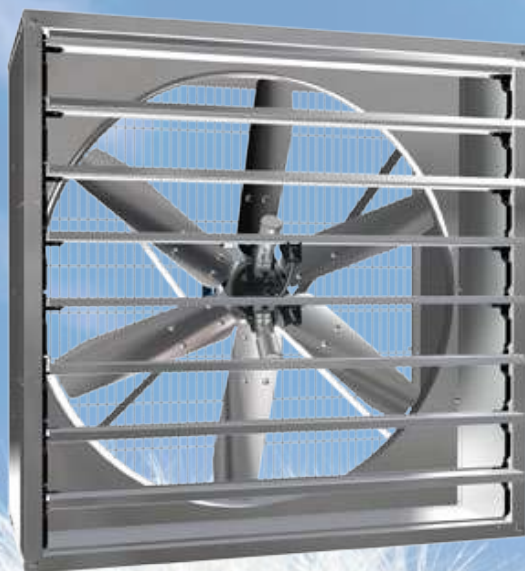
** The weight depends on chosen configuration



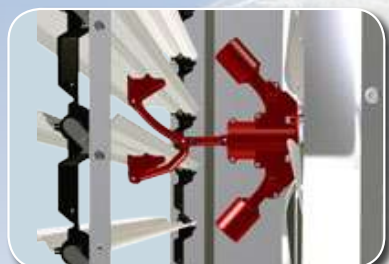
LOADING POSSIBILITIES EOS / EWS ON PALLET		
Fully assembled version (FA)	EOS / EWS 53	EOS / EWS 42
LxWxH - mm	1200x1400x1550	1200x1200x2200
N° pieces	3	5
Gross weight - kg	250	270

LOADING POSSIBILITIES EOS / EWS				
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

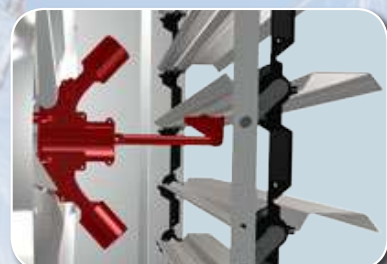
DIRECT-DRIVEN EXHAUST FAN



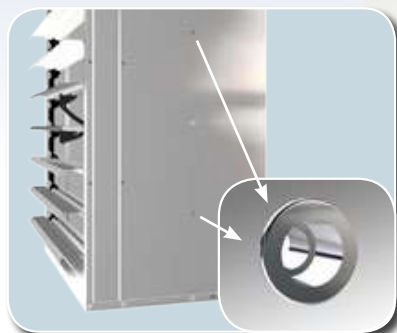
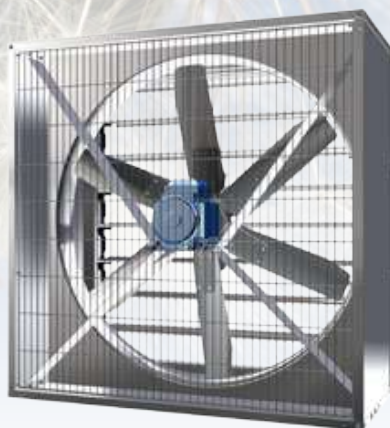
EWD exhaust fan is available in 26", 31" and 37". The direct drive ensures a greater efficiency by reducing energy losses. The patented centrifugal opening system guarantees a complete shutter opening already at 40% of the nominal rotation speed. Thanks to the completely redesigned opening system of EWD fans, the noise level has been reduced and the fan efficiency has been increased. The wallhousing is available in galvanized or stainless steel (Aeternum 31" only) for the maximum corrosion resistance.



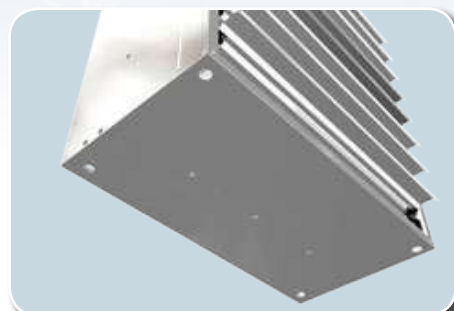
Models 26 and 37



Model 31



Fixing threaded bush (M8)



Bottom panel with 4 practical water discharge holes

EWD 26 - 31 - 37

Model	Voltage*	Frequency	Propeller rotation speed (0 Pa - 0 inH ₂ O)	Air flow				Absorbed power (0 Pa - 0 in H ₂ O)	Absorbed power (25 Pa - 0.10 inH ₂ O)	Specific power input (0 Pa - 0 inH ₂ O)	Specific power input (25 Pa - 0.10 inH ₂ O)	Ventilating Efficiency Ratio (0 Pa - 0 inH ₂ O)	Ventilating Efficiency Ratio (25 Pa - 0.10 inH ₂ O)
				0 Pa 0 inH ₂ O	12 Pa 0.05 inH ₂ O	25 Pa 0.10 inH ₂ O	50 Pa 0.20 inH ₂ O						
EWD 26	Δ 220-240 V Y 380-420 V	50 Hz	944 RPM	5530 cfm	5300 cfm	5120 cfm	4650 cfm	410 W	460 W	43,5 W/(1000m ³ /h)	52,2 W/(1000m ³ /h)	13,5 cfm/W	11,3 cfm/W
				9400 m ³ /h	9000 m ³ /h	8700 m ³ /h	7900 m ³ /h						
	Δ 220-270 V Y 380-460 V	60 Hz	1149 RPM	5530 cfm	5240 cfm	5120 cfm	4650 cfm	440 W	455 W	43,5 W/(1000m ³ /h)	52,2 W/(1000m ³ /h)	13,5 cfm/W	11,3 cfm/W
				9400 m ³ /h	8900 m ³ /h	8700 m ³ /h	7900 m ³ /h						
EWD 31	Δ 220-240 V Y 380-420 V	50 Hz	935 RPM	8900 cfm	8600 cfm	8250 cfm	7470 cfm	630 W	690 W	41,7 W/(1000m ³ /h)	49,0 W/(1000m ³ /h)	14,1 cfm/W	12,0 cfm/W
				15100 m ³ /h	14600 m ³ /h	14000 m ³ /h	12700 m ³ /h						
	Δ 220-270 V Y 380-460 V	60 Hz	1137 RPM	8650 cfm	8300 cfm	8000 cfm	7420 cfm	630 W	680 W	42,9 W/(1000m ³ /h)	50,0 W/(1000m ³ /h)	13,7 cfm/W	11,8 cfm/W
				14700 m ³ /h	14100 m ³ /h	13600 m ³ /h	12600 m ³ /h						
EWD 37	Δ 220-240 V Y 380-420 V	50 Hz	934 RPM	10590 cfm	99500 cfm	9420 cfm	8300 cfm	610 W	680 W	34,0 W/(1000m ³ /h)	42,8 W/(1000m ³ /h)	17,3 cfm/W	13,8 cfm/W
				18000 m ³ /h	16900 m ³ /h	16000 m ³ /h	14100 m ³ /h						
	Δ 220-270 V Y 380-460 V	60 Hz	1129 RPM	11470 cfm	10880 cfm	10240 cfm	8820 cfm	690 W	750 W	35,3 W/(1000m ³ /h)	43,5 W/(1000m ³ /h)	16,7 cfm/W	13,5 cfm/W
				19500 m ³ /h	18500 m ³ /h	17400 m ³ /h	15000 m ³ /h						

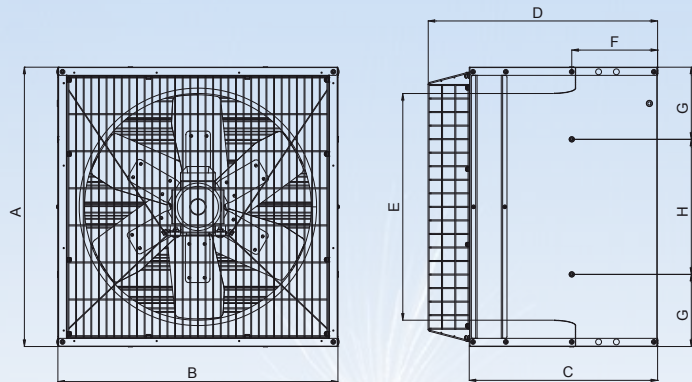
*Single phase motors, different voltage and speed regulable motors over transformers are available on request.

Note: Preliminary data related to fan tested with safety net and louver - Test method ISO5801/ ANSI AMCA 210-07

Dimensions and loading possibilities

DIMENSION	EWD 26	EWD 31	EWD 37
Dimension - A - [mm]	790	905	1025
Dimension - B - [mm]	790	907	1025
Dimension - C - [mm]	530	530	530
Dimension - D - [mm]	645	645	645
Dimension - E - [Ø mm]	638	780	930
Dimension - F - [mm]	241,5	252,5	226,5
Dimension - G - [mm]	203	225	255
Dimension - H - [mm]	380	455	513
Sound pressure level Lpa* [dB]	59	66	74
Weight [kg]	41	48	53

* Measurement surface according to UNI EN ISO 3744



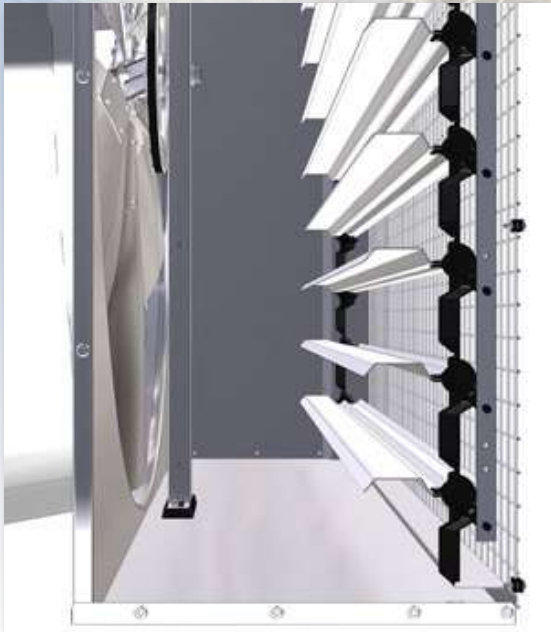
LOADING POSSIBILITIES EWD ON PALLET	EWD 26		EWD 31	EWD 37
Fully assembled version (FA)	Type A	Type B	Type A	Type A
LxWxH - mm	800x800x1800	800x1330x1800	910x1070x1950	1030x1060x1800
N° pieces	3	5	4	3
Gross weight - kg	131	212	200	170

LOADING POSSIBILITIES							
Fully assembled version (FA)				Knock-down version (KD)			
	EWD 26	EWD 31	EWD 37		EWD 26	EWD 31	EWD 37
Container 20ft	70	48	40	Container 20ft	300	280	250
Container 40ft	150	104	88	Container 40ft	600	560	450
Container 40ft HC	180	130	88	Truck	600	600	500
Truck STD / Truck H 2,60	190 / 228	112 / 140	104				

CONE FAN



Exhaust fan with cone specifically designed for high energy cost markets . Available only in 53", the wallhousing is made of galvanized steel. The shutter is on the suction side and the shutter blades are made of aluminium. The product is tested in our **PERI**lab and certified by BessLab.

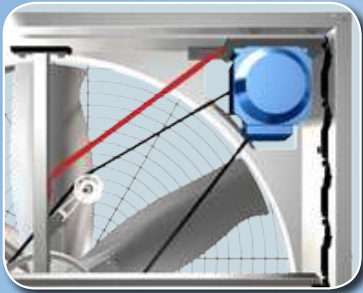


Open shutter

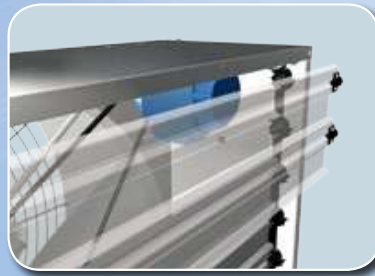


Closed shutter

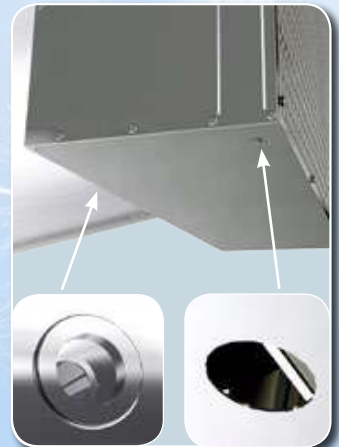
FEATURES AND ADVANTAGES



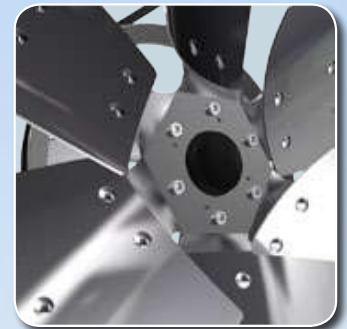
Sturdy and practical motor fixing system



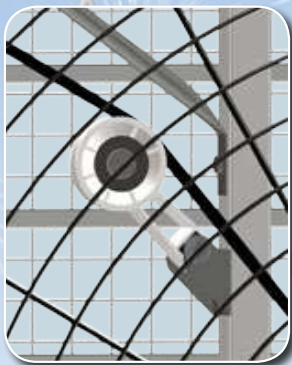
Removable shutter blades for easy maintenance/inspection



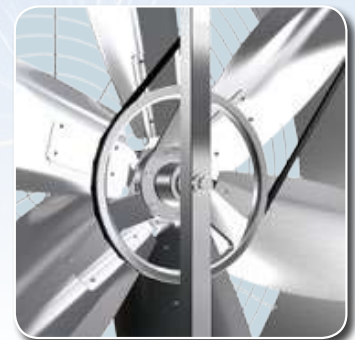
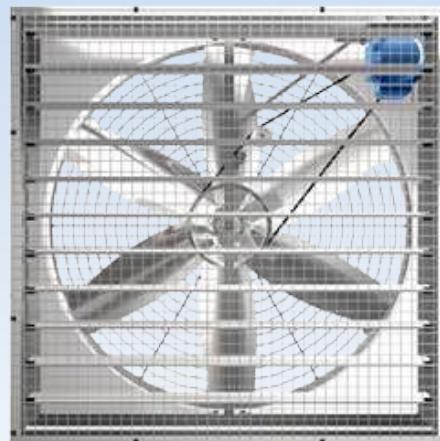
Bottom panel with practical water discharge holes. Fixing threaded bush (M8)



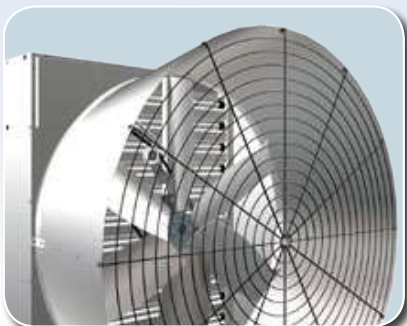
Propeller hub in steel with corrosion protection



Automatic belt tensioner



Aerodynamic central pulley



Safety net on cone side



Safety net on air intake side

EOC 53 - BELT DRIVE - Test number Bess Lab: 12359; 12360; 12299; 12298; 12296; 12297

Modell	Voltage**	Frequency	Propeller rotation speed (0 Pa - 0 inH ₂ O)	Air flow				Absorbed power* (0 Pa - 0 inH ₂ O)	Absorbed power* (25 Pa - 0.10 inH ₂ O)	Specific power input* (0 Pa - 0 inH ₂ O)	Specific power input* (25 Pa - 0.10 inH ₂ O)	Ventilating Efficiency Ratio* (0 Pa - 0 inH ₂ O)	Ventilating Efficiency Ratio* (25 Pa - 0.10 inH ₂ O)
				0 Pa	12 Pa	25 Pa	50 Pa						
				0 inH ₂ O	0.05 inH ₂ O	0.10 inH ₂ O	0.20 inH ₂ O						
EOC 53/1,5*	Δ 220-240 V Y 380-420 V	50 Hz	481 RPM	25.900 cfm	24.900 cfm	24.000 cfm	21.400 cfm	1431 W	1559 W	32 W/(1000m ³ /h)	38 W/(1000m ³ /h)	18,1 cfm/W	15,4 cfm/W
				44.100 m ³ /h	42.400 m ³ /h	40.700 m ³ /h	36.300 m ³ /h						
EOC 53/1*	Δ 220-240 V Y 380-460 V	60 Hz	486 RPM	26.300 cfm	25.400 cfm	24.400 cfm	21.800 cfm	1528 W	1650 W	34 W/(1000m ³ /h)	40 W/(1000m ³ /h)	17,2 cfm/W	14,8 cfm/W
				44.800 m ³ /h	43.200 m ³ /h	41.400 m ³ /h	37.100 m ³ /h						
EOC 53/1*	Δ 220-240 V Y 380-420 V	50 Hz	399 RPM	22.000 cfm	20.500 cfm	19.200 cfm	15.500 cfm	940 W	1056 W	25 W/(1000m ³ /h)	32 W/(1000m ³ /h)	23,4 cfm/W	18,2 cfm/W
				37.400 m ³ /h	34.900 m ³ /h	32.600 m ³ /h	26.300 m ³ /h						
EOC 53/1*	Δ 220-270 V Y 380-460 V	60 Hz	399 RPM	22.000 cfm	20.600 cfm	19.300 cfm	15.600 cfm	880 W	1010 W	23 W/(1000m ³ /h)	31 W/(1000m ³ /h)	25,1 cfm/W	19,1 cfm/W
				37.500 m ³ /h	34.900 m ³ /h	32.700 m ³ /h	26.600 m ³ /h						

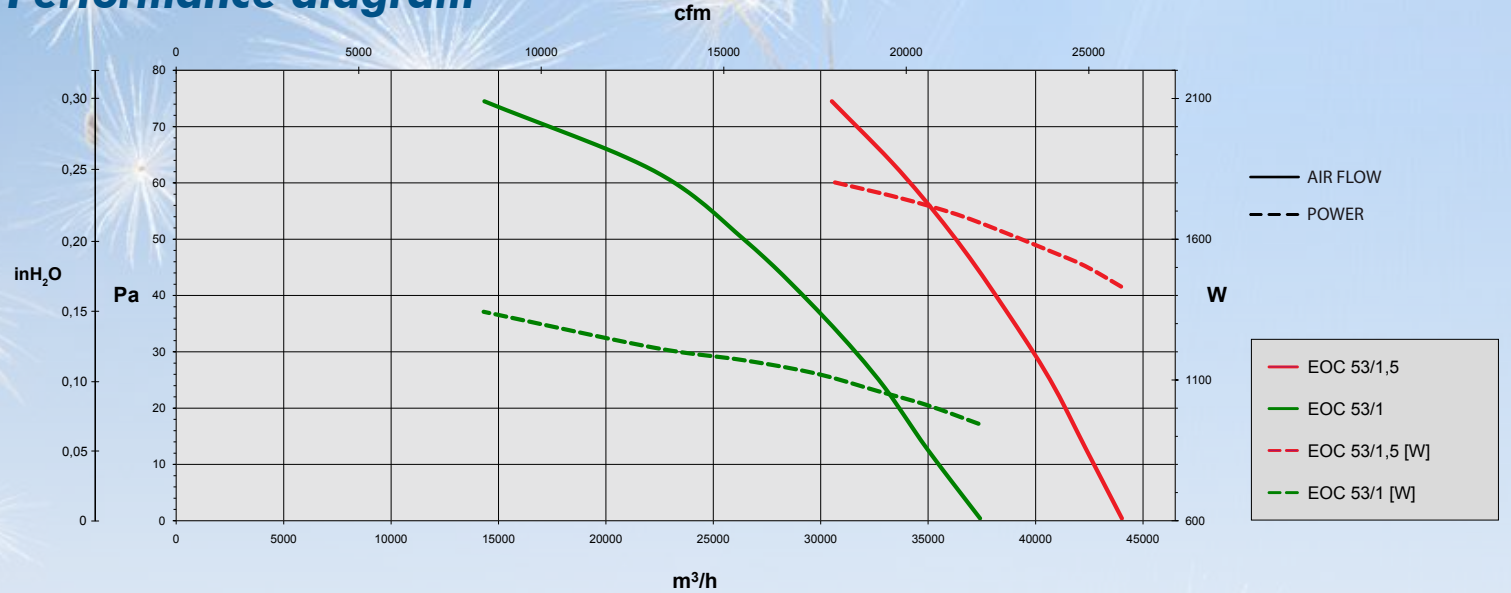
*According to ASABE/S565 OCT2005 at Certifying Laboratory ANSI/AMCA 210-07 test protocol ANSI/ASHRAE 51-07.

**Single phase motors, different voltage and speed regulable motors over transformers are available on request.

Note: All fans tested with shutter and net.



Performance diagram



Dimensions and loading possibilities

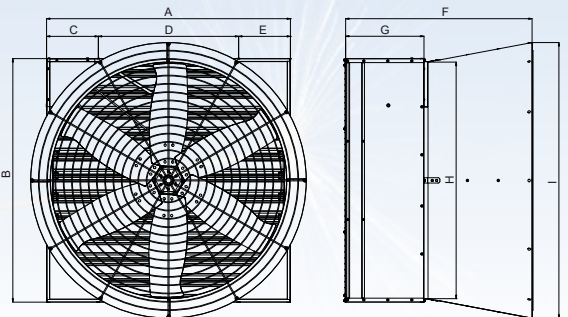
CHARACTERISTICS	EOC 53
Sound pressure level Lpa* [dB]	70.7 – 65.3
Weight [kg]	98-89

* Measurement surface according to UNI EN ISO 3744.

LOADING POSSIBILITIES ON PALLET	EOC 53
Fully assembled version (FA)*	
LxWxH - mm	2290x1500x2100
N° pieces	5
Gross weight - kg	600

LOADING POSSIBILITIES EOC		
	Fully assembled version (FA)*	Knock-down version (KD)
Container 20ft	20	120
Container 40ft	40	240
Truck	45	240

*Fan body and shutter are delivered pre-assembled, whereas the cone (in sectors), brackets and front cone safety nets are delivered separately in flat pack form.



DIMENSION	EOC 53
Dimension - A - [mm]	1382
Dimension - B - [mm]	1380
Dimension - C - E [mm]	293.5
Dimension - D - [mm]	795
Dimension - F - [mm]	1060
Dimension - G - [mm]	444
Dimension - H - [mm]	1340
Dimension - I - [mm]	1562

Versions, supplements and accessories

Shutters versions

EOS

EWS

EWD

EOC

STANDARD galvanised steel



AS
aluminium shutter

STANDARD galvanised steel

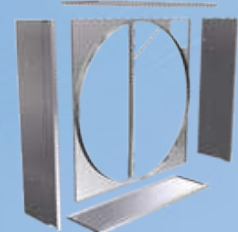


AETERNUM
structure, propeller and shutter
in AISI 304 stainless steel
(only for models 31 and 53)

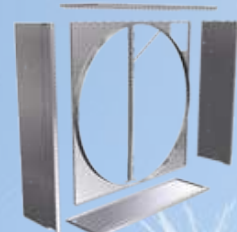
STANDARD
aluminium alloy



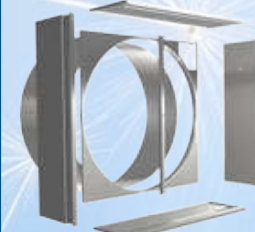
Ventilators versions



STANDARD
galvanised steel

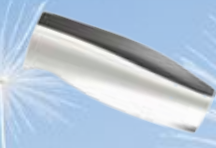


STANDARD
galvanised steel
AETERNUM
structure, net and shutter in
AISI 304
stainless steel
(only for models 31 and 53)



STANDARD
galvanised steel

Blades versions



ALU
aluminium alloy
*(preferred version for its
lightness and strength)*
(26-31-37-42 models only available in ALU version)

GALV
galvanised steel

INOX
stainless steel AISI 304

Motors



model	EOS	EWS/EWD	EOC
MON	optional	optional	optional
3-phase	standard	standard	standard

All three-phase motors can be used with inverter control.

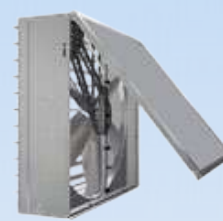
Accessories



FIX fixing strip for
wall installation



LTP
light filter



WPC insulating cover for
long non-working period



microcomputer
modules



TPR
magnetothermic
switch



TPU
motorstarter

A wide variety of applications



All data in this catalogue are indicative and are subject to change without prior notice.



Distributors / Dealers:



TERMOTECNICA PERICOLI S.r.l.
regione Rapalline, 44 - 17031 Albenga, Italia Tel. 0182 589006 Fax 0182 589005
www.pericoli.com pit@pericoli.com

PERICOLI CENTRO AMERICA S.A. de C.V.
Armando Birlain Shaffler, 2001 Piso 8C, Torre 1, Central Park, Col. Centro Sur 76090 Queretaro QRO - MEXICO Tel. +52 442 209 5098
www.pericoli-centroamerica.com pca@pericoli.com

PERICOLI ASIA PACIFIC Sdn. Bhd.
14, Jalan Sejahtera 25/124, Axis Premier Industrial Park, Section 25, 40400 Shah Alam, Selangor – Malaysia Tel: +603 – 5122 3880 - Fax: +603 – 5122 5899
www.pericoli-asiapacific.com pap@pericoli.com

PERICOLI MIDDLE EAST
3rd floor – 16 Mahara – Opposite Makka Mall, Amman – Jordan Tel. +962 6 5854940 Fax: +962 6 5864849
www.pericoli.com pme@pericoli.com

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