

VENTILATION

# AIR CIRCULATION FANS FOR AGRICULTURAL AND INDUSTRIAL APPLICATIONS



since  
**1967**

 **TERMOTECNICA®**  
**PERICOLI**

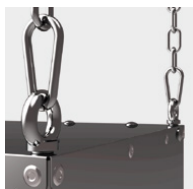


## BELT-DRIVEN AIR CIRCULATION FAN

Air circulation fan specifically designed for high airflow capacity. Available in 42" and 53", its main features are great efficiency and low maintenance costs. The fan housing is available in galvanized or stainless steel (Aeternum 53" only) for maximum corrosion resistance and the impeller with 3 or 6 blades. The entire line is tested in our PERIlab and certified by BessLab.



Sturdy and practical motor fixing system



4 secure suspension eyes included



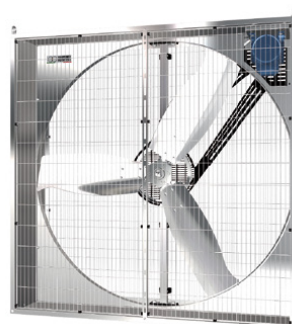
Propeller hub in steel with corrosion protection



Fixing threaded bush (M8)



Easy opening guards



# Technical features



## EOR 53 - AMCA 230-12 test number Bess Lab: C12073; C12074; C12072; C12071; C12069; C12070; C12078; C12079

Model	Voltage**	Frequency	Thrust	Propeller rotation speed	Absorbed power	Thrust efficiency ratio	Air flow	Air flow*	Specific power input	Efficacy
EOR 53/2	Δ 220-240 V Y 380-420 V	50 Hz	26,44 lbf	483 RPM	1,719 kW	15,40 lbf/kW	25.100 ccfm	35.500 ccfm	40,35 W/(1000 m³/h)	14,6 ccfm/W
			11,99 kgf			6,98 kgf/kW	42.600 m³/h	60.300 m³/h		
	Δ 220-270 V Y 380-460 V	60 Hz	28,87 lbf	500 RPM	1,833 kW	15,70 lbf/kW	26.200 ccfm	37.150 ccfm	41,19 W/(1000 m³/h)	14,3 ccfm/W
			13,10 kgf			7,14 kgf/kW	44.500 m³/h	63.100 m³/h		
EOR 53/1,5	Δ 220-240 V Y 380-420 V	50 Hz	22,89 lbf	445 RPM	1,361 kW	16,80 lbf/kW	23.400 ccfm	33.050 ccfm	34,23 W/(1000 m³/h)	17,2 ccfm/W
			10,38 kgf			7,63 kgf/kW	39.750 m³/h	56.150 m³/h		
	Δ 220-270 V Y 380-460 V	60 Hz	21,86 lbf	446 RPM	1,348 kW	16,20 lbf/kW	22.800 ccfm	32.300 ccfm	34,8 W/(1000 m³/h)	16,9 ccfm/W
			9,92 kgf			7,36 kgf/kW	38.700 m³/h	54.850 m³/h		
EOR 53/1	Δ 220-240 V Y 380-420 V	50 Hz	18,53 lbf	398 RPM	1,015 kW	18,30 lbf/kW	21.000 ccfm	29.750 ccfm	28,4 W/(1000 m³/h)	20,7 ccfm/W
			8,41 kgf			8,28 kgf/kW	35.700 m³/h	50.550 m³/h		
	Δ 220-270 V Y 380-460 V	60 Hz	18,86 lbf	398 RPM	1,038 kW	18,20 lbf/kW	21.200 ccfm	30.050 ccfm	28,8 W/(1000 m³/h)	20,4 ccfm/W
			8,55 kgf			8,24 kgf/kW	36.000 m³/h	51.050 m³/h		
EOR 53/1 - 3	Δ 220-240 V Y 380-420 V	50 Hz	18,23 lbf	450 RPM	0,953 kW	19,10 lbf/kW	20.800 ccfm	29.400 ccfm	27 W/(1000 m³/h)	21,8 ccfm/W
			8,27 kgf			8,68 kgf/kW	35.300 m³/h	49.950 m³/h		
	Δ 220-270 V Y 380-460 V	60 Hz	18,53 lbf	455 RPM	0,989 kW	18,70 lbf/kW	29.900 ccfm	29.650 ccfm	27,8 W/(1000 m³/h)	21,1 ccfm/W
			8,41 kgf			8,50 kgf/kW	35.500 m³/h	50.350 m³/h		

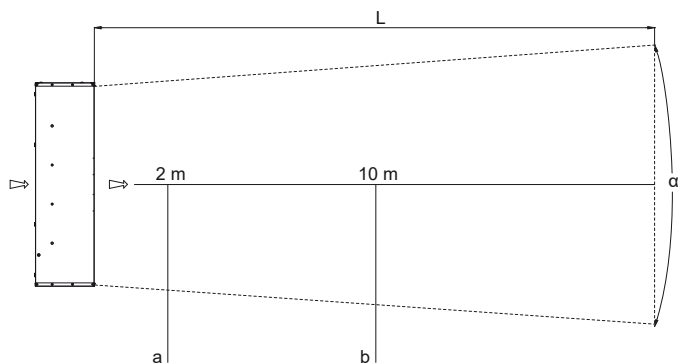
## EOR 42 - AMCA 230-12 test number Bess Lab: C12082; C12083; C12084; C12085

Model	Voltage**	Frequency	Thrust	Propeller rotation speed	Absorbed power	Thrust efficiency ratio	Air flow	Air flow*	Specific power input	Efficacy
EOR 42/1	Δ 220-240 V Y 380-420 V	50 Hz	16,35 lbf	584 RPM	0,957 kW	17,10 lbf/kW	15.600 ccfm	22.100 ccfm	36,1 W/(1000 m³/h)	16,3 ccfm/W
			7,42 kgf			7,75 kgf/kW	26.500 m³/h	37.550 m³/h		
	Δ 220-270 V Y 380-460 V	60 Hz	18,28 lbf	608 RPM	1,15 kW	15,90 lbf/kW	16.500 ccfm	23.300 ccfm	41,07 W/(1000 m³/h)	14,3 ccfm/W
			8,29 kgf			7,21 kgf/kW	28.000 m³/h	39.600 m³/h		
EOR 42/0,75	Δ 220-240 V Y 380-420 V	50 Hz	12,85 lbf	515 RPM	0,725 kW	17,70 lbf/kW	13.800 ccfm	19.550 ccfm	30,98 W/(1000 m³/h)	19 ccfm/W
			5,83 kgf			8,04 kgf/kW	23.400 m³/h	33.200 m³/h		
	Δ 220-270 V Y 380-460 V	60 Hz	13,65 lbf	524 RPM	0,743 kW	18,40 lbf/kW	14.200 ccfm	20.100 ccfm	30,8 W/(1000 m³/h)	19,1 ccfm/W
			6,19 kgf			8,33 kgf/kW	24.100 m³/h	34.150 m³/h		

\*Using ANSI/AMCA Standard 230-99 method.

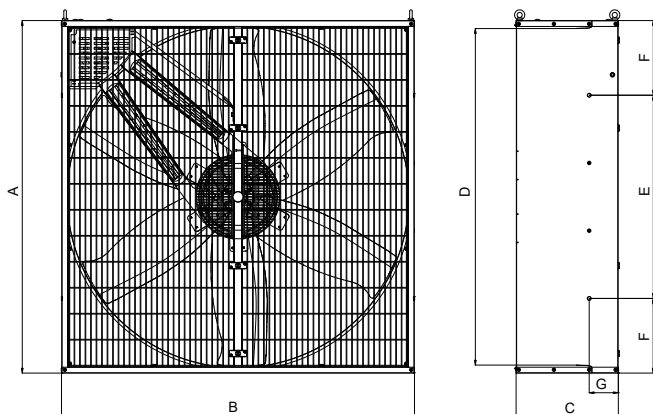
\*\*Single phase motors, different voltage and speed regulable motors over transformers are available on request.

**Note:** tested with two safety nets.



Air outlet cone				
Model	$\alpha$	L (Air speed 0,2 m/s)	Air speed (2 m)	Air speed (10 m)
EOR 53/2	56°	43 m	9 m/s	3,4 m/s
EOR 53/1,5	55°	40 m	8,9 m/s	3,2 m/s
EOR 53/1	54°	29 m	6,5 m/s	2,6 m/s
EOR 53/1 - 3	50°	28 m	5,9 m/s	2,5 m/s
EOR 42/1	55°	33 m	4,7 m/s	3 m/s

### Dimensions and loading possibilities



Dimensions	EOR 53	EOR 42
Dimension - A - [mm]	1380	1145
Dimension - B - [mm]	1380	1145
Dimension - C - [mm]	400	400
Dimension - D - [mm]/[inch]	1340 / 53	1060 / 42
Dimension - E - [mm]	795	692
Dimension - F - [mm]	292	225
Dimension - G - [mm]	114	112
Sound pressure level Lpa [dB]*	65,8 / 75,5	68,8 / 73,4
Weight [kg]**	80-69	54-50

\*Measurement surface according to UNI EN ISO 3744.

\*\*The weight depends on choosed configuration.

Loading possibilities fully assembled version (FA)		
Model	EOR 53	EOR 42
Container 20ft	28	50
Container 40ft	58	102
Container 40ft HC	66	124
Truck	74	140
Pallet 1200x1145x2100	---	5
Pallet 1400x1400x2150	5	---

Loading possibilities knock-down version (KD)		
Model	EOR 53	EOR 42
Container 20ft	180	250
Container 40ft	360	450
Container 40ft HC	360	450
Truck	360	500

## DIRECT-DRIVEN AIR CIRCULATION FAN

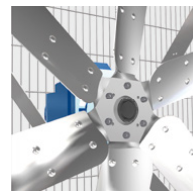
ERD



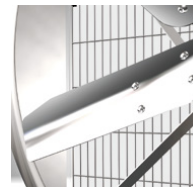
This air circulation fan - currently available in 31" and 37" - uses a direct-driven system that provides greater efficiency by reducing energy losses and also a substantial lowering of the management and maintenance costs. Furthermore, in an environment where a good destratifier is used, greater energy savings result from an improved temperature homogeneity. The fan housing is available in galvanized or stainless steel (Aeternum 31" only) for the maximum corrosion resistance and the impeller is manufactured in aluminum alloy "Peraluman".



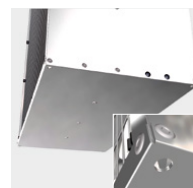
4 secure suspension eyes included



Direct drive



Aerodynamic blades in aluminium alloy



Bottom panel with 4 practical water discharge holes

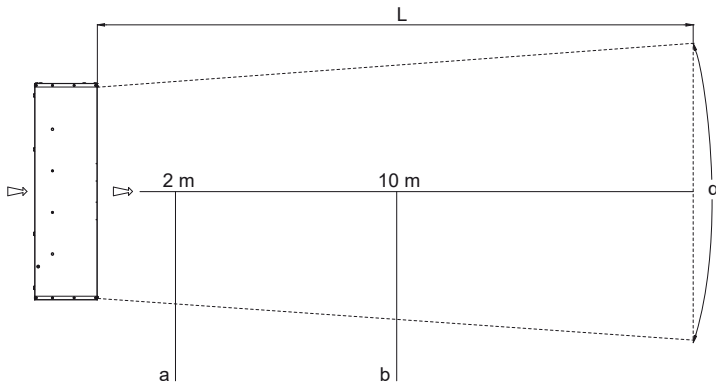
### ERD 31 - ERD 37 using method AMCA 230-15

Model	Voltage**	Frequency	Thrust	Propeller rotation speed	Consumption efficiency ratio	Thrust efficiency ratio	Air flow		Efficacy
	V	Hz	lbf	rpm	W	lbf/kW	m³/h	m³/h	
							ccfm	ccfm	
ERD 31/0,75	Δ 220-240 Y 380-420	50	11	935	711	15,6	15700	22.200	13
							9250	13.100	
	Δ 220-270 Y 380-460	60	12	1130	815	14,8	16400	23.200	11,9
							9600	13.550	
ERD 37/0,75	Δ 220-240 Y 380-420	50	11,6	930	698	16,6	19200	27.150	16,2
							11300	16.000	
	Δ 220-270 Y 380-460	60	12,8	1130	767	16,7	20200	28.500	15,5
							11900	16.800	

\*Using ANSI/AMCA Standard 230-99 method.

\*\*Single phase motors and different voltage are available on request.

**Note:** tested with two safety nets.



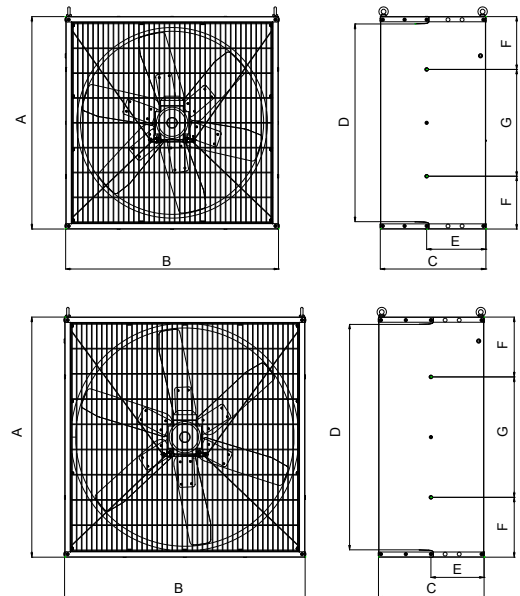
### Air outlet cone

Model	$\alpha$	L (Air speed 0,2 m/s)	Air speed (2 m)	Air speed (10 m)
ERD 31	67	35	4,7	2,3
ERD 37	48	37	5,4	2,6

## Dimensions and loading possibilities

Dimensions	ERD 31	ERD 37
Dimension - A - [mm]	905	1023
Dimension - B - [mm]	907	1025
Dimension - C - [mm]	483	483
Dimension - D - [Ø mm]	780	930
Dimension - E - [mm]	252.5	226.5
Dimension - F - [mm]	225	255
Dimension - G - [mm]	455	513
Sound pressure level Lpa* [dB]	73,2	74,4
Weight [kg]	46	48

\*Measurement surface according to UNI EN ISO 3744. fig C.7



### Loading possibilities on pallet

Fully assembled version (FA)	ERD 31	ERD 37
LxWxH [mm]	910x980x1950	1030x980x2180
N° pieces	4	4
Gross weight [kg]	204	210

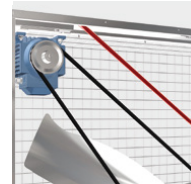
### Loading possibilities

Fully assembled version (FA)	ERD 31	ERD 37	Knock-down version (KD)	ERD 31	ERD 37
Container 20ft	48	44	Container 20ft	280	250
Container 40ft	104	92	Container 40ft	560	450
Container 40ft HC	130	92	Truck	600	500
Truck STD	116	104			

# SIMPLE AND COST EFFECTIVE BASKET FAN



This circulation fan meets the needs of those asking for a simple and cost effective fan mainly used for breeding farms. Available in 53'' only, it is well-known for its light structure and its easy installation. The product is tested in our PERIlab and certified by BessLab.



Sturdy and practical motor fixing system



4 secure suspension eyes included

## Technical features, dimensions and loading possibilities

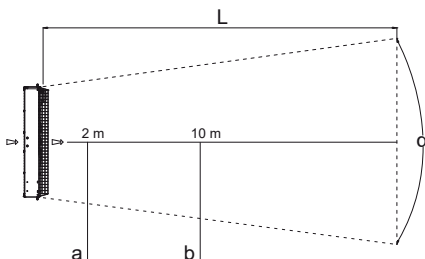
### BKF 53 - AMCA 230-12 test number Bess Lab.: C12393; C12394

Model	Impeller Ø	Voltage*	Frequency	Thrust	Propeller rotation speed	Assorbed power	Thrust efficiency ratio	Air flow	Air flow**	Specific power input	Efficacy
BKF 53/1	52,10 inch 1.323 mm	Δ 220-240 V Y 380-420 V	50 Hz	14,18 lbf	446 RPM	0,924 kW	15,30 lbf/kW	18.500 ccfm	26.150 ccfm	29,4 W/(1000 m³/h)	20 ccfm/W
				6,43 kgf				31.400 m³/h	44.430 m³/h		
		Δ 220-270 V Y 380-460 V	60 Hz	14,12 lbf	443 RPM	0,911 kW	15,50 lbf/kW	18.400 ccfm	26.100 ccfm	29,1 W/(1000 m³/h)	20,2 ccfm/W
				6,40 kgf				31.300 m³/h	44.350 m³/h		

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

\*\*Using ANSI/AMCA Standard 230-99 method.

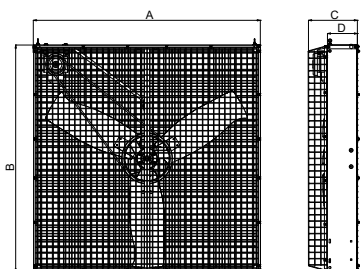
Note: tested with two safety nets.



Air outlet cone				
Model	α	L (Air speed 0,2 m/s)	Air speed (2 m)	Air speed (10 m)
BKF 53/1	65°	23 m	5,7 m/s	2,2 m/s

Features		
Model	Sound pressure level Lpa [dB]*	Weight
BKF 53/1	70,3 dB	43

\*Measurement surface according to UNI EN ISO 3744, pic C.7



Dimensions	
Dimension - A - [mm]	1380
Dimension - B - [mm]	1380
Dimension - C - [mm]	300
Dimension - D - [mm]	180

Loading possibilities		
	Fully assembled version (FA)	Knock-down version (KD)
<b>Model</b>	<b>BKF 53</b>	<b>BKF 53</b>
Container 20ft	37	180
Container 40ft	77	360
Truck	93	360
Pallet 1200x1400x1550	4	---
Pallet 1400x1400x2150	6	---

This air circulation fan, currently available in 31", uses a direct-driven system that provides greater efficiency by reducing energy losses and also a substantial lowering of the management and maintenance costs. Furthermore, if used as destratifier, greater energy savings result from an improved temperature homogeneity. The product is tested in our PERlab.



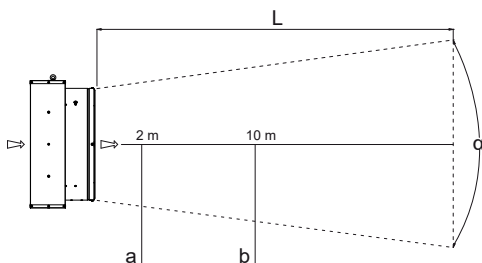
**SK** kit (optional) safety net for propeller, round air diffuser outlet preset for installation of polyethylene duct



### Technical features, dimensions and loading possibilities

FJT 31						
Model	Impeller Ø	Voltage*	Frequency	Propeller rotation speed	Absorbed power	Air flow
FJT 31	31 inch 775 mm	Δ 220-240 V Y 380-420 V	50 Hz	939 RPM	620 kW	15.700 m³/h 9.250 cfm
		Δ 220-270 V Y 380-460 V	60 Hz	1144 RPM	643 kW	

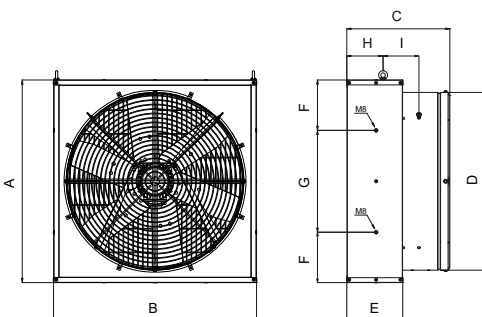
\*Single phase motors, different voltage are available on request.  
**Note:** tested with two safety nets.



Air outlet cone				
Model	α	L (Air speed 0,2 m/s)	Air speed (2 m)	Air speed (10 m)
FJT 31	43°	45 m	7,5 m/s	1,4 m/s

Features		
Model	Sound pressure level Lpa [dB]*	Weight
FJT 31	68,4 dB	39

\*Measurement surface according to UNI EN ISO 3744, pic C.7



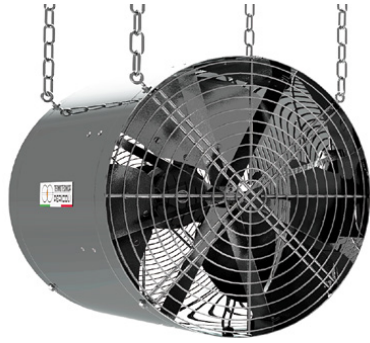
Dimensions	FJT 31
Dimension - A - [mm]	905
Dimension - B - [mm]	907
Dimension - C - [mm]	452
Dimension - D - [Ø mm]	800
Dimension - E - [mm]	250
Dimension - F - [mm]	225
Dimension - G - [mm]	455
Dimension - H - [mm]	162
Dimension - I - [mm]	160

Loading possibilities	Loading possibilities	
	Fully assembled version (FA)	Knock-down version (KD)
	FJT 31	FJT 31
Container 20ft	60	200
Container 40ft	130	450
Truck	140	600
Pallet 1000x1000x2000	4	---

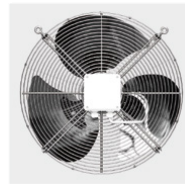


## CYLINDRICAL AIR CIRCULATION FAN

ACF



**ACF** line is the ideal product whenever air displacement is required. It is available in 18", 21" and 26" with wall-housing in galvanized steel or stainless steel for maximum corrosion resistance. Produced with highly resistant materials, it has been designed in order to ensure high energy efficiency and excellent versatility. ACF ensures low noise levels to grant productive labor conditions for the workers. The entire line is tested in our PERIlab and certified by BessLab.



Direct drive



4 practical eyelets for easy suspension



Aerodynamic blades in aluminium alloy



Double safety netting

### ACF 18 - AMCA 230-12 test number Bess Lab: C09053; C09052

Model	Diameter Ø	Voltage	Frequency	Thrust	Propeller speed rotation	Power consumption	Thrust efficiency ratio	Air flow	Air flow*	Specific power input	Efficacy
ACF 18	18 inch 457 mm	200-230 V	50 Hz	1,27 lbf	924 RPM	122 W	10,40 lbf/kW	3.180 m³/h	4.500 m³/h	38,36 W/(1000 m³/h)	15,3 ccfm/W
				0,58 kgf			4,72 kgf/kW	1.870 ccfm	2.650 ccfm		
			60 Hz	1,39 lbf	1.079 RPM	147 W	9,45 lbf/kW	3.310 m³/h	4.690 m³/h	44,41 W/(1000 m³/h)	13,3 ccfm/W
				0,63 kgf			4,29 kgf/kW	1.950 ccfm	2.760 ccfm		

### ACF 21 - AMCA 230-12 test number Bess Lab: C15048; C15051

Model	Diameter Ø	Voltage**	Frequency	Thrust	Propeller speed rotation	Power consumption	Thrust efficiency ratio	Air flow	Air flow*	Specific power input	Efficacy
ACF 21	20 inch 508 mm	Δ 220-240 V Y 380-420 V	50 Hz	3,09 lbf	1460 RPM	236 W	13,1 lbf/kW	5.386 m³/h	7.620 m³/h	43,81 W/(1000 m³/h)	13,4 ccfm/W
				1,40 kgf				3.170 ccfm	4.480 ccfm		
		Δ 220-270 V Y 380-460 V	60 Hz	4,20 lbf	1690 RPM	357 W	11,8 lbf/kW	6.286 m³/h	8.890 m³/h	56,8 W/(1000 m³/h)	10,4 ccfm/W
				1,90 kgf				3.700 ccfm	5.230 ccfm		

### ACF 26 - AMCA 230-12 test number Bess Lab: C150446; C15044

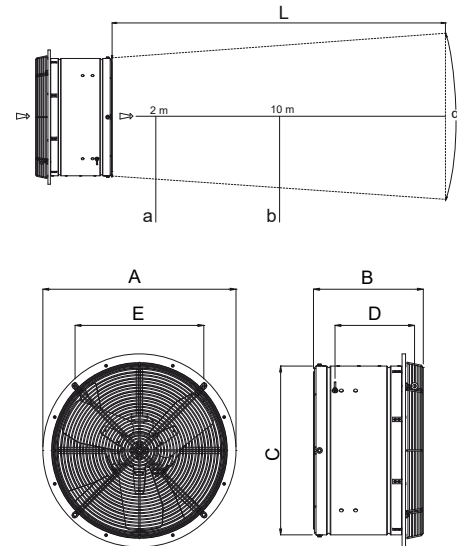
Model	Diameter Ø	Voltage***	Frequency	Thrust	Propeller speed rotation	Power consumption	Thrust efficiency ratio	Air flow	Air flow*	Specific power input	Efficacy
ACF 26	25 inch 635 mm	Δ 220-240 V Y 380-420 V	50 Hz	5,85 lbf	940 RPM	462 W	12,7 lbf/kW	9.276 m³/h	13.120 m³/h	49,8 W/(1000 m³/h)	11,8 ccfm/W
				2,65 kgf				5.460 ccfm	7.720 ccfm		
		Δ 220-270 V Y 380-460 V	60 Hz	5,68 lbf	1120 RPM	417 W	13,6 lbf/kW	9.140 m³/h	12.920 m³/h	45,6 W/(1000 m³/h)	12,9 ccfm/W
				2,57 kgf				5.380 ccfm	7.600 ccfm		

\*Using ANSI/AMCA Standard 230-99 method.

\*\*Single phase motor available on request.

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

**Note:** tested with two safety nets.



### Air outlet cone

Model	α	L	a	b
ACF 26	32°	45 m	5,6 m/s	1,5 m/s
ACF 21	19°	45 m	4,1 m/s	1,7 m/s
ACF 18	42°	28 m	2,7 m/s	1 m/s

### Dimensions

	ACF 18	ACF 21	ACF 26
Dimension - A - [mm]	470	610	732
Dimension - B - [mm]	500	350	400
Dimension - C - [mm]	--	533	654
Dimension - D - [mm]	--	251	286
Dimension - E - [mm]	--	407	494
Sound pressure level Lpa [dB]*	65	67,6	73
Net weight [kg]	12	16	28
Gross weight [kg]	15	18	--
Dimension carton box (LxWxH) [mm]	500x500x530	620x620x370	--

\*Measurement surface according to UNI EN ISO 3744. pic C.7

### Loading possibilities on pallet

Model	18	21	21	26	26
Fully assembled version (FA)		Type A	Type B	Type A	Type B
LxWxH [mm]	980x980x2240	1240x1240x2000	1240x1000x2000	1480x1480x2200	1480x740x2200
N° pieces	16	20	16	20	10
Gross weight [kg]	248	390	320	650	330

### Loading possibilities

Model	Fully assembled version (FA)			Knock-down version (KD)		
	18	21	26	18	21	26
Container 20ft	192	162	100	400	400	300
Container 40ft	384	342	220	800	800	600
Container 40ft HC	384	342	220	800	800	600
Truck	416	360	270 or 324	1.000	1000	800

# VERSIONS, SUPPLEMENTS AND ACCESSORIES

## Blades version

**EOR ERD FJT**



**ALU**  
aluminium alloy  
(preferred version for its  
lightness and strength)

**GALV**  
galvanised steel

**STS**  
stainless steel AISI 430

**INOX**  
stainless steel AISI 304  
(31 - 37- 42 models only available in ALU version)

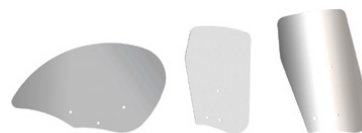
**BKF**

**ALU**  
aluminium alloy



**ACF**

**ALU**  
aluminium alloy



## Fan versions

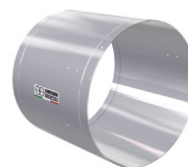


**STANDARD**  
galvanised steel

**AETERNUM**  
structure and nets in  
stainless steel AISI 304  
(only for models 31-53)



**STANDARD**  
galvanised steel



**GALV**  
galvanised steel  
**INOX**  
stainless steel  
AISI 304\*

\*only for model 18

## Motors



	ERD 31-37	EOR 42-53	FJT/BKF
MON	optional	optional	optional
3-phase	standard	standard	standard

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

	18*	21	26
MON	standard	optional	optional
3-phase	---	standard	standard

All three-phase motors can be used with inverter control.  
\*Speed regulable motor over autotransformer.

## Accessories

Humidification and cooling function



Using the SVG fixing bar RWA  
can be assembled on any  
EOR, ERD or BKF.

**RWA**  
+  
**SVG**



Humidification and cooling function



(only for model 26)



microcomputer  
modules



**TPR**  
magnetothermic  
switch



**TPU**  
motorstarter

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



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