

EV

CENTRIFUGAL FANS WITH FORWARD-LINED BLADES SIMPLE EXTRACTION



Applications



AUTOMOTIVE



WELDING

Use

Low-dust air extraction

DESCRIPTION

Single suction centrifugal fan in painted steel metal with galvanized blades, suitable for extraction of air with low dust concentration. The particular low air flow and low pressure allow a wide range of use of EV fans for the extraction of welding fumes (together with extraction arms) to guarantee optimal performance (low energy consumption) with low noise impact.

STRUCTURE

The fan is made of welded steel with adequate thickness. Finishing: painted black. The standard fan is in B5 without motor support frame. Impeller with curved forward-lined blades, statically and dynamically balanced according to ISO Standards, keeping noise and vibrations at minimum levels.

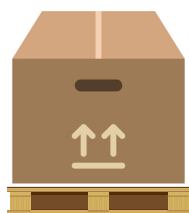
MOTOR

Asynchronous motor, three-phase or single-phase, IP55, according to UNELMEC Standard.

CERTIFICATIONS



PACKING



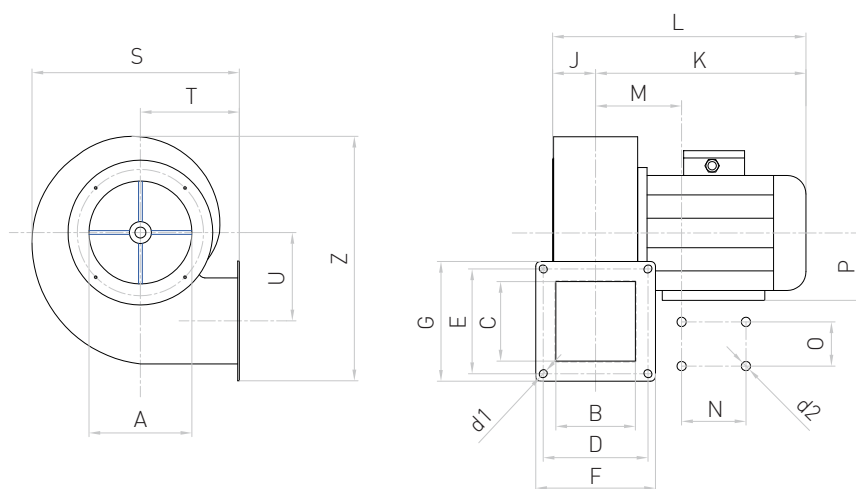
(80x60x70 cm)

TECHNICAL FEATURES

Air flow m ³ /h	Pressure Pa	Impeller		Motor			Fluid temperature	
		Ø min. mm	Ø max. mm	V/Ph/Hz	Poles	IP	Min. °C	Max. °C
From 200 to 3000	From 320 to 1800	130	250	230/1/50 400/3/50-60	2	55	-25	+60

DIMENSIONAL DATA

Model	Motor	Weight Kg F	Weight Kg	Dimensions mm																			
				A	B	C	D	E	d ₁	d ₂	F	G	J	K	L	M	N	O	P	S	T	U	Z
EV15	80 M2	20	16	205	150	150	165	165	7	10	190	190	73	303	377	122	100	125	80	335	148	145	400
EV18	80 M2	25	16	205	150	150	165	165	7	10	190	190	73	303	377	122	100	125	80	335	148	145	400
EV30	90 S2	30	20	162	173	173	194	205	9,5	-	222	233	97	360	440	130	-	-	105	400	180	160	438

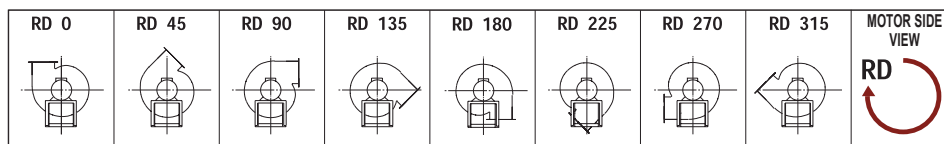


ROTATION DIRECTION

CLOCKWISE ROTATION

DIMENSIONS:

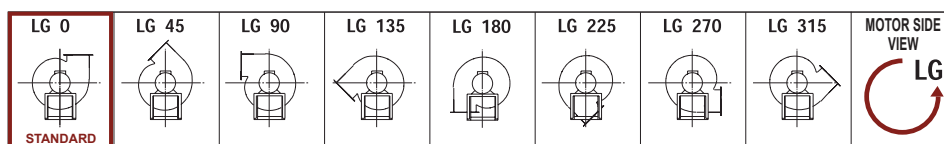
H = RD 0 - RD 45 - RD 90 - RD 135
 H₁ = RD 180 - RD 225
 H₂ = RD 270 - RD 315



ANTI-CLOCKWISE ROTATION

DIMENSIONS:

H = LG 0 - LG 45 - LG 90 - LG 135
 H₁ = LG 180 - LG 225
 H₂ = LG 270 - LG 315



PERFORMANCE TABLE

Model	Power	RPM	Sound level	Total pressure (PT = Pa)																								
				Air flow (v = m³/h)																								
	kW		dB(A)	790	860	950	1040	1130	1220	1310	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300	2400	2500	2600	2700	2800	2900	3000	
EV15	1,1	2850	74,1	1220	1230	1240	1260	1280	1310	1340	1370	1400	1430	1460	1500	-	-	-	-	-	-	-	-	-	-	-	-	
EV18	1,5	2850	74,1	1220	1230	1240	1260	1280	1310	1340	1370	1400	1430	1460	1500	1520	1540	1560	1570	1580	-	-	-	-	-	-	-	
EV30	2,2	2850	77	-	-	-	-	-	-	-	-	-	1800	1750	1700	1650	1620	1530	1550	1500	1440	1400	1340	1300	1260	1240	1200	

The performance data have been measured with suitable instruments in our laboratory.

Performance at 15 °C air temperature with a pressure of 760 mmH₂O.

The indicated air flow and pressure data refer to the installation of the electrical fan with ductwork.

The reported noise level refers to a distance of 1,5 m in free field.

The indicated power values refer to the effective power installed in the fan.

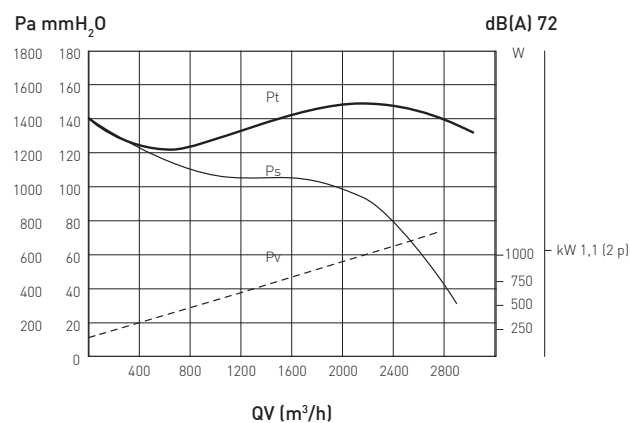
See the performance curves for the correct selection of the model.

PERFORMANCE CURVES

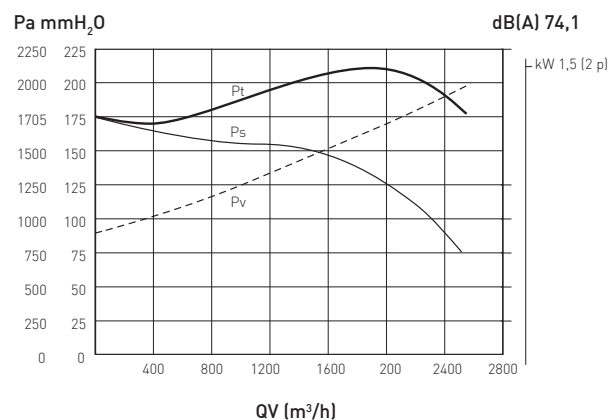
Q = Flow rate expressed in m³/h, m³/s and cfm

Pa = Static pressure expressed in mmH₂O

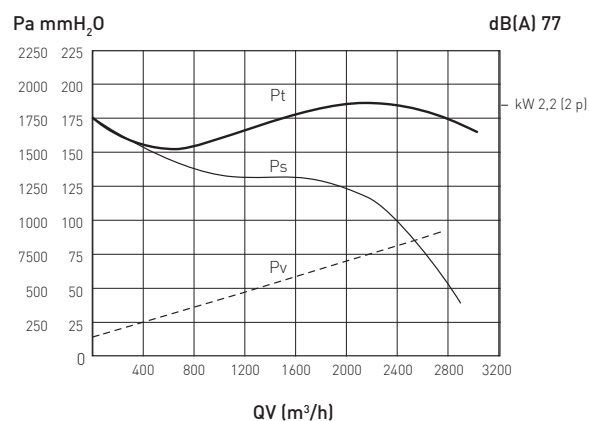
EV 15



EV 18



EV 30





DESCRIPTION

EV 15

Code	Description
EV015020110M00	Centrifugal fan EV15 - 1,1kW 230 V/1Ph/50Hz - Without outlet cone
EV015020110M02	Centrifugal fan EV15 - 1,1kW 230V/1Ph/50Hz - Outlet cone Ø 158 mm for flexible hose
EV015020110M03	Centrifugal fan EV15 - 1,1kW 230V/1Ph/50Hz - Outlet cone Ø 160 mm with antivibration damper
EV015020110M04	Centrifugal fan EV15 - 1,1kW 230V/1Ph/50Hz - Outlet cone Ø 178 mm for flexible hose
EV015020110M05	Centrifugal fan EV15 - 1,1kW 230V/1Ph/50Hz - Outlet cone Ø 180 mm with antivibration damper
EV015020110T00	Centrifugal fan EV15 - 1,1kW 400V/3Ph/50-60Hz - Without outlet cone
EV015020110T02	Centrifugal fan EV15 - 1,1kW 400V/3Ph/50-60Hz - Outlet cone Ø 158 mm for flexible hose
EV015020110T03	Centrifugal fan EV15 - 1,1kW 400V/3Ph/50-60Hz - Outlet cone Ø 160 mm with anti-vibration damper
EV015020110T04	Centrifugal fan EV15 - 1,1kW 400V/3Ph/50-60Hz - Outlet cone Ø 178 mm for flexible hose
EV015020110T05	Centrifugal fan EV15 - 1,1kW 400V/3Ph/50-60Hz - Outlet cone Ø 180 mm with anti-vibration damper

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EV 18

Code	Description
EV018020150M00	Centrifugal fan EV18 - 1,5kW 230V/1Ph/50Hz - Without outlet cone
EV018020150M02	Centrifugal fan EV18- 1,5kW 230V/1Ph/50Hz - Outlet cone Ø 158 mm for flexible hose
EV018020150M03	Centrifugal fan EV18 - 1,5kW 230V/1Ph/50Hz - Outlet cone Ø 160 mm with anti-vibration damper
EV018020150M04	Centrifugal fan EV18 - 1,5 kW 230V/1Ph/50Hz - Outlet cone Ø 178 mm for flexible hose
EV018020150M05	Centrifugal fan EV18 - 1,5kW 230V/1Ph/50Hz - Outlet cone Ø 180 mm with anti-vibration damper
EV018020150T00	Centrifugal fan EV18 - 1,5kW 400V/3Ph/50-60Hz - Without outlet cone
EV018020150T02	Centrifugal fan EV18 - 1,5kW 400V/3Ph/50-60Hz - Outlet cone Ø 158 mm for flexible hose
EV018020150T03	Centrifugal fan EV18 - 1,5kW 400V/3Ph/50-60Hz - Outlet cone Ø 160 mm with anti-vibration damper
EV018020150T04	Centrifugal fan EV18 - 1,5kW 400V/3Ph/50-60Hz - Outlet cone Ø 178 mm for flexible hose
EV018020150T05	Centrifugal fan EV18 - 1,5kW 400V/3Ph/50-60Hz - Outlet cone Ø 180 mm with anti-vibration damper

EV 30

Code	Description
EV030020220M00	Centrifugal fan EV30 - 2,2kW 230V/1Ph/50Hz - Without outlet cone
EV030020220M02	Centrifugal fan EV30 - 2,2kW 230V/1Ph/50Hz - Outlet cone Ø 198 mm for flexible hose
EV030020220T00	Centrifugal fan EV30 - 2,2kW 40 V/3Ph/50-60Hz - Without outlet cone
EV030020220T02	Centrifugal fan EV30 - 2,2kW 400V/3Ph/50-60Hz - Outlet cone Ø 198 mm for flexible hose



ACCESSORIES

SWITCHES AND ELECTRICAL PANELS

Switches and electrical panels	Code	Description
	QEINT32A4P000	Switch disconnecter 32A IP66 lockable, 125x150hx93 mm
	QE2301F022KW0	Single-phase switchboard 230V 50/60Hz 0,37-2,2kW 16A IP55 lockable, 240x340hx170 mm, 2,8 kg. Functions: thermal magnetic protection, self-setting based on connected motors, remote start / stop in centralized system, voltage / current / cosΦ / alarm display, multilingual display
	QE4003F075KW0	Three-phase 4-pole switchboard 400V 50/60Hz 0,55-7,5kW 15A IP55 lockable, 240x340hx170 mm 5,5 kg. Functions: thermal magnetic protection, self-setting based on connected motors, remote start/stop in centralized system, voltage / current / cosΦ / alarms display, multilingual display, phase sequence alarm for motor rotation

FITTINGS

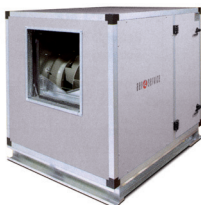
Adapters	Code	Description
	ACC0EV00000010	Squared-round adapter for EV15 / EV18 - Flange 190x190 mm - Ø 160R mm
	ACC0EV00000011	Anti-vibration damper Ø 160R - H. 100 mm
	ACC0EV00000015	Squared-round adapter for EV15 / EV18 - Flange 190x190 mm - Ø 158 mm for flexible hose
	ACC0EV00000020	Squared-round adapter for EV15 / EV18 - Flange 190x190 mm - Ø 180R mm
	ACC0EV00000021	Anti-vibration damper Ø 180R mm - H. 100 mm
	ACC0EV00000025	Squared-round adapter for EV15 / EV18 - Flange 190x190 mm - Ø 178 mm for flexible hose
Wall bracket	Code	Description
	ACC0EV000000100	Wall bracket for EV15 - EV18 - EV30 fan

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SOUNDPROOF BOX

Soundproof box	Code	Description
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BLUEV15180000

Soundproof box for EV15 - EV18 fan - 750x750x750 mm

Silencers	Code	Description
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3121001

Silencer Ø 160 mm - L. 900 mm - With ext. insulation 50 mm - 9 kg

3121002

Silencer Ø 200 mm - L. 900 mm - With ext. insulation 50 mm - 10,5 kg

3121004

Silencer Ø 315 mm - L. 900 mm - With ext. insulation 50 mm - 15 kg

3121005

Silencer Ø 355 mm - L. 900 mm - With ext. insulation 50 mm - 18 kg

3121006

Silencer Ø 400 mm - L. 900 mm - With ext. insulation 50 mm - 21 kg