

ebmpapst

ACmaxx: Versatile, Energy-Saving AC Fans

The ACmaxx product line maintains the same performance over a power input range of 85V to 256V and 50 Hz to 60 Hz. It can be used with worldwide voltages. Improved efficiency means up to 75 percent less power consumption than standard AC fans, resulting in considerable power savings over the entire service life; it also reduces heat in the motor, for a service life up to 85 percent longer than conventional AC fans offer.



ebm-papst ACmaxx family

Features ▶

- 85V to 256V, 50 Hz to 60 Hz
- Extremely efficient motor
- Completely integrated drive and control electronics
- Higher airflow
- Controllable speed

Benefits ▶

- Versatile: can be used with worldwide voltages
- 75 percent lower power consumption
- Service life up to 85 percent longer than for conventional AC fans
- Usable as one-for-one replacement for standard AC fans without structural changes

Applications ▶

- Switch cabinets
- Filter fans
- Welding machines
- Coolers and freezers
- In-line fans for ventilation

Product Specifications ▶

Series	VAC	Voltage Range	Speed (RPM)	Maximum Flow Rate (CFM)	Noise-Free Air (dBA)	Power Consumption (W)	Permanent Ambient Temperature at Maximum Voltage (°C)	Bearings	Mass (g)
AC3200JH	115/230 (50/60 Hz)	85-265	6800	86	55	11	-20 to +70	Ball	345
AC4300H	115/230 (50/60 Hz)	85-265	3400	120	51	11	-20 to +70	Ball	325
AC6100NM	115/230 (50/60 Hz)	85-265	2850	206	50	13.5	-20 to +70	Ball	675
AC6200NM	115/230 (50/60 Hz)	85-265	2850	206	50	14	-20 to +70	Ball	900

Related Information ▶



AC3200JH series



AC4300H series



AC6100NM series



AC6200NM series



Custom Centrifugal Blowers

ebm-papst delivers a powerful line of AC and EC single-inlet, forward-curved centrifugal blowers, incorporating both PSC motors and EC motors in a galvanized housing to offer efficient, quiet solutions for many applications. Versatile, their scroll shape can be optimized to your specifications for airflow and noise. The new blowers are available immediately in 115-230 VAC, 150-770 CFM. The EC version's integrated speed control allows for full modulation of the blower with no motor noise or vibration.

Features ▶

- Customizable scroll housing
- AC and EC versions available
- Galvanized sheet steel housing
- Mounting flange on discharge
- EC version offers integrated speed control

Benefits ▶

- Versatile: custom-built for any application
- Highly efficient motor design
- Easy installation

Applications ▶

- Air conditioners
- Machine cooling
- Space ventilation

Product Specifications ▶

Part Number	Size - Type	Nominal Voltage (VAC)	Hertz	Maximum Flow Rate (CFM)	Noise-Free Air (dBA)	Power Consumption (W)	Maximum Ambient Temperature (°C)	Bearings	Capacitor (µf)
EE1G-115-120-01	Ø 120 mm - AC	115	60	150.9	NA	45.5	60	Ball	5
EE1G-115-140-02	Ø 140 mm - AC	115	60	270	64	195	50	Ball	12
EE1G-230-140-02	Ø 140 mm - AC	230	50/60	290	68	200	50	Ball	4
EE1G-115-180-04	Ø 180 mm - AC	115	50/60	450	64	125/180	50	Ball	16
EE1G-115-180-05	Ø 180 mm - AC	115	60	350	61	152	50	Ball	10
EE1G-115-180-06	Ø 180 mm - AC	115	60	604	NA	251	50	Ball	20
EE1G-230-180-04	Ø 180 mm - AC	230	50/60	450	64	125/180	60	Ball	4
EE1G-230-180-05	Ø 180 mm - AC	230	60	370	62	152	55	Ball	10
EE1G-230-180-06	Ø 180 mm - AC	230	50/60	500	64	125/180	60	Ball	4
EG1G-230-180-03	Ø 180 mm - EC	230	60	770	NA	135	50	Ball	NA
EG1G-230-180-04	Ø 180 mm - EC	230	60	619	NA	109	50	Ball	NA

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Backward-Curved Motorized Impellers

ebm-papst backward-curved motorized impellers provide efficient air movement without complicated, costly scroll housings. Their space-saving design provides a completely integrated, dynamically balanced motor and impeller to assure long-term, efficient operation. They offer engineers the versatility, performance, and efficiency required for air-moving applications. Excellent heat dissipation, a large bearing system, and permanent attachment of the impeller to the motor support trouble-free performance.



Features ▶

- Excellent back pressure/static pressure characteristics
- No scroll required
- Version available in DC, AC, EC
- External rotor motor design
- Speed controllable

Benefits ▶

- Performance over a wide range of pressures
- Scroll-less design; 360-degree discharge of exhaust air
- Satisfies a wide range of application requirements
- Motor cooled by passing air flow
- Low noise

Applications ▶

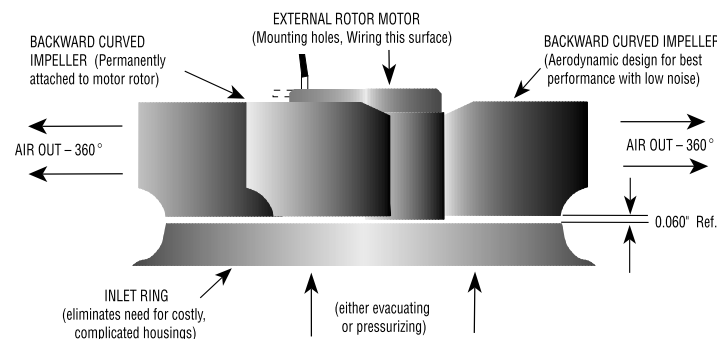
- Duct boosting
- Ventilation hoods
- Rooftop ventilators
- Heat exchangers

Product Specifications ▶

Part Number*	Size - Type	Voltage	Voltage Range	Maximum Flow Rate (CFM)	Noise-Free Air (dBA)	Power Consumption (W)	Maximum Ambient Temperature (°C)	Impeller Material	Bearing Type
R1G133-AA17-02	Ø 133 mm - DC	24 VDC	8-14	212	63	28	+60	Plastic	Ball
R1G175-AB63-02	Ø 175 mm - DC	24 VDC	16-28	330	65	34	+60	Plastic	Ball
R1G175-AB75-24	Ø 175 mm - DC	12 VDC	8-14	301	66	27	+60	Plastic	Ball
R1G190-AB25-02	Ø 190 mm - DC	48 VDC	36-57	365	68	51	+40	Plastic	Ball
R1G190-AC37-52	Ø 190 mm - DC	24 VDC	16-28	330	68	80	+60	Plastic	Ball
R1G220-AB35-52	Ø 220 mm - DC	24 VDC	16-28	621	76	106	+60	Plastic	Ball
R1G225-AF11-52	Ø 225 mm - DC	48 VDC	36-57	665	67	95	+60	Plastic	Ball
R1G280-AE45-52	Ø 280 mm - DC	24 VDC	16-28	1031	71	95	+60	Galvanized steel	Ball
R2E190-A026-25	Ø 190 mm - AC	230 VAC, 60 Hz	NA	365	64	75	+55	Plastic	Ball
R2E190-A050-16	Ø 190 mm - AC	115 VAC, 50/60 Hz	NA	365	64	75	+55	Plastic	Ball
R2E220-AA40-23	Ø 220 mm - AC	230 VAC, 60 Hz	NA	530	74	100	+40	Plastic	Ball
R2E220-AA44-23	Ø 220 mm - AC	115 VAC, 50/60 Hz	NA	530	74	100	+40	Plastic	Ball
R2E225-BD92-36	Ø 225 mm - AC	230 VAC, 60 Hz	NA	789	71	200	+60	Plastic	Ball
R2E225-BE51-09	Ø 225 mm - AC	115 VAC, 60 Hz	NA	756	75	185	+50	Plastic	Ball
R3G500-AG06-03	Ø 500 mm - EC	380-480 VAC, 50/60 Hz	NA	6357	79	1850	+60	Metal	Ball
R3G630-AB06-03	Ø 630 mm - EC	380-480 VAC, 50/60 Hz	NA	9594	79	2000	+50	Metal	Ball

*Select parts are shown here; for a complete range of impellers contact Arrow.

Easy installation and mounting



Arrow Industrial Selector Guide

800-349-4960 | www.arrownac.com/industrial



Axial and Mixed-Flow Fans

ebm-papst's compact axial fans move air axially from the inlet side through to the outlet side. Compact fans are normally supplied with a housing that acts as a tube and helps guide the air through the impeller. These fans are often referred to as tubeaxial fans. A diagonal fan, often referred to as a mixed-flow fan, takes the general form factor of a tubeaxial fan, but has the ability to generate static pressure like a radial fan. The airflow path of a diagonal fan is axial inlet and diagonal exhaust.

Features ▶

- Flange zones for simple mounting
- Designs low in noise with Sintec sleeve bearing system
- Ball bearing design for extreme ambient conditions
- Choice of various AC and DC designs in different voltage and speed variants
- Overload and locked-rotor protection

Benefits ▶

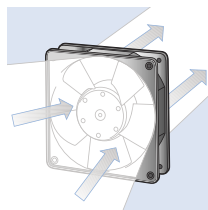
- Space-saving installation due to compact and flat design
- Far less operating noise due to mixed-flow fans discharging air diagonally
- Programmable cooling by setting speed profiles
- Extensive accessory range

Applications ▶

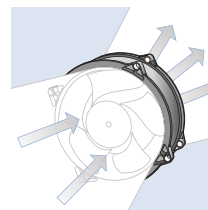
- Cabinet cooling
- Machine cooling
- Spot cooling
- Duct booster

Product Specifications ▶

Part Number	Size (mm)	Nominal Voltage	Maximum Flow Rate (CFM)	Noise-Free Air (dBA)	Power Consumption (W)	Maximum Ambient Temperature (°C)	Bearings	Weight (lb.)
W2E200-HK86-01	225 x 225 x 80	115 VAC, 60 Hz	606	61	80	+65	Ball	4.41
W2E200-HK38-01	225 x 225 x 80	230 VAC, 60 Hz	606	61	80	+65	Ball	4.41
W2E250-HJ32-01	280 x 280 x 80	115 VAC, 60 Hz	1100	73	175	+50	Ball	4
W2E250-HJ28-01	280 x 280 x 80	230 VAC, 50/60 Hz	1100	73	200	+40	Ball	4
W2E208-BA86-51	Ø 260 x 80	115 VAC, 60 Hz	544	70	87	+72	Ball	6.38
W2E208-BA20-51	Ø 260 x 80	230 VAC, 60 Hz	544	70	87	+72	Ball	6.38
DV4112N	119 x 119 x 38	12 VDC	162	60	21	+65	Ball	1
DV4114N	119 x 119 x 38	24 VDC	162	60	21	+65	Ball	1
DV4118N	119 x 119 x 38	48 VDC	162	60	21	+65	Ball	1
DV5212N	127 x 127 x 38	12 VDC	159	56	21	+65	Ball	1.08
DV5214N	127 x 127 x 38	24 VDC	159	56	21	+65	Ball	1.08
DV5218N	127 x 127 x 38	48 VDC	159	56	21	+65	Ball	1.08
DV6224	Ø 172 x 51	24 VDC	318	63	40	+75	Ball	1.81
DV6248	Ø 172 x 51	48 VDC	318	63	40	+75	Ball	1.81
DV6224TD (turbofan)	Ø 172 x 51	24 VDC	59-412	29-69	2-86	+60	Ball	1.81
DV6248TD (turbofan)	Ø 172 x 51	48 VDC	59-412	29-69	2-86	+60	Ball	1.81
DV6424	Ø 172 x 160 x 51	24 VDC	312	65	40	+75	Ball	1.81
DV6448	Ø 172 x 160 x 51	48 VDC	312	65	40	+75	Ball	1.81
DV6424/2TDP-815	Ø 172 x 160 x 51	24 VDC	59-400	29-71	2-91	+70	Ball	1.81
DV6448/2TDP-833	Ø 172 x 160 x 51	48 VDC	59-400	29-71	2-86	+60	Ball	1.81
W1G180-AB31-01	Ø 200 x 70	24 VDC	530	68	93	+60	Ball	3.97
W1G180-AB47-01	Ø 200 x 70	48 VDC	544	69	100	+60	Ball	3.97
W1G200-HH77-52	225 x 225 x 80	24 VDC	642	60	55	+60	Ball	4.63
W1G200-HH01-52	225 x 225 x 80	48 VDC	592	60	45	+60	Ball	4.63



Axial fans: high flow rate at medium pressure



Mixed-flow fans: high flow rate at relatively high pressure