ebmpapst

What is My Fan?

Every EBM-Papst fan has a unique identifying code either printed directly on to the motor or to a label on the terminal enclosure as shown in the images below. This code is explained in the tables and identifies all the main specifications of the fan, allowing you to find the correct data sheet or a suitable replacement. If you do not have the code, look at the images on the next page for helpful hints on fan types that will allow you to select a fan code

Part Number Locations

Typical Location of Part Numbers

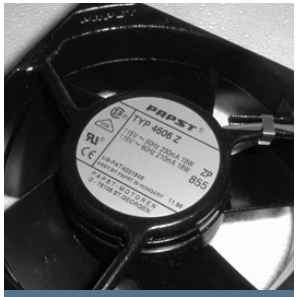
ebm-papst Axial

ebm-papst EC Axial

ebm-papst Forward Curve Radial

ebm-papst Q- motor

ebm-papst Radial



ebm-papst Compact

ebm-papst Axial Fan Part Number

1	2	3	4	5	6	7	8	9	10	11	12
S	4	E	3	0	0	A	S	7	02	14	24

1	‘A’ bare fan & motor, ‘S’ with wire grille flat or basket, ‘W’ with square or round wall plate
2	number of poles (speed), 2, 4, 6 or 8, (in the case of EC products (1 or 3 core) it is not representative of speed)
3	motor type (S = shaded pole, D = 3-phase, E = 1-phase, G = EC)
4 5 6	impeller diameter (mm)
7 8 9 10 11 12	fan & motor configuration

ebm-papst Radial / Centrifugal Fan Part Number

1	2	3	4	5	6	7	8	9	10	11	12
R	4	E	1	9	0	R	A	2	06	15	21

1	‘R’ bare fan & motor, ‘G’ forward curved (single inlet) with housing, ‘D’ forward curved (double inlet) with housing
2	number of poles (speed), 2, 4, 6 or 8, (in the case of EC products (1 or 3 core) it is not representative of speed)
3	motor type (S = shaded pole, D = 3-phase, E = 1-phase, G = EC)
4 5 6	impeller diameter (mm)
7 8 9 10 11 12	fan & motor configuration

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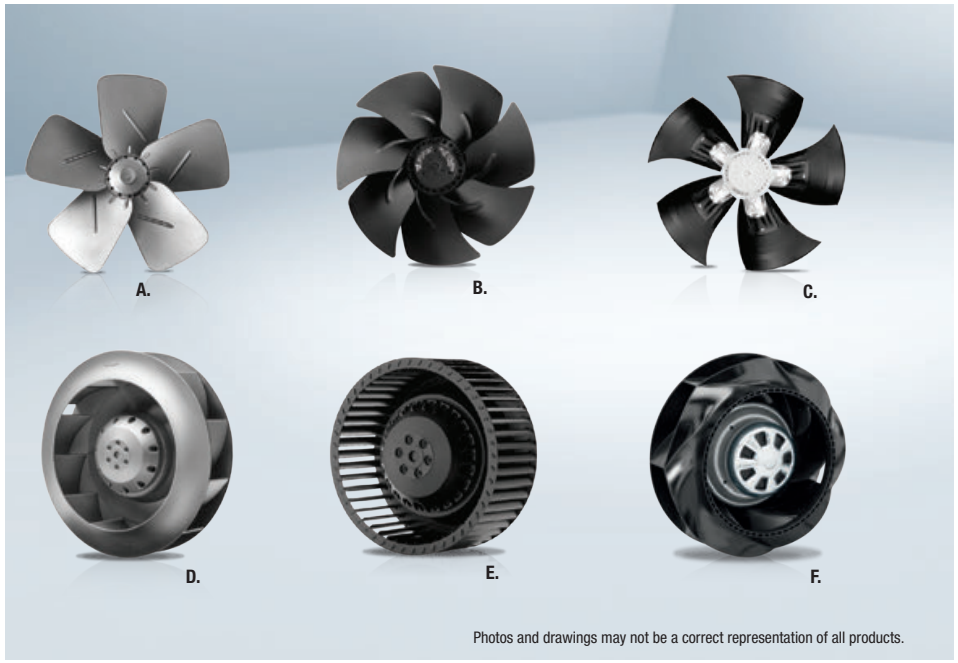
1. What style of impeller does it have?	
Looks like a propeller	Axial **(A, B or C)**
Looks like a rotating drum	Centrifugal or radial **(D, E or F)**

2. What is the diameter?	
Axial	
Up to 1600mm	
Radial	
Up to 1250mm	

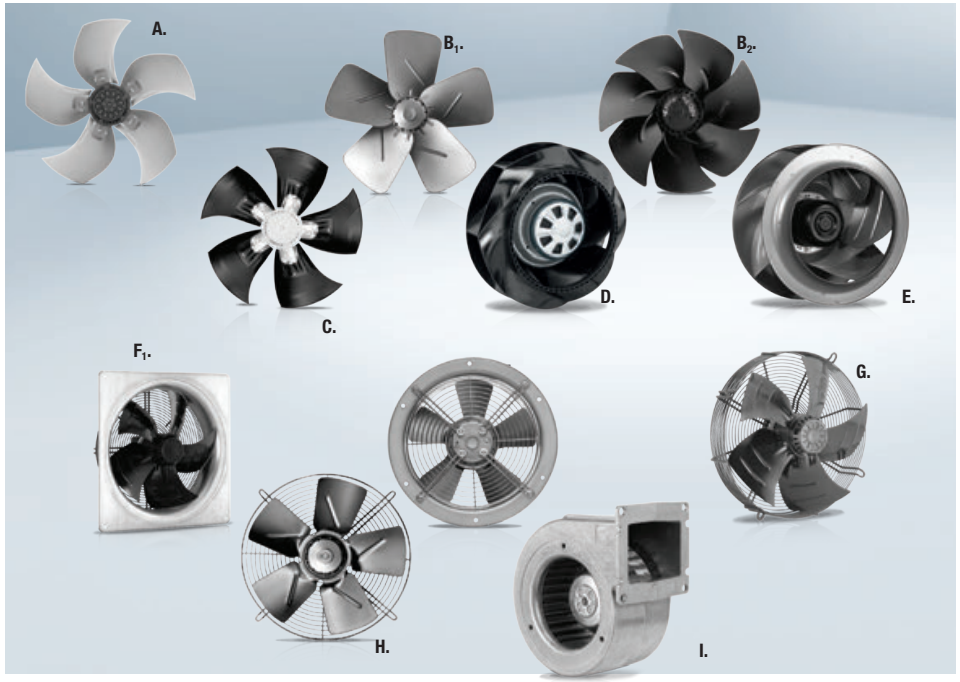
3. Blade style	
Axial	
Straight blades (typically 5)	'A' Blades **(A)**
Sickle shaped blades (5, 7 or 9)	'S' Blades **(B)**
HyBlade (3 or 5)	HyBlade **(C)**
Radial	
Few blades	Backward curve centrifugal **(D or F)**
Many blades	Forward curve centrifugal **(E)**

4. What type of blade material?	
Axial	
Die-cast alloy	'S' Blade (Bolted Fastening) **(A)**
Welded sheet steel	**(B)**
HyBlade (composite plastic)	**(C)**
Radial	
Plastic	**(D)**
Aluminium sheet	**(E)**

5. What mounting style or housing?	
Axial	
Wall plate square or round	**(F_1 or F_2)**
Basket grille	**(G)**
Flat grille	**(H)**
No mounting	**(A, B or C)**
Radial	
No Housing	(Commonly) backward curve **(D or E)**
Housing	(Commonly) forward curve **(I)**



Photos and drawings may not be a correct representation of all products.



Photos and drawings may not be a correct representation of all products.

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5. What mounting style or housing? (continued)

Radial	
Scroll housing 1 inlet	**(A)**
Scroll with 2 inlets	**(B, C, D)**

6. AC or EC motor (EC has electronics built into the back of the motor)

AC	**(E)**
EC	**(F)**

7. Which way does the air flow?

Axial	
When looking at rotor (spinning part) does the air:	
Blow in your face?	Air flow 'A' **(G)**
Blow away from your face?	Air flow 'V' (out over mounting brackets) **(G)**
Radial	
At 90° angle to the motor	

8. What is the power supply? (Don't count the leads, this is not an indication)

Single Phase (230V), Three Phase (400V) or DC

If a capacitor is present	Single phase

(Other Voltage may apply if from imported equipment)

9. What has it come off?

Imported equipment	We can only offer the closest alternative
Local equipment	Which brand? We may be able to work out what the model is

10. What speed? (Most customers may not know this if the label has worn off)

~2800rpm	2 pole
~1440rpm	4 pole
~960rpm	6 pole
~720rpm	8 pole

Not applicable to EC motors

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