

# ebmpapst

engineering a better life

## iQ-one

*The next step for the refrigeration market*

Universally applicable,  
efficient and durable

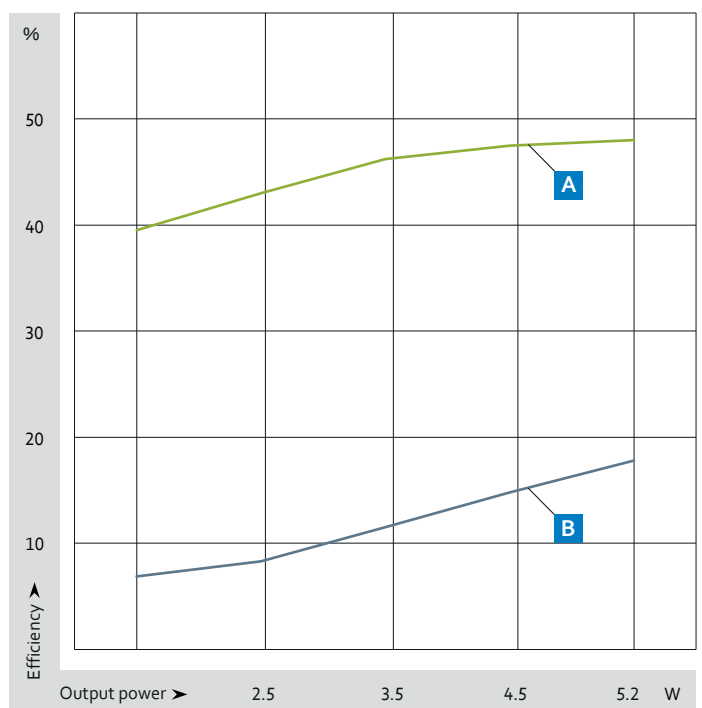
### The advantages of the iQ-One

- + Approved for use with flammable refrigerants
- + Suitable for global use
  - All common worldwide approvals are available
  - Suitable for all common power supplies: Automatic speed selection depending on line frequency (50Hz → 1,300 rpm / 60Hz → 1,550 rpm)
- + Optimum interaction between motor and aerodynamics ensures improved efficiency
  - 10 to 50% increase in motor efficiency level as compared to Q motors
- + Easy 1:1 replacement of all Q motors and shaded-pole motors thanks to various installation options
- + Reliable thanks to long service life

### Efficiency comparison between iQ-one and Q motor

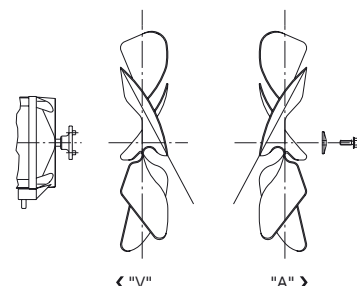
**A** iQ-one @ 1,300rpm

**B** Q motor @ 1,300/1,550rpm



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Technical data	
Specification	iQ-one
Input voltage	100-240 VAC
Frequency	50/60 Hz
Input power	11W
Output power	5W
Speed range	1,300 oder 1,550rpm (automatic speed selection by power supply frequency)
Mounting positions	various
Perm. ambient temperature range	-30...+40 °C
IP Protection	IP54
Approvals	UL/CSA, VDE, CCC, EAC
Lifetime	30,000h (horizontal mounting)

## Suitable impellers (aluminium)

Ø mm	Blade angle	1,300rpm	1,550rpm	Material nr. Airflow V	Material nr. Airflow A
154	22°	X	X	73801-2-3634	73761-2-3634
	28°	X	X	73802-2-3634	73762-2-3635
	34°	X	X	73803-2-3634	73763-2-3636
172	22°	X	X	73804-2-3634	73764-2-3637
	28°	X	X	73805-2-3634	73765-2-3638
	34°	X	X	73806-2-3634	73766-2-3639
200	22°	X	X*	73807-2-3634	73767-2-3640
	28°	X	X*	73808-2-3634	73768-2-3641
	34°	X	X*	73809-2-3634	73769-2-3642

## Suitable impellers (composite)

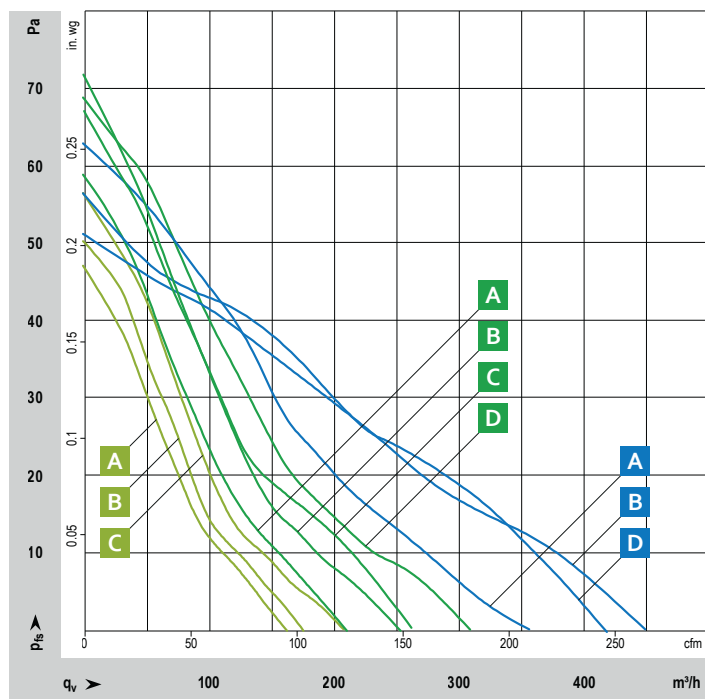
Ø mm	1,300rpm	1,550rpm	Material-Nr.
172	X	X	8317078019
200	X	X*	8317078018

\* Depending on back pressure, full nominal speed is not reached.

## iQ-one characteristic curve comparison, 100-240VAC

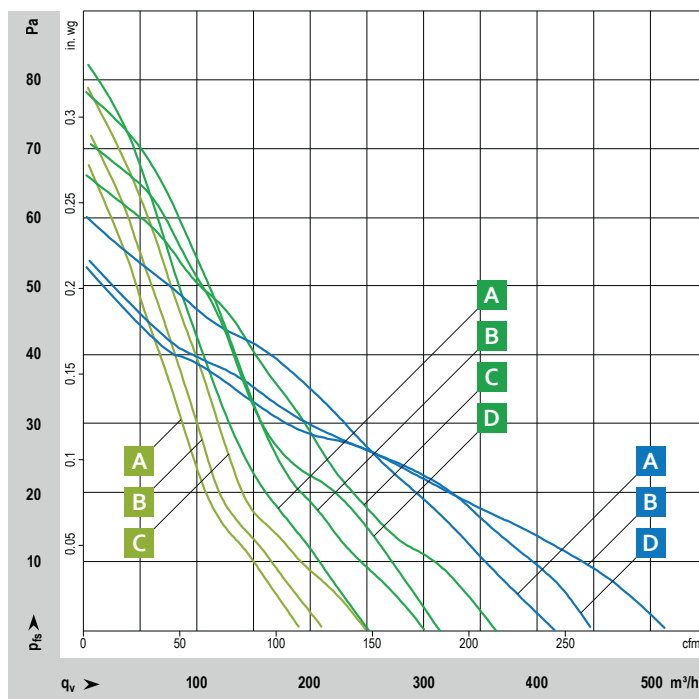
50Hz, 1,300rpm

— 154mm — 172mm — 200mm **A** 22° **B** 28° **C** 34° **D** Composite



60Hz, 1,550rpm

— 154mm — 172mm — 200mm **A** 22° **B** 28° **C** 34° **D** Composite



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## Technical drawing

Dimensions in mm

iQ-one

Q motor

