

## HJBM EEC



WALL MOUNTED FAN WITH SQUARE FRAME, VARIABLE PITCH BLADES AND ELECTRONIC MOTOR

### MANUFACTURING FEATURES

- Square plate made of galvanized steel sheet.
- Variable pitch angle polyamide impeller reinforced with fibreglass.
- Supplied with motor support and protection guard according to the ROHS 2002/95/EC Directive (Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipments).
- High efficiency brushless motor with permanent magnets and low sound level. Specially designed for fans with operating and control electronics on motor back.
- Switching frequency of 16 KHz.
- Operating range: 300 - 1800 rpm.
- Power supply: 230V + - 10%.
- Power Frequency: 50/60Hz.
- Operating temperature range: -20°C +45°C.
- Enclosed motor IP 54.
- Insulation class H.
- Speed ??control through:
- 22Kohms Trimmer.
- 0-10V external sensor.

## Accessories



INT



PC2



PCP



REGC



RP0

### APPLICATIONS

Designed for wall assembly, they are suitable for:

- Air renewal for all kind of buildings and industries.

### UNDER REQUEST

- B form impeller (air flow from impeller to motor).
- Aluminium impeller.

## Technical data

### Single-phase motor / 4 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
268401103	HJBM EEC 40 M4 0,55kW	1400	2,5	0,28	5.040	46	9	1
268451103	HJBM EEC 45 M4 0,55kW	1400	2,8	0,35	6.020	48	12,50	1
268501103	HJBM EEC 50 M4 0,55kW	1400	5,1	0,65	9.090	50	18	1
268561103	HJBM EEC 56 M4 1,1kW	1400	6,1	0,77	11.470	53	22	1

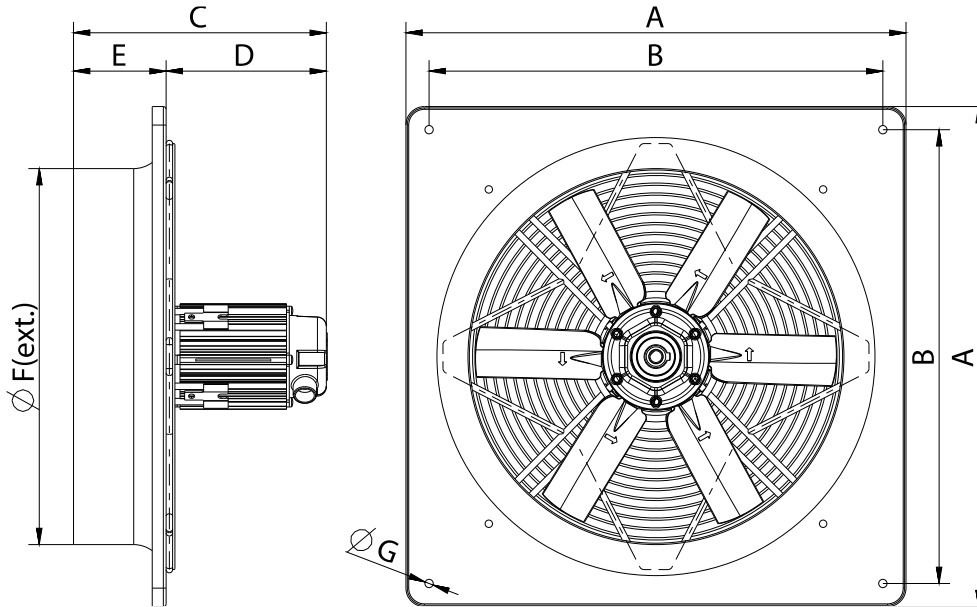
### Single-phase motor / 6 poles

Code	Model	R.P.M.	Rated I. (A) 230V	Rated power kW	Max. Airflow m3/h	Sound db (A)*	Weight	Connect. diagram
268411103	HJBM EEC 40 M6 0,55kW	900	0,8	0,08	3.230	36	9	1
268461103	HJBM EEC 45 M6 0,55kW	900	0,9	0,10	3.810	39	12,50	1
268511103	HJBM EEC 50 M6 0,55kW	900	1,6	0,17	5.800	40	18	1
268571103	HJBM EEC 56 M6 0,55kW	900	2,1	0,24	7.510	43	19	1

**Notes:**

\* Total sound pressure level at the point of maximum flow measured in dB(A) in the suction measured in free field at a distance of 6m from the source

## Dimensions

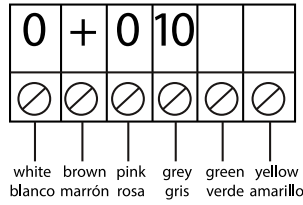


Model	A	B	C	D	E	$\varnothing F$	$\varnothing G$
HJBM EEC 40 M4 0,55kW	540	490	274	174	100	406	9
HJBM EEC 40 M6 0,55kW	540	490	274	174	100	406	9
HJBM EEC 45 M4 0,55kW	576	535	273	173	100	455	11
HJBM EEC 45 M6 0,55kW	576	535	273	173	100	455	11
HJBM EEC 50 M4 0,55kW	655	615	278	158	120	508	11
HJBM EEC 50 M6 0,55kW	655	615	278	158	120	508	11
HJBM EEC 56 M4 1,1kW	725	650	290	170	120	563	11
HJBM EEC 56 M6 0,55kW	725	650	278,5	158,5	120	563	11

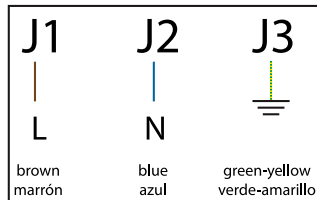
# Wiring diagram

DIAGRAM Nº 1

CONTROL



POWER / POTENCIA



# CHARACTERISTIC CURVE

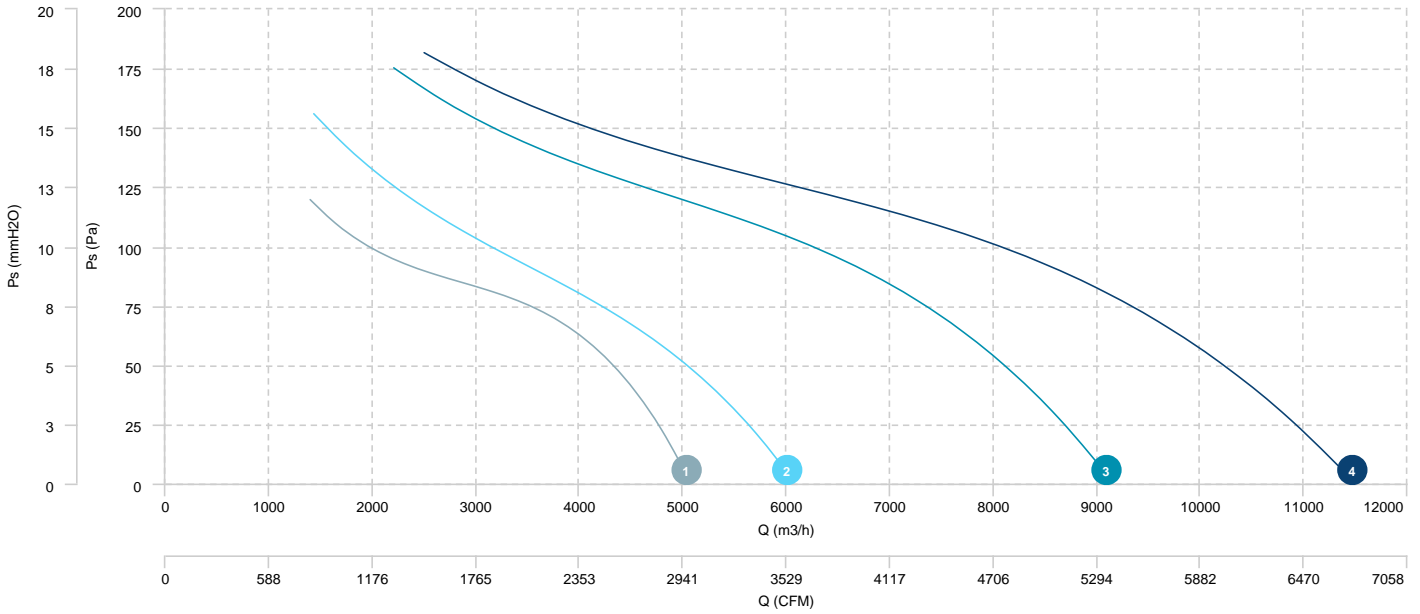
1 HJBM EEC 40 M4 0,55kW

2 HJBM EEC 45 M4 0,55kW

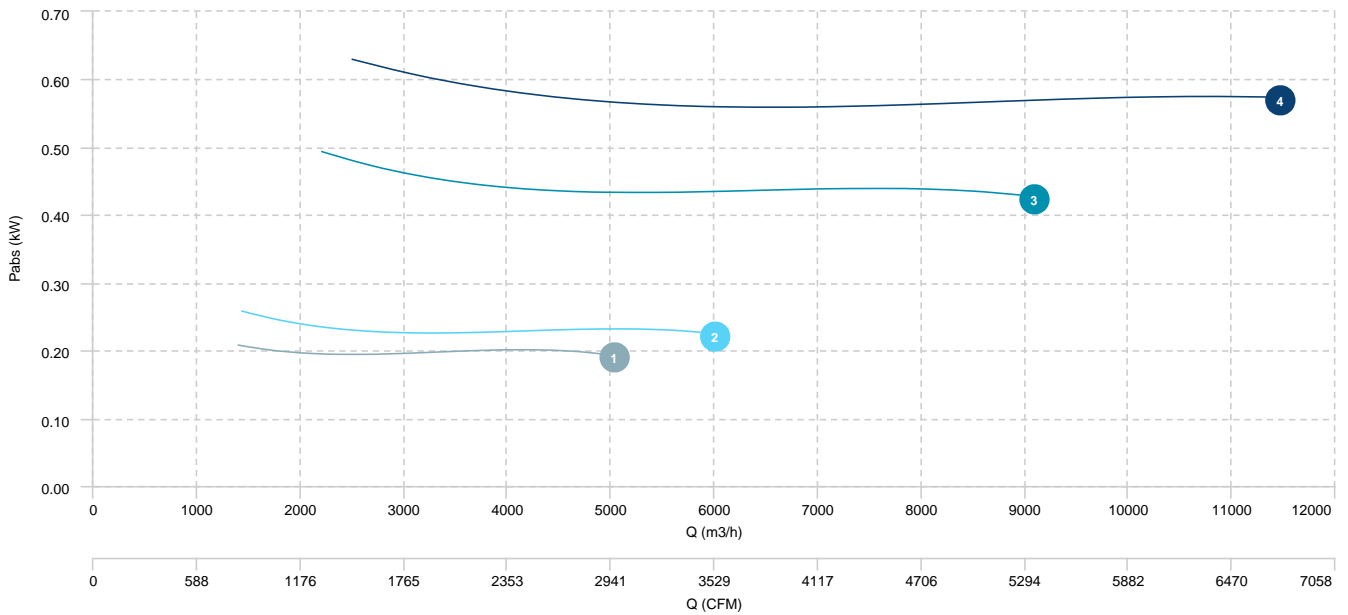
3 HJBM EEC 50 M4 0,55kW

4 HJBM EEC 56 M4 1,1kW

## AIR FLOW - PRESSURE

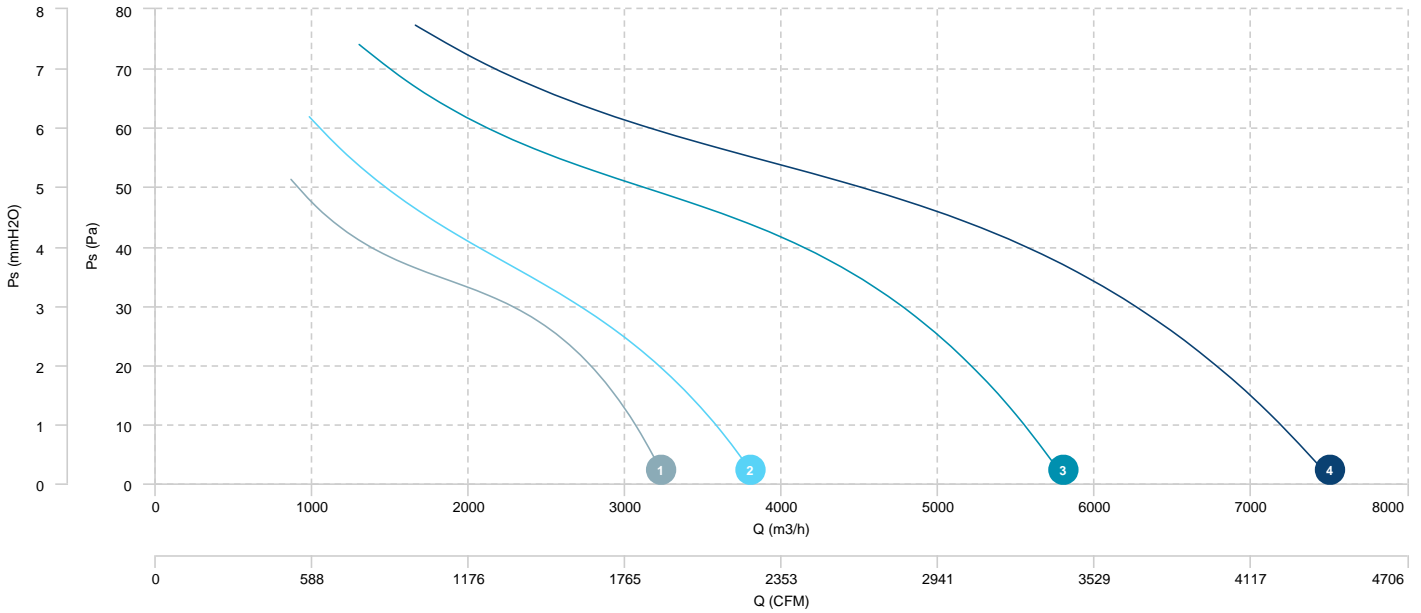


## AIR FLOW - ABSORBED POWER

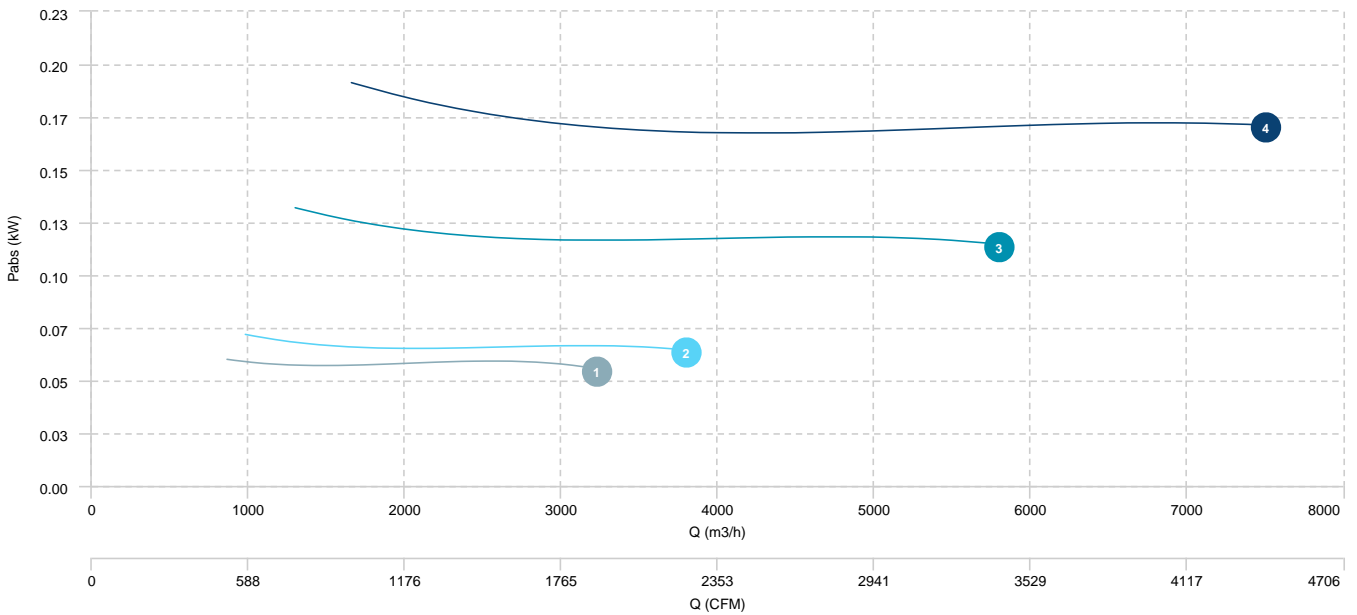


- 1 HJBM EEC 40 M6 0,55kW
- 2 HJBM EEC 45 M6 0,55kW
- 3 HJBM EEC 50 M6 0,55kW
- 4 HJBM EEC 56 M6 0,55kW

**AIR FLOW - PRESSURE**



**AIR FLOW - ABSORBED POWER**



## Sound data

### Sound / 4 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HJBM EEC 40 M4 0,55kW	Inlet	45	52	57	61	64	66	67	60	72
HJBM EEC 45 M4 0,55kW	Inlet	49	56	61	65	68	68	69	62	74
HJBM EEC 50 M4 0,55kW	Inlet	51	58	63	67	70	69	70	64	76
HJBM EEC 56 M4 1,1kW	Inlet	52	61	66	69	73	72	73	67	79

### Sound / 6 poles

Sound power Lw dB (A)										
Model		63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	Total
HJBM EEC 40 M6 0,55kW	Inlet	35	42	47	51	55	56	57	50	62
HJBM EEC 45 M6 0,55kW	Inlet	39	46	51	56	58	58	59	53	65
HJBM EEC 50 M6 0,55kW	Inlet	41	48	53	57	60	59	61	54	66
HJBM EEC 56 M6 0,55kW	Inlet	42	51	57	60	63	63	64	58	69

erp data

ERP	
Fan type	Axial fan
Installation category	A
Efficiency category	Static
The fan has to be installed with FSC	No

ERP / 4 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HJBM EEC 40 M4 0,55kW	0,28	38,80	49,58	3.246,54	79,70	0,20	1400	1,00
HJBM EEC 45 M4 0,55kW	0,35	41,55	51,95	3.648,48	88,46	0,23	1400	1,00
HJBM EEC 50 M4 0,55kW	0,65	42,03	50,65	5.738,87	108,76	0,43	1400	1,00
HJBM EEC 56 M4 1,1kW	0,77	41,75	49,67	7.158,44	112,91	0,56	1400	1,00

ERP / 6 poles

Model	Motor power (kW)	Maximum efficiency point data						
		Max. efficiency (%)	Efficiency grade (N) (N)	Air Flow (m3/h)	Ps (Pa)	Pabs (kW)	speed (rpm)	Specific ratio
HJBM EEC 56 M6 0,55kW	0,24	38,90	50,12	4.735,09	48,15	0,17	900	1,00