

IMQ Series - square mixed flow (TEFC)



product IMQ - Square Mixed Flow (TEFC)		
dimensions mm 355 - 800	poles & duty 4 - 8 / up to 9.1 M ³ /s	
application Duct mounted mixed flow fans for general ventilation with low sound levels		

IMQ Series

The IMQ series is a range of mixed flow inline duct mount fans for use in general ventilation systems. The IMQ offers very low sound levels and is therefore ideal in applications such as hospitals, schools, residential apartment buildings and hotels. All models are built around high performance mixed flow impellers driven by TEFC motors.

Construction

Cases are fabricated from galvanised sheet steel with standard duct flanges for easy installation. Impellers are high efficiency mixed flow type. The impeller and motor assembly is supported by a robust triangulated steel frame for long, trouble free service.

Motors

Motors are external TEFC designs incorporating sealed for life bearings. Motor enclosures feature IP54 protection in all models. Windings incorporate class 'B' or class 'F' insulation as standard. EXE and EXD models are available across the IMQ range.

Features

Highly reliable TEFC motors with sealed for life ball bearings.
High performance mixed flow impellers.
Perfectly suited to medium/high volume and pressure applications.
Fully speed controllable.
Fans can be mounted at any angle.
Very low sound levels.

Testing

Rated fan performance has been determined by testing to ISO 5801 : 2007.
Fan sound data has been determined by testing to AMCA 300.

Wiring diagrams and latest data

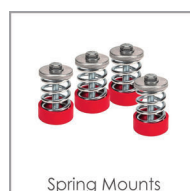
Refer to the latest product datasheet for individual model wiring instructions, data and specifications. Datasheets are available from our electronic selection software **FansSelect** downloadable at www.pacificHVAC.com

It is the responsibility of the user to connect the thermal contacts where provided to protect the motor. It is a condition of our warranty that all equipment supplied is installed according to the requirements of AS/NZS3000:2007 Australian/New Zealand wiring rules.

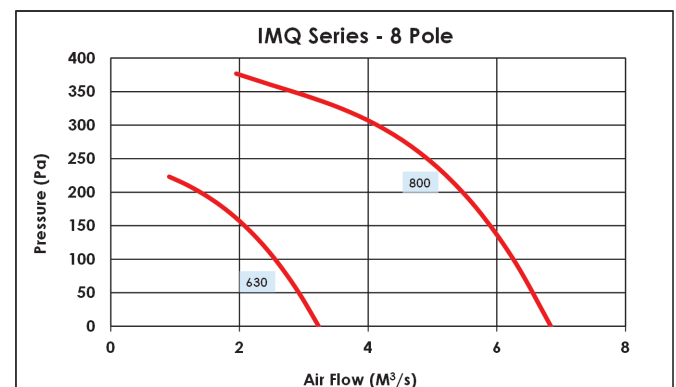
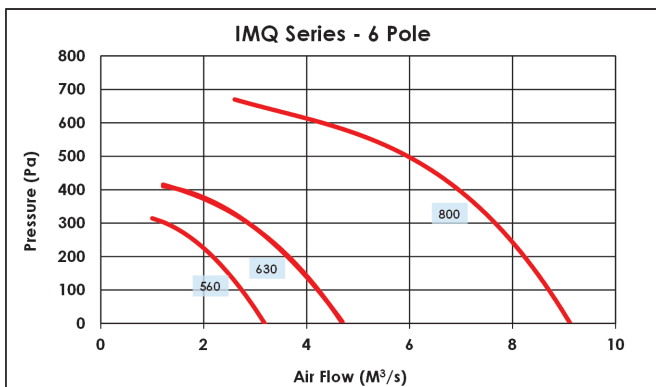
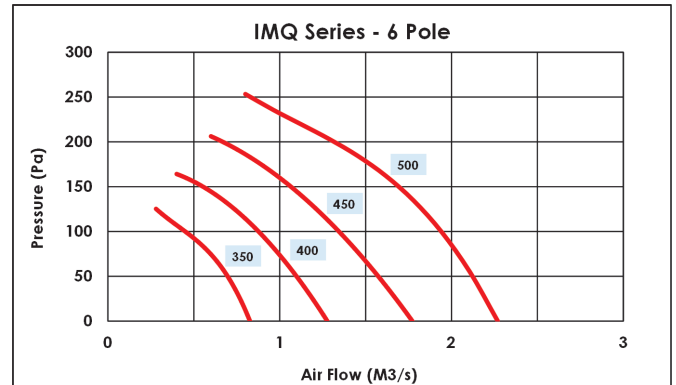
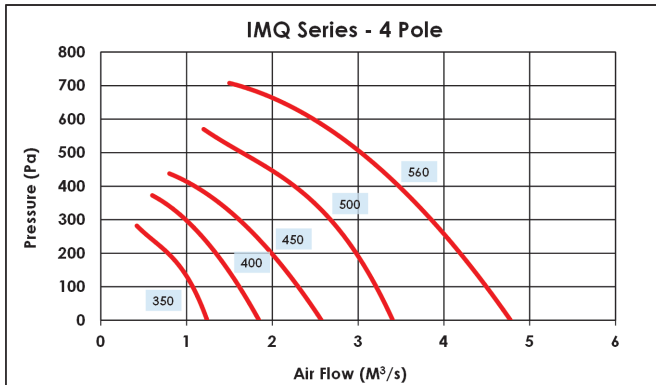
Suggested Specification

Mixed flow duct mounted type fans shall be of the IMQ Series manufactured by Pacific HVAC Engineering. High Performance Mixed Flow impellers shall be driven by TEFC motors with sealed for life bearings. Cases incorporating standardised flanges to be of galvanised sheet steel. All fans shall be fully tested in accordance with the requirements of ISO 5801 : 2007 for airflow and AMCA 300 for sound.

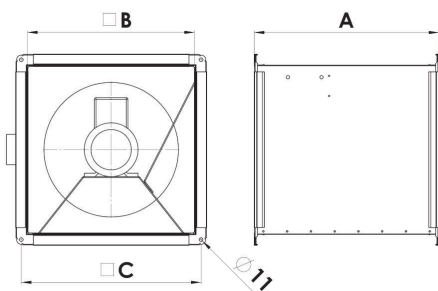
Ancillaries



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Fan Model	Full Load Current	Motor kW	Shaft Revs / sec	dB(A) @ 3m	SPL dB referred to 10 ⁻¹² W Type D: ducted inlet, outlet (LWi)							
					63	125	250	500	1K	2K	4K	8K
IMQ355-4DD	1.03	0.37	24	50	75	73	73	66	61	64	61	50
IMQ355-6DD	1.01	0.37	16	45	66	70	66	63	60	57	56	46
IMQ400-4DD	1.26	0.55	24	55	74	73	72	71	67	71	66	60
IMQ400-6DD	1.01	0.37	16	45	67	70	64	63	62	58	56	45
IMQ450-4DD	3.19	1.5	24	56	76	76	75	73	70	71	69	61
IMQ450-6DD	1.01	0.37	16	48	70	72	69	64	64	62	57	49
IMQ500-4DD	4.38	2.2	24	61	82	82	81	77	76	77	71	65
IMQ500-6DD	1.87	0.75	15	52	74	74	74	68	64	67	62	52
IMQ560-4DD	7.68	4	24	65	85	81	84	80	81	80	76	69
IMQ560-6DD	2.62	1.1	15	55	76	79	77	72	69	70	65	62
IMQ630-6DD	5.19	2.2	16	60	81	79	78	75	76	75	69	62
IMQ630-8DD	2.62	1.1	11	52	76	76	75	70	67	66	60	51
IMQ800-6DD	11.4	5.5	16	66	88	89	86	84	83	79	76	66
IMQ800-8DD	5.33	2.2	12	59	82	80	81	76	75	71	66	59



IMQ Size	A	B	C	kg
355	550	450	485	34
400	550	500	535	36
450	600	550	585	39
500	650	650	685	58
560	750	700	735	72
630	800	800	835	96
800	900	1000	1035	130

4D=4pole, 3phase, 6D=6 pole, 3phase, 8D=8pole, 3phase.