

TPM Range - Plate Mounted Propeller Fans

Operation

- The propeller blades are attached to the body of the external rotor motor and is balanced as a complete unit.
- A terminal box is provided on the back of the motor which allows for rapid, reliable and easy electrical connection.
- Epoxy powder coated inlet guard fitted as standard.

Construction

Fan Housing

- Mounting plate is manufactured from pressed steel and is epoxy powder coated to give an attractive and durable finish.
- There are four fixing points on each corner of the plate for fast and easy mounting.

Propeller

- Pressed steel blades are attached to the body of the motor and balanced as a complete unit using dynamic single plane balancing.
- Blade geometry has been selected to provide a volume/pressure characteristics to suit both OEM heat transfer and HVAC applications.

Motor

- Developed to meet the challenging requirements to suit industrial applications and provide a low profile fan solution.
- Bearings are pre-lubricated with high performance grease and sealed-for-life, eliminating any need for maintenance.
- Single phase 220V/50Hz, IP54, Class F insulation.
- **Note:** 380V will be available at a later stage.



Applications

The TPM plate mounted fan is used for extracting volumes of air in medium-sized buildings where neat, low profile appearance is essential:

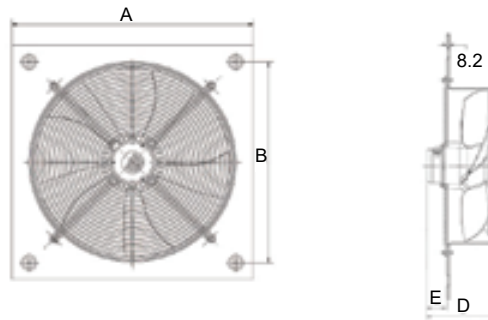
- Commercial: shops, store rooms, stations.
- Industrial: factories, workshops, chemical plants.
- Agricultural: chicken farming, pig farming.

Performance & Technical Specifications

Fan Details					Fan Performance										Electrical Data	
Dia. (mm)	Poles	Part no. 220V	RPM	Sound level dB(A)	m ³ /s @Pa (static)										Rating	220V
					0	10	25	50	75	100	125	150	200	kW	F.L.A	
250	4	TPM25041	1440	55	0.28	0.27	0.26	0.20	0.19	0.13	-	-	-	0.06	0.3	
315	4	TPM31541	1440	57	0.50	0.47	0.42	0.32	0.21	-	-	-	-	0.08	0.36	
350	4	TPM35041	1440	64	0.88	0.86	0.85	0.83	0.79	0.72	0.61	-	-	0.15	0.7	
400	4	TPM40041	1440	68	1.17	1.14	1.08	1.01	0.90	0.78	0.62	-	-	0.19	0.8	
450	4	TPM45041	1440	70	1.53	1.50	1.46	1.33	1.18	0.90	-	-	-	0.32	1.45	
500	4	TPM50041	1440	72	1.73	1.72	1.68	1.56	1.35	1.11	0.78	-	-	0.4	1.75	
550	4	TPM55041	1440	75	2.30	2.28	2.25	2.14	1.94	1.72	1.44	1.11	-	0.5	2.5	

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Dimensions (mm)



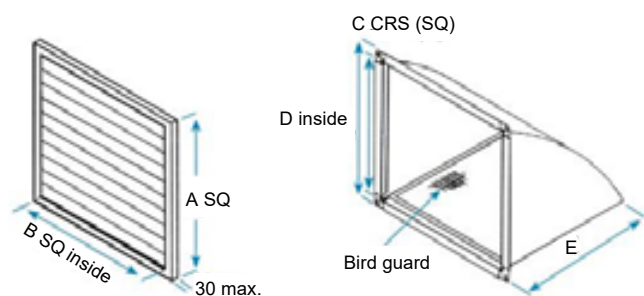
Fan size	A	B	D	E	Hole in wall (dia.) (mm)	Carton size (mm)	Weight
250	380	330	130	50	270	400x180	4
315	430	380	140	50	320	450x190	6
350	480	430	160	50	370	500x230	9
400	530	480	170	50	420	550x230	10
450	580	530	185	50	470	600x230	14
500	630	580	185	50	520	650x230	17
550	680	630	200	50	570	700x240	18
630	760	710	215	50	650	780x260	20

Ancillaries

Louvre shutter



Wall cowl



Fan size	Louvre Shutter			Wall Cowl					
	Inside SQ	Outside SQ	Part no.	Inside SQ	Outside SQ	D	C	E	Part no.
250-350	399	489	10212	399	489	375	419	399	10203
400-450	496	586	10214	496	586	466	516	496	10204
500-550	604	694	10216	604	694	568	624	604	10205