



# TPM Range

Plate mounted propeller fans

## Packaging:

| Fan size | Carton size (mm) | Weight (kg) |
|----------|------------------|-------------|
| 250      | 400x180          | 4           |
| 315      | 450x190          | 6           |
| 350      | 500x230          | 9           |
| 400      | 550x230          | 10          |
| 450      | 600x230          | 14          |
| 500      | 650x230          | 17          |
| 550      | 700x240          | 18          |

## 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.

## 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.



## Application:

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.

## Ancillaries:

| Fan size | Louvre shutter |            | Part no. |
|----------|----------------|------------|----------|
|          | Inside SQ      | Outside SQ |          |
| 250–350  | 399            | 489        | 10212    |
| 400–450  | 496            | 586        | 10214    |
| 500–550  | 604            | 694        | 10216    |

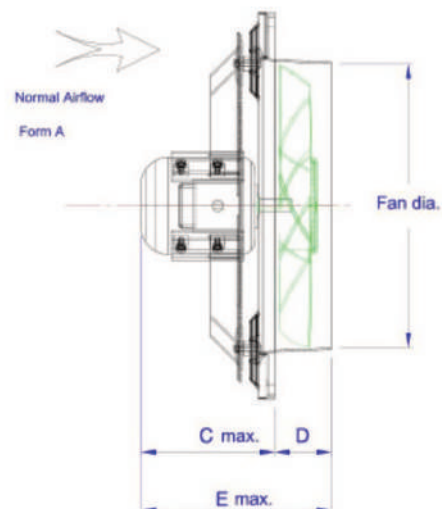
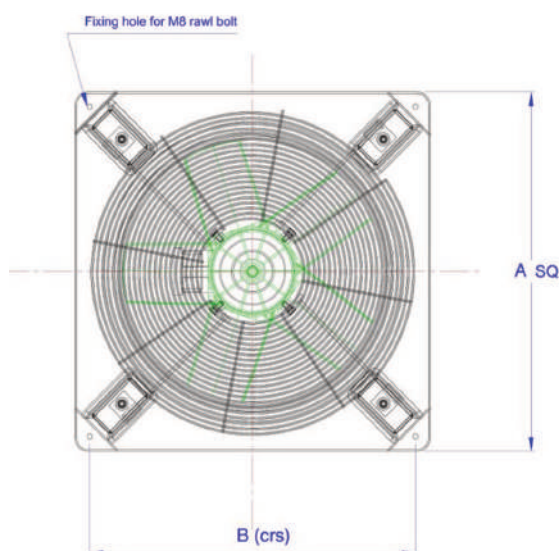


Louvre shutter



Fixed louvre

## Dimensions (mm):



| Fan size | A   | B   | D   | E  | Hole in wall (dia.) (mm) |
|----------|-----|-----|-----|----|--------------------------|
| 250      | 380 | 330 | 130 | 50 | 270                      |
| 315      | 430 | 380 | 140 | 50 | 325                      |
| 350      | 480 | 430 | 160 | 50 | 370                      |
| 400      | 530 | 480 | 170 | 50 | 420                      |
| 450      | 580 | 530 | 185 | 50 | 470                      |
| 500      | 630 | 580 | 185 | 50 | 520                      |
| 550      | 680 | 630 | 200 | 50 | 570                      |

Performance and technical specifications:

| FAN DETAILS |       |               |      |                      |
|-------------|-------|---------------|------|----------------------|
| Dia. (mm)   | Poles | Part no. 220V | RPM  | Sound level (dB (A)) |
| 250         | 4     | TPM25041      | 1440 | 55                   |
| 315         | 4     | TPM31541      | 1440 | 57                   |
| 350         | 4     | TPM35041      | 1440 | 64                   |
| 400         | 4     | TPM40041      | 1440 | 68                   |
| 450         | 4     | TPM45041      | 1440 | 70                   |
| 500         | 4     | TPM50041      | 1440 | 72                   |
| 550         | 4     | TPM55041      | 1440 | 75                   |

| FAN PERFORMANCE |                    |      |      |      |      |      |      |      |     | ELECTRICAL DATA |        |
|-----------------|--------------------|------|------|------|------|------|------|------|-----|-----------------|--------|
| Dia. (mm)       | m³/s @ Pa (static) |      |      |      |      |      |      |      |     | Rating          | 220V   |
|                 | 0                  | 10   | 25   | 50   | 75   | 100  | 125  | 150  | 200 | kW              | F.L.A. |
| 250             | 0.28               | 0.27 | 0.26 | 0.20 | 0.19 | 0.13 | –    | –    | –   | 0.06            | 0.3    |
| 315             | 0.50               | 0.47 | 0.42 | 0.32 | 0.21 | –    | –    | –    | –   | 0.08            | 0.36   |
| 350             | 0.88               | 0.86 | 0.85 | 0.83 | 0.79 | 0.72 | 0.61 | –    | –   | 0.15            | 0.7    |
| 400             | 1.17               | 1.14 | 1.08 | 1.01 | 0.90 | 0.78 | 0.62 | –    | –   | 0.19            | 0.8    |
| 450             | 1.53               | 1.50 | 1.46 | 1.33 | 1.18 | 0.90 | –    | –    | –   | 0.32            | 1.45   |
| 500             | 1.73               | 1.72 | 1.68 | 1.56 | 1.35 | 1.11 | 0.78 | –    | –   | 0.4             | 1.75   |
| 550             | 2.30               | 2.28 | 2.25 | 2.14 | 1.94 | 1.72 | 1.44 | 1.11 | –   | 0.5             | 2.5    |

