

# Tower-AM

## Centrifugal roof fans

### Use

- Extract ventilation systems installed in various premises.
- Roof mounting.
- For any types of roofs or vertical ventilation shafts.
- Compatible with  $\varnothing 150$  up to 315 mm round air ducts.



**Air flow:**  
up to 1920 m<sup>3</sup>/h  
533 l/s



**Power:**  
from 98 W



**Noise level:**  
from 47 dBA



### Design

- Steel casing with a special polymer atmospheric resistant coating.
- Horizontal air exhaust.
- The fan is rated for continuous operation.
- A connecting plate is designed to facilitate the fan mounting to the roof surface.

### Motor

- Single-phase external rotor motor and centrifugal impeller with backward curved blades.
- Dynamically balanced turbine.
- Equipped with ball bearings for longer service life.
- Overheating protection with built-in thermal switches with automatic restart.

### Speed control

- Smooth or step speed control with an external thyristor controller or an external auto transformer (both available upon separate order).

### Mounting

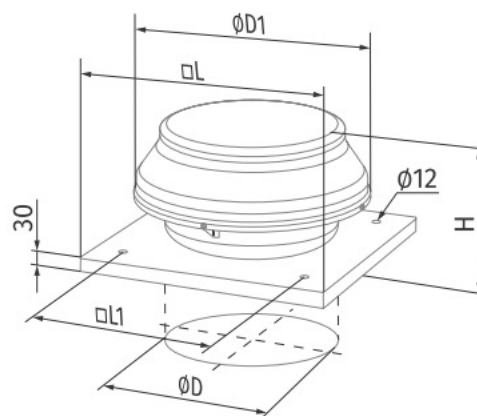
- Roof mounting directly above a ventilation shaft or air duct.
- The fan is connected to the air duct with the intake flange that is fixed to the fan base.
- The fan base is perforated for fixing bolts that attach the fan to a stable level surface or a roof frame.
- Roof frame, intake flange and fixing bolts are available on separate order.
- Power is supplied through an external terminal box.

#### Designation key

| Series   | Spigot diameter [mm] |
|----------|----------------------|
| Tower-AM | 150; 200; 250; 315   |

### Overall dimensions [mm]

| Type         | $\varnothing D$ | $\varnothing D1$ | H   | L   | L1  | Weight [kg] |
|--------------|-----------------|------------------|-----|-----|-----|-------------|
| Tower-AM 150 | 149             | 400              | 230 | 440 | 330 | 7.2         |
| Tower-AM 200 | 198             | 400              | 250 | 440 | 330 | 8.1         |
| Tower-AM 250 | 248             | 400              | 249 | 590 | 450 | 10.1        |
| Tower-AM 315 | 315             | 550              | 339 | 590 | 450 | 12.3        |



#### Accessories

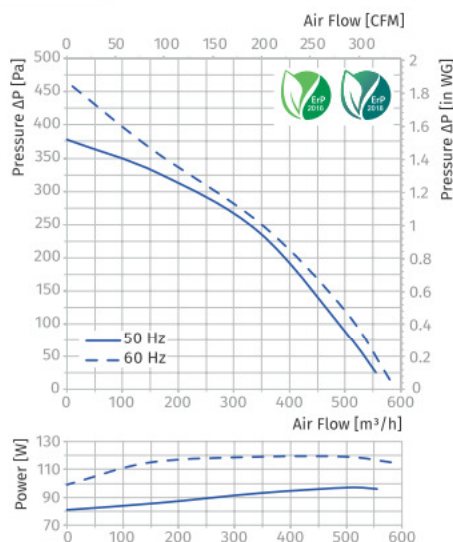
| Mounting frame                                                                      | Silencer                                                                            | Silencer                                                                            | Backdraft air damper                                                                | Air damper                                                                          | Speed controller                                                                    |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| MRDL/MRIDL                                                                          | SD                                                                                  | SDF                                                                                 | VRV                                                                                 | VKA                                                                                 | CDT E1.8                                                                            |

## Technical data

| Parameters                            | Tower-AM 150 |           | Tower-AM 200 |            | Tower-AM 250 |            | Tower-AM 315     |            |
|---------------------------------------|--------------|-----------|--------------|------------|--------------|------------|------------------|------------|
| Voltage [V]                           | 230          |           | 230          |            | 230          |            | 230              |            |
| Frequency [Hz]                        | 50           | 60        | 50           | 60         | 50           | 60         | 50               | 60         |
| Power [W]                             | 98           | 119       | 154          | 205        | 194          | 240        | 296              | 413        |
| Current [A]                           | 0,43         | 0,52      | 0,67         | 0,9        | 0,85         | 1,05       | 1,34             | 1,8        |
| Maximum air flow [m³/h (l/s)]         | 555 (154)    | 580 (161) | 950 (264)    | 1000 (278) | 1310 (364)   | 1340 (372) | 1880 (522)       | 1920 (533) |
| RPM [min⁻¹]                           | 2705         | 2855      | 2375         | 2510       | 2790         | 2860       | 2720             | 2780       |
| Sound pressure at 3 m [dBA]           | 47           | 48        | 48           | 50         | 52           | 53         | 54               | 55         |
| Max. transported air temperature [°C] | -25...+55    | -25...+50 | -25...+50    | -25...+50  | -25...+50    | -25...+50  | -25...+45        | -25...+50  |
| SEC class                             | B            |           | B            |            | -            |            | -                |            |
| Ingress protection rating             | IPX4         |           | IPX4         |            | IPX4         |            | IPX4             |            |
| Motor IP rating                       | IP44         |           | IP44         |            | IP44         |            | IP44             |            |
| ErP                                   | 2016, 2018   |           | 2016, 2018   |            | 2015, 2016   |            | 2015, 2016, 2018 |            |

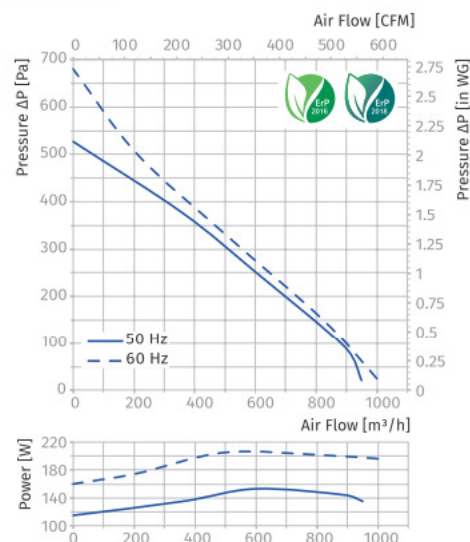
### TOWER-AM 150

| Sound power level,<br>A-weighted | Octave frequency bands [Hz] |    |     |     |     |      |      |           |
|----------------------------------|-----------------------------|----|-----|-----|-----|------|------|-----------|
|                                  | Gen.                        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 8000 |
| LWA to inlet [dBA]               | 71                          | 45 | 65  | 64  | 63  | 61   | 60   | 48 39     |
| LWA to environment [dBA]         | 64                          | 39 | 59  | 55  | 37  | 20   | 17   | 26 20     |



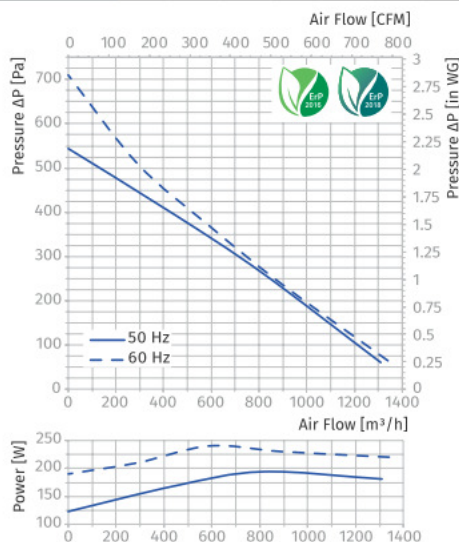
### TOWER-AM 200

| Sound power level,<br>A-weighted | Octave frequency bands [Hz] |    |     |     |     |      |      |           |
|----------------------------------|-----------------------------|----|-----|-----|-----|------|------|-----------|
|                                  | Gen.                        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 8000 |
| LWA to inlet [dBA]               | 77                          | 49 | 69  | 67  | 72  | 65   | 61   | 58 50     |
| LWA to environment [dBA]         | 64                          | 45 | 63  | 61  | 48  | 31   | 25   | 47 41     |



### TOWER-AM 250

| Sound power level,<br>A-weighted | Octave frequency bands [Hz] |    |     |     |     |      |      |           |
|----------------------------------|-----------------------------|----|-----|-----|-----|------|------|-----------|
|                                  | Gen.                        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 8000 |
| LWA to inlet [dBA]               | 72                          | 58 | 65  | 66  | 69  | 66   | 62   | 53 47     |
| LWA to environment [dBA]         | 65                          | 57 | 64  | 60  | 49  | 39   | 39   | 44 40     |



### TOWER-AM 315

| Sound power level,<br>A-weighted | Octave frequency bands [Hz] |    |     |     |     |      |      |           |
|----------------------------------|-----------------------------|----|-----|-----|-----|------|------|-----------|
|                                  | Gen.                        | 63 | 125 | 250 | 500 | 1000 | 2000 | 4000 8000 |
| LWA to inlet [dBA]               | 77                          | 55 | 67  | 68  | 72  | 68   | 66   | 62 60     |
| LWA to environment [dBA]         | 68                          | 52 | 64  | 63  | 55  | 47   | 52   | 57 50     |

