

**NEW  
MODELS**



Designed to be installed on the fans discharge side. The minimum air speed through the heater must be 2 m/s.

Maximum air temperature through the heater: 40°C.

The batteries are fitted with:

- Armoured heating element
- Double protection circuit to connect to the battery control circuit by means of a safety overheat automatic thermostat connected in series with another safety overheat manual reset thermostat (RESET).
- Wiring box IP43

Available temperature sensors in the duct, ambient temperature sensors and speed controllers to complete the installation and to adjust the air temperature according to every need. By means of this system the supplied air can reach up to 50°.

(See the electrical accessories section).

#### SELECTION EXAMPLE

##### DATA:

- Airflow: 700 m<sup>3</sup>/hr (Q)
- Temp. of supplied air: 5° C
- Temp. of exhausted air: 27° C

##### ELECTRIC HEATER POWER REQUIRED:

$$P = Q \times 0,36 \times \Delta T = 700 \times 0,36 \times 22 = 5544 \text{ W}$$

##### SELECTION OF MBE-200/50T or MBE-250/60T

##### (Diagram 2) HEATER:

The final selection depends on:

- Total system pressure drop
- Desired sound level
- Available space

#### Pressure drop $\Delta P$ (PA)

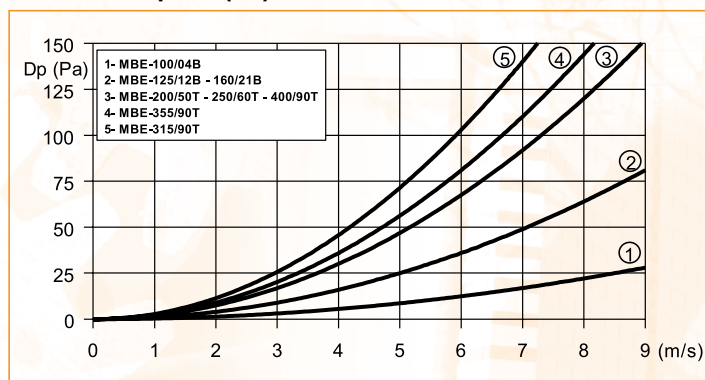


Diagram 1

#### Temperature difference $\Delta T$ between supplied and exhausted air (°C)

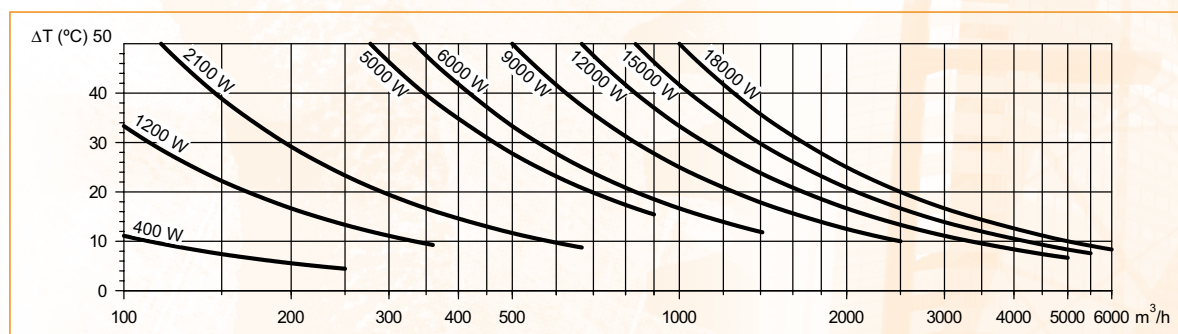


Diagram 2

## ■ Technical characteristics

| Models       | Voltage<br>(V) | Power<br>(W) | Minimum<br>airflow<br>(m <sup>3</sup> /s) | Ø<br>(mm) | Controller<br>type |
|--------------|----------------|--------------|-------------------------------------------|-----------|--------------------|
| MBE-100/04B  | 1/230          | 400          | 50                                        | 100       | PULSER             |
| MBE-100/08B  | 1/230          | 800          | 50                                        | 100       | PULSER             |
| MBE-125/04B  | 1/230          | 400          | 70                                        | 125       | PULSER             |
| MBE-125/08B  | 1/230          | 800          | 70                                        | 125       | PULSER             |
| MBE-125/12B  | 1/230          | 1200         | 70                                        | 125       | PULSER             |
| MBE-160/07B  | 1/230          | 700          | 110                                       | 160       | PULSER             |
| MBE-160/14B  | 1/230          | 1400         | 110                                       | 160       | PULSER             |
| MBE-160/21B  | 1/230          | 2100         | 110                                       | 160       | PULSER             |
| MBE-200/21B  | 1/230          | 2100         | 170                                       | 200       | PULSER             |
| MBE-200/20T  | 2/400          | 2000         | 170                                       | 200       | PULSER             |
| MBE-200/30T  | 2/400          | 3000         | 170                                       | 200       | PULSER             |
| MBE-200/40T  | 2/400          | 4000         | 170                                       | 200       | PULSER             |
| MBE-200/50T  | 2/400          | 5000         | 170                                       | 200       | PULSER             |
| MBE-200/60T  | 2/400          | 6000         | 170                                       | 200       | PULSER             |
| MBE-200/90T  | 3/400          | 9000         | 170                                       | 200       | TTC-25             |
| MBE-250/20T  | 2/400          | 2000         | 270                                       | 250       | PULSER             |
| MBE-250/30T  | 2/400          | 3000         | 270                                       | 250       | PULSER             |
| MBE-250/40T  | 2/400          | 4000         | 270                                       | 250       | PULSER             |
| MBE-250/50T  | 2/400          | 5000         | 270                                       | 250       | PULSER             |
| MBE-250/60T  | 2/400          | 6000         | 270                                       | 250       | PULSER             |
| MBE-250/90T  | 3/400          | 9000         | 270                                       | 250       | TTC-25             |
| MBE-315/30T  | 2/400          | 3000         | 430                                       | 315       | PULSER             |
| MBE-315/60T  | 2/400          | 6000         | 430                                       | 315       | PULSER             |
| MBE-315/90T  | 3/400          | 9000         | 430                                       | 315       | TTC-25             |
| MBE-315/120T | 3/400          | 12000        | 430                                       | 315       | TTC-25             |
| MBE-315/150T | 3/400          | 15000        | 430                                       | 315       | TTC-25             |
| MBE-355/60T  | 2/400          | 6000         | 540                                       | 355       | PULSER             |
| MBE-355/90T  | 3/400          | 9000         | 540                                       | 355       | TTC-25             |
| MBE-355/120T | 3/400          | 12000        | 540                                       | 355       | TTC-25             |
| MBE-355/150T | 3/400          | 15000        | 540                                       | 355       | TTC-25             |
| MBE-355/180T | 3/400          | 18000        | 540                                       | 355       | TTC-40F            |
| MBE-400/60T  | 2/400          | 6000         | 680                                       | 400       | PULSER             |
| MBE-400/90T  | 3/400          | 9000         | 680                                       | 400       | TTC-25             |
| MBE-400/120T | 3/400          | 12000        | 680                                       | 400       | TTC-25             |
| MBE-400/150T | 3/400          | 15000        | 680                                       | 400       | TTC-25             |
| MBE-400/180T | 3/400          | 18000        | 680                                       | 400       | TTC-40F            |
| MBE-500/60T  | 2/400          | 6000         | 1070                                      | 500       | PULSER             |
| MBE-500/90T  | 3/400          | 9000         | 1070                                      | 500       | TTC-25             |
| MBE-500/120T | 3/400          | 12000        | 1070                                      | 500       | TTC-25             |
| MBE-500/150T | 3/400          | 15000        | 1070                                      | 500       | TTC-25             |
| MBE-500/180T | 3/400          | 18000        | 1070                                      | 500       | TTC-40F            |

## ■ Dimensions (mm)

