

# Munters Euroemme EC

## Air extraction fans

The EC series is one of the most renowned cone fan families, delivering exceptional performance in livestock farming (broiler, layer, swine, dairy) as well as greenhouse applications.

### Benefits

- Superior durability with Munters Protect coating
- Fast and easy installation
- High airflow capacity
- Energy efficient solution, the EC50 E-line version saves up to 50% on electricity costs
- Suited for tunnel ventilation, especially in large structures

The EC 50-52 exhaust cone fans are the ideal choice for large livestock houses and greenhouses, meeting the growing demand for higher power and long-lasting reliability. Thanks to their peculiar cone and propeller design, EC fans ensure high airflow capacity and low energy consumption.

The housing, cone, conveyor, and shutters are made of Munters Protect coated steel for greater strength and resistance against corrosion. Central hub and V-belt pulley are made of die-cast aluminum.

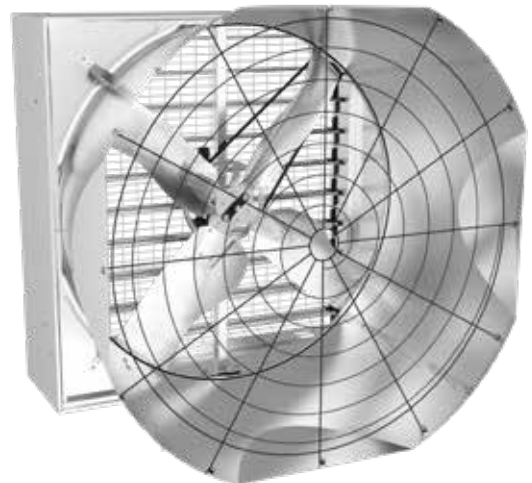
The patented centrifugal system provides an energy efficient solution and powerful springs keep shutters tightly closed when the fan is not turned on, avoiding air leakage and blocking light. The EC50 E-line model reduces power consumption by up to 50% compared to the same fan with AC motor, while enabling speed regulation.

The cone is made up of four detachable sections that can be quickly and easily assembled on site, significantly reducing transportation volume and costs. In addition, the EC52 cone features a space-saving design that optimizes installation, especially when multiple fans are mounted on the same wall.

As the market leader in ventilation solutions for more than 60 years, GrainProteinTech Climate Control & Air Treatment guarantees quality and is ISO 9001 certified.



EC50 E-line



EC52

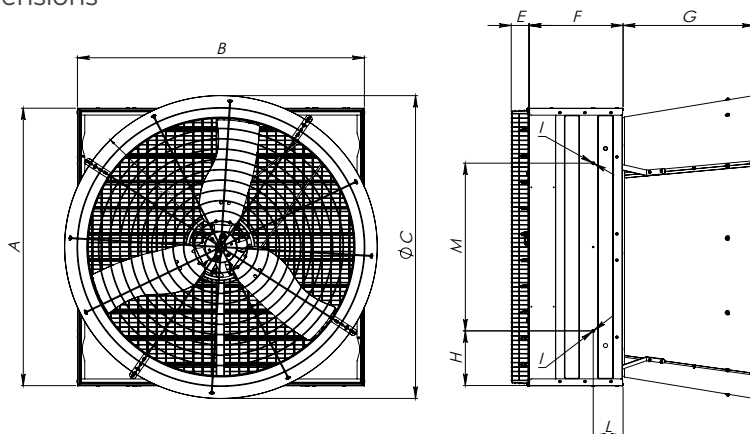


Proudly manufactured with 100% renewable energy in our plants in Italy

# Munters Euroemme EC50

## AC motor

### Dimensions



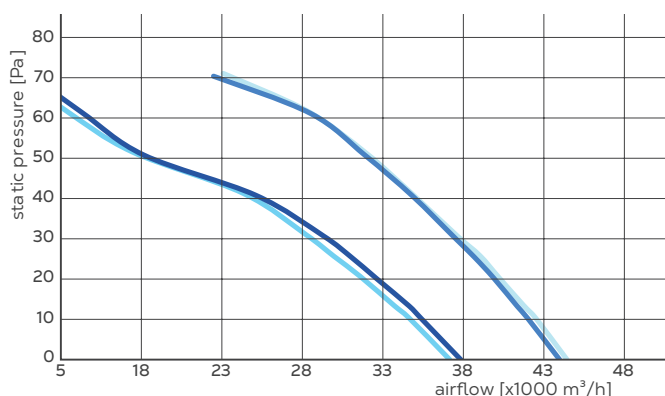
|   | EC50    |
|---|---------|
| A | 1380 mm |
| B | 1380 mm |
| C | 1500 mm |
| D | -       |
| E | 90 mm   |
| F | 450 mm  |
| G | 630 mm  |
| H | 275 mm  |
| I | M8      |
| L | 143 mm  |
| M | 830 mm  |

### Technical specifications

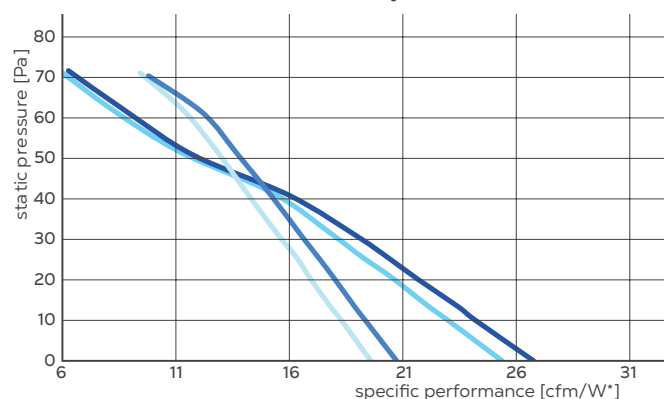
|  |           | EC50 Belt 1.0     | EC50 Belt 1.5 |
|--|-----------|-------------------|---------------|
| Nominal power                                  | hp        | 1.0               | 1.5           |
| Propeller diameter                             | mm [inch] | 1270 [50]         |               |
| Number of blades/material                      |           | 3/Munters Protect |               |
| Number of shutter blades                       |           | 10                |               |
| Motor/drive type                               |           | AC/Belt           |               |
| Weight of fully equipped fan                   | kg        | 106               | 108           |
| Max power consumption/max current <sup>1</sup> | W/A       | 1150/2.1          | 1810/2.9      |
| Max operating temperature                      | °C [°F]   | 50 [122]          |               |
| Max operating pressure                         | Pa        | 50                |               |
| Motor insulation grade/protective class        |           | F/IP55            |               |
| Noise level <sup>2</sup>                       | Db(a)     | 69.7              | 75.2          |

<sup>1</sup>50 Hz 400 V specification, 60 Hz available upon request, <sup>2</sup>Noise measure made according to ISO 3744

Airflow



Efficiency



EC50 Belt 1.0

■ IE3 1.0 hp      ■ IE1 1.0 hp

EC50 Belt 1.5

■ IE3 1.5 hp      ■ IE1 1.5 hp

Airflow and efficiency tested in the test chamber in accordance with ANSI/AMCA 210/15 Standard, certified by BESS Lab. \*1 cfm/W = 1.7 (m³/h)/W

### Load capacity

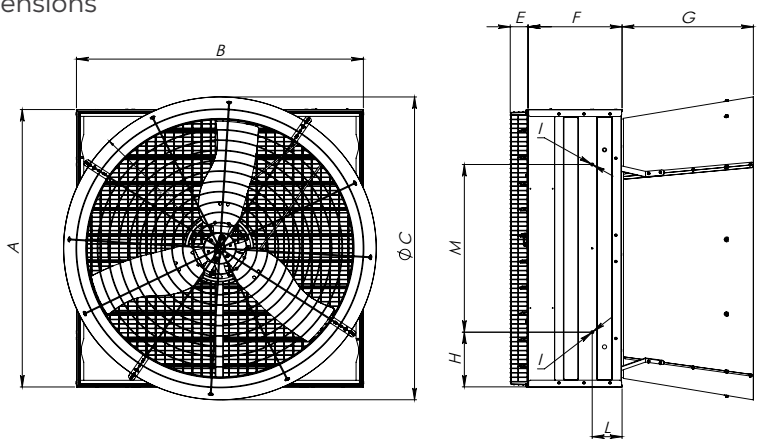
|                  | EC50 Belt 1.0/1.5 |           |
|------------------|-------------------|-----------|
|                  | Unassembled       | Assembled |
| 40' HC container | 220               | 39        |
| 13.6 m truck     | 245               | 44        |

Pyramidal mesh for installation below 2.7 m available upon request.

# Munters Euroemme EC50

## E-line

### Dimensions

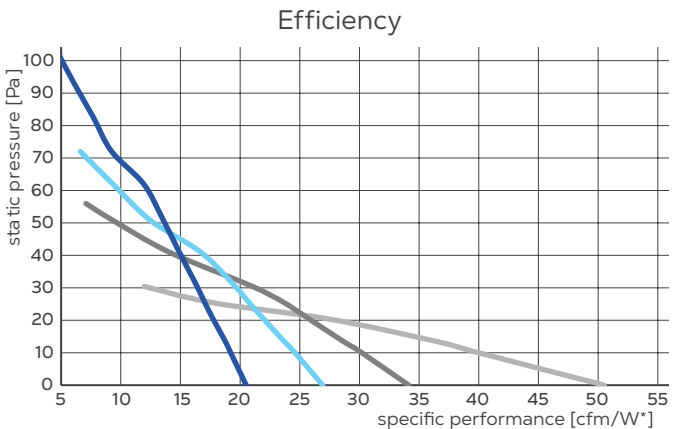
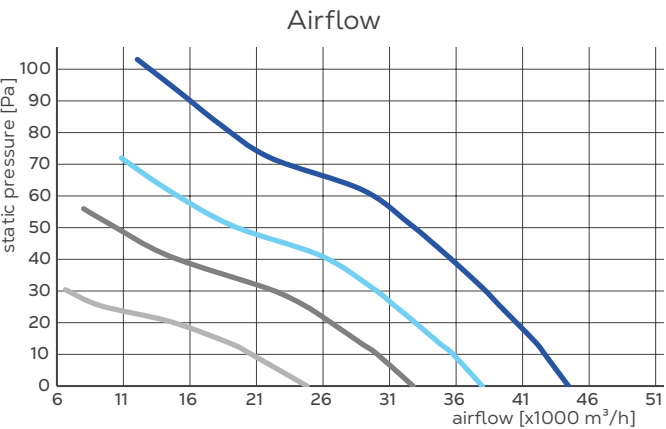


|   | EC50    |
|---|---------|
| A | 1380 mm |
| B | 1380 mm |
| C | 1500 mm |
| D | -       |
| E | 90 mm   |
| F | 450 mm  |
| G | 630 mm  |
| H | 275 mm  |
| I | M8      |
| L | 143 mm  |
| M | 830 mm  |

### Technical specifications

|  |           | EC50 E-line       |
|--|-----------|-------------------|
| Nominal power                                  | hp        | 1.6               |
| Propeller diameter                             | mm [inch] | 1270 [50]         |
| Number of blades/material                      |           | 3/Munters Protect |
| Number of shutter blades                       |           | 10                |
| Motor/drive type                               |           | EC/Belt           |
| Weight of fully equipped fan                   | kg        | 109               |
| Max power consumption/max current <sup>1</sup> | W/A       | 1600/3.1          |
| Max operating temperature                      | °C [°F]   | 50 [122]          |
| Max operating pressure                         | Pa        | 50                |
| Motor insulation grade/protective class        |           | H/IP66            |
| Noise level <sup>2</sup>                       | Db(a)     | 75.1              |

<sup>1</sup>400 V specification, <sup>2</sup>Noise measure made according to ISO 3744



EC50 E-line

504 rpm 427 rpm 366 rpm 260 rpm

Airflow and efficiency tested in the test chamber in accordance with ANSI/AMCA 210/15 Standard, certified by BESS Lab. \*1 cfm/W = 1.7 (m³/h)/W

### Load capacity

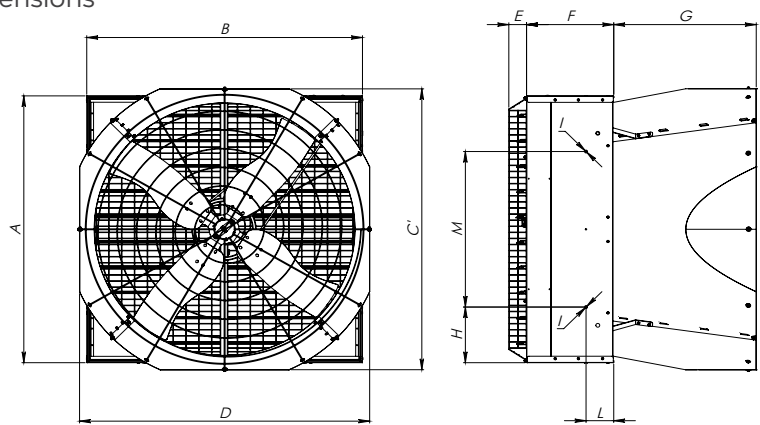
|                  | EC50 E-line |           |
|------------------|-------------|-----------|
|                  | Unassembled | Assembled |
| 40' HC container | 220         | 39        |
| 13.6 m truck     | -           | 82        |

Pyramidal mesh for installation below 2.7 m available upon request.

# Munters Euroemme EC52

## AC motor

### Dimensions



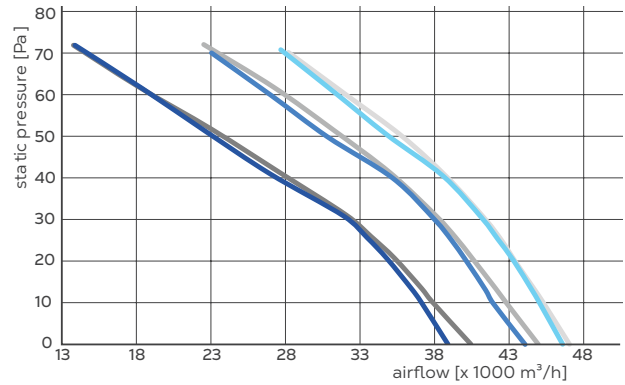
|    | EC52    |
|----|---------|
| A  | 1425 mm |
| B  | 1425 mm |
| C' | 1500 mm |
| D  | 1500 mm |
| E  | 95 mm   |
| F  | 450 mm  |
| G  | 740 mm  |
| H  | 298 mm  |
| I  | M8      |
| L  | 143 mm  |
| M  | 830 mm  |

### Technical specifications

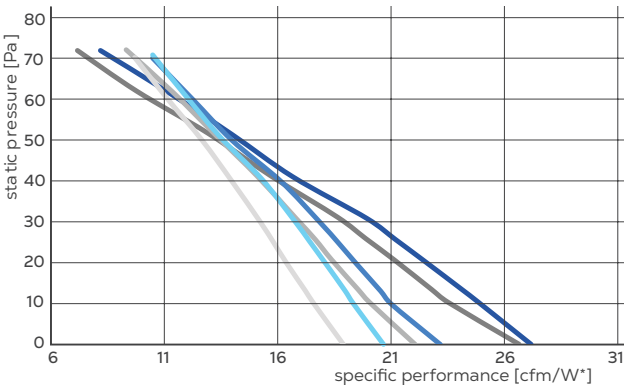
|  |           | EC52 Belt 1.0     | EC52 Belt 1.5 | EC52 Belt 2.0 |
|--|-----------|-------------------|---------------|---------------|
| Nominal power                                  | hp        | 1.0               | 1.5           | 2.0           |
| Propeller diameter                             | mm [inch] | 1335 [52]         |               |               |
| Number of blades/material                      |           | 4/Munters Protect |               |               |
| Number of shutter blades                       |           | 10                |               |               |
| Motor/drive type                               |           | AC/Belt           |               |               |
| Weight of fully equipped fan                   | kg        | 108               | 111           | 112           |
| Max power consumption/max current <sup>1</sup> | W/A       | 1180/2.2          | 1700/3.2      | 1800/3.4      |
| Max operating temperature                      | °C [°F]   | 50 [122]          |               |               |
| Max operating pressure                         | Pa        | 50                |               |               |
| Motor insulation grade/protective class        |           | F/IP55            |               |               |
| Noise level <sup>2</sup>                       | Db(a)     | 67.2              | 69.8          | 71.1          |

<sup>1</sup>50 Hz 400 V specification, 60 Hz available upon request, <sup>2</sup>Noise measure made according to ISO 3744

Airflow



Efficiency



| EC52 Belt 1.0 | EC52 Belt 1.5 | EC52 Belt 2.0 |
|---------------|---------------|---------------|
| IE3 1.0 hp    | IE1 1.0 hp    | IE3 1.5 hp    |
|               | IE1 1.5 hp    | IE3 2.0 hp    |
|               |               | IE1 2.0 hp    |

Airflow and efficiency tested in the test chamber in accordance with ANSI/AMCA 210/15 Standard, certified by BESS Lab. \*1 cfm/W = 1.7 (m³/h)/W

### Load capacity

|                  | EC52 Belt 1.0/1.5/2.0 |           |
|------------------|-----------------------|-----------|
|                  | Unassembled           | Assembled |
| 40' HC container | 200                   | 39        |
| 13.6 m truck     | 237                   | 41        |

Pyramidal mesh for installation below 2.7 m available upon request.