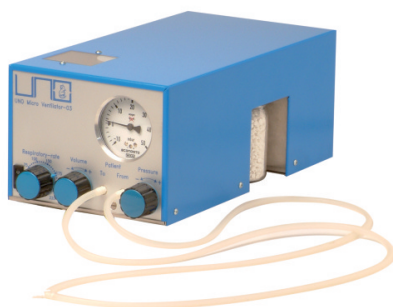




**CARFIL QUALITY**  
YOUR SUPPLIER FOR ALL LABORATORY NEEDS

## Micro Ventilator UMV-03



### Features

The UNO Micro Ventilator-03 is a mechanical ventilator uniquely designed for use with mice and rats for respiratoric support or totally controlled inhalation anaesthetic.

This revolutionary new concept of mechanical ventilation with an extreme small dead volume, has a proven performance, even with **mice of  $\geq 15$  gr. bodyweight.**

The ventilation pattern of the UMV-03 is based on the natural, spontaneous respiratory pattern of rat and mouse, i.e. a **SINUS-form** without a plateau pressure.

The UMV-03 is a **pressure-**, **volume-** and **frequency** cycled ventilator which can very easily be integrated in a flowmeter / vaporizer set-up.

- |                                                                      |                           |
|----------------------------------------------------------------------|---------------------------|
| • Tidal Volume setting at the ventilator (without counter pressure). | 0,1 - 24ml                |
| • Inspiratory to expiratory ratio                                    | 1 : 1 (= sinus form)      |
| • Effective volume (with counter pressure & endotracheal tube)       | 0,0ml - 12ml              |
| • Frequency (respiratory rate)                                       | 15 - 220/min.             |
| • Minimum and Maximum pressure setting                               |                           |
| • Pressure settings                                                  | $\geq 0$ mbar - up        |
| • External P.E.E.P.                                                  | possible                  |
| • Circle system with CO2 Absorber                                    |                           |
| • Easily to be connected to a flowmeter / vaporizer unit             |                           |
| • Distance between UMV and animal position                           | upto 1 meter <sup>2</sup> |

*1 Depending on the size of endotracheal tube used.*

*2 If distance is more than 1 meter the local situation has to be checked and an extra valve could be necessary.*



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## Ordering number

|                      | Bestelnummer |                               |  | Bestelnummer |                                    |
|----------------------|--------------|-------------------------------|--|--------------|------------------------------------|
|                      | 180000023    | UMV-03 UNO<br>Microventilator |  | 180000009    | Small artificial<br>Lung           |
| Dimensions           |              |                               |  |              | - used for setting<br>up to UMV-03 |
| Weight               |              |                               |  |              |                                    |
| Power                |              |                               |  | MX00001/1L   | CO <sup>2</sup> Absorber -<br>1L   |
| Inlet connection     |              | ID 5 mm                       |  |              |                                    |
| Outlet<br>connection |              | IS 5 mm                       |  |              |                                    |



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