



Mouse Ventilator

Cat. No. 28025

General

This new Respirator, which completes the well known Ugo Basile line of Ventilators, features:-

- The **tidal volume**, in the range 0.1-1 ml (or 0.05-0.5 with the smaller piston installed), can be selected via its knob whether the respirator is on or off.
- The **rate**, selected by a knob, is indicated by a 3-digit solid state display, in the range 60-300 strokes per minute.
- Suitable channels and ports provide the switching of the air flow, with practically **no dead space**.
- A unique **variable stroke linkage** mechanism operates the piston.

The reciprocating motion is adjusted and transmitted to the piston by rods and articulated joints only, which leads to minimal wear, no backlash, silent operation and exact stroke reproducibility.



Unique Design

Compact Andreliable

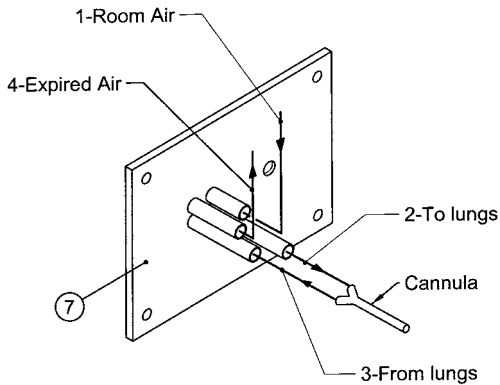
Purely mechanical:
sturdy and reliable!

Main Features

- Ideal for use with mice, small birds and perinatal rats
- Optional 0.5 ml cylinder/piston assembly
- Purely mechanical, with impeccable finishing: lifetime lasting
- Quiet operation and negligible electrical noise

The instrument is compact and light, cm 20x13x18.5 and 2.5 Kg, see picture, and it is self-contained: in other words, it embodies its power supply which feeds the geared motor, its feedback controller and the rate display.

The Connection Square



As illustrated in the drawing above, and pictured below, a connection square of four ports include:-

1. intake of air or any other non-explosive gas mixture,
2. delivery of air to the animal lungs,
3. return from animal,
4. and exhaust, for sampling, partial recycling, testing positive expiration pressure, etc.

so closely packed, that the connection tubes are cut in different lengths, to ease the insertion of the tubing.



28015 Back Front

Start / Stop Model

A Mouse Ventilator version is available, Cat. 28125, which embodies a controlled pause feature.

The synchronised START/STOP function gives the operator a means to stop and restart the respirator at "full lungs" point, via an external trigger pulse, when it is beneficial if not essential to minimize any extraneous movement of the anesthetized animal during electro-

physiological recording, X-ray and imaging, etc.

Specifications

Rate	60 to 300 strokes for minute
Rate Read-out	on digital display
Stroke Volume	0.1 to 1 ml (with standard 1 ml piston)
	0.05 to 0.5 ml (with optional 0,5 ml piston installed)
Stroke Volume Scale	precision engraved, 0.05 ml divisions
Stroke Volume Reproducibility	±2%
Start-Stop (model 28125 only)	by synchronised command
Power Requirements	115 or 230v, 50/60 Hz 10 VA max.
Dimensions	20 x 13 x 18.5 cm
Net weight	Kg 2.20
Shipping Weight	Kg 5.00 approx.

Ordering Information

28025 MOUSE VENTILATOR, complete with 0.5 or 1 ml cylinder/piston assembly (according to order) and following standard accessories :-

- 28025-010** 1 ml Cylinder/piston assembly, complete with its base plate
- 28025-005** 0.5 ml, as above
- 28025-301** Dust Cover
- 28025-302** Instruction Manual
- 28025-321** Perspex Vertical Lid
- 28025-322** Oiler
- 28025-323** Cannula -Y connection, tubes, etc., in a plastic case
- 28025-324** Set of wrenches
- E-WP008** Mains Cord
- Set of 2 fuses for either 230V or 115V operation

Options

28125 Mouse Ventilator, special model with synchronised START/STOP feature, complete with the same set of standard accessories as Ventilator 28025

28025-320 Animal Operating Table

Bibliography

- S. Finotto et alia: "**E**Asthmatic Changes in Mice lacking T-bet are mediated by IL-13" *Intl. Immunology* 17, No. 8: 993-1007, 2005