



Cat/Rabbit Ventilators

Cat. No. 6025

General

The 6025 Rodent Ventilator is a volume-controlled mechanical ventilator (according to Starling's ventilation method), designed for use with cats, rabbits and animals of similar size.

The drive of the ventilators consists of a variable speed geared motor linked by a novel variable stroke mechanism to easily interchangeable cylinder/piston assemblies.

In particular, **the 6025 can be equipped with 50 or 100ml assembly.**

Their precisely regulated geared-motor speed provides the most accurate and reliable stroke rate control of any respirator available

The operation of the 6025 may be "paused" by an external TTL logic signal.

For more demanding electrophysiological-pharmacological investigations, in particular when the operation of the Ventilator is software controlled, a synchronised command is available to START-STOP the Ventilator at completed forced inspiration.



**Purely Mechanical
Starling's Pumps**

**THE CHOICE OF
THE CRITICS!**

Main Features

- Interchangeable cylinder/piston assemblies (50, 100 ml)
- Quiet operation, both acoustically and electrically (negligible R.F. broadcasting)
- Purely mechanical with impeccable finishing: lifetime lasting

The unique linkage mechanism insures that:-

- 1) The piston almost touches the cylinder end with each stroke, regardless of the pre-set volume, thus insuring all air taken into the pump is expelled with each stroke.
- 2) The volume, clearly indicated on a **stationary dial**, is adjustable by means of a knob while the pump is either running or at standstill.
- 3) The reciprocating motion is generated, adjusted and transmitted to the piston by rods and articulated joints only.

The lack of sliding friction leads to:-

- a) practically no wear
- b) no backlash and hence silent operation and exact stroke reproducibility.

Hook-up to animal

Four ports (Intake, To Animal, From Animal and Exhaust) allow flexibility in air channelling. The input may be room air or any non-explosive gas mixture. The exhaust air may be partially or totally recycled or collected for analysis.

Ventilator Controls

The speed control knob adjusts the geared motor to the de-sired speed, which is indicated on the 3-digit LED display la-belled STROKES P.M.

Specifications

Rate :	10 to 100 strokes for minute
Rate Read-out :	digital display
Stroke Volume :	10 to 50 or 20 to 100 ml depending on cylinder/piston installed
Stroke Vol. Scale :	10-50 ml
Stroke Vol. Reprod. :	±2%
Power Requirements :	115 or 230V, 50/60 Hz, 40 VA max.
Dimensions :	27 x 25.5 x 18.5 cm
Net weight:	Kg 10.5
Shipping Weight:	Kg 16 approx.

Ordering Information

6025 CAT/RABBIT VENTILATOR, with standard accessories and 50 ml cylinder/piston assembly

6025-100 CAT/RABBIT VENTILATOR, as above, 100ml

6026 50 ml Cylinder/piston assembly, complete

6027 100 ml Cylinder/piston assembly, complete

6028 Set of 2 Lip-Seal Rings for 50 ml piston

6029 Set of 2 Lip-Seal Rings for 100 ml piston

Special models for synchronised START/STOP

6125 Cat/Rabbit Ventilator, 50 ml

6125-100 Cat/Rabbit Ventilator, 100ml

Standard Accessories & Spares

common to 6025 and 7025 models, supplied with standard package

7031 Oiler

7032 Perspex Lid

7033 Lithium-Grease Tube

7034 Set of 3 Hex. Wrenches (2, 2.5, 3 mm)

7036 Dust Cover

7038 Set of 2 Miniature Banana Plugs (TTL Start-Stop)

7039 Power Cord

Set of fuses for either 230V or 110V operation

Bibliography

- F. Lembeck et alia: "Effects of Endothelin on the Car-diovascular System and on Smooth Muscle Prepara Preparations in Different Species" Arch. of Pharmacol. 340: 744-751, 1989
- J. Lundgren et alia: "Ischemia in Normoglycemic and Hyperglycemic Rats: Plasma Energy Substrates and Hormones" American Physiol. Soc.: E767-E774, 1990
- L. Ballati et alia: "Effects of Selective Tachykinin Receptor Antagonists of Capsaicin- and Tachykinin-induced Bronchospasm in Anaesthetised Guinea-Pigs" Eur. J. Pharmacol. 214: 215-221, 1992