



UGO BASILE

biological research apparatus

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6025 - Cat/Rabbit Ventilators

Cat. No. 6 0 2 5

Compact and reliable
Starling's Pumps, featuring: -

- quiet operation
- negligible R.F. broadcasting
- impeccable finishing

The 6025 Cat/Rabbit Ventilator is a positive pressure pump (according to Starling's Ventilator method), designed for use with cats and rabbits.

The drive of this Ventilator 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 100 ml cylinder/piston assembly.

Their geared-motor speed is precisely regulated by a feedback controller, thus providing the most accurate and reliable stroke rate control of any respirator available. Care has been taken to insure that electronic noise broadcasting is negligible.

The operation of Ventilator 6025 may be "paused" by an external TTL logic signal. For more demanding electrophysiological-pharmacological investigations, a synchronised command is available to START-STOP the Ventilator at completed forced inspiration. This feature is particularly useful when the operation of the Ventilator is software controlled. Ask for special model Cat. 6125.

The unique linkage mechanism insures that: -

- 1) The piston almost touches the cylinder end with each stroke, regardless of the pre-set volume. This insures that all air taken into the pump is expelled with each stroke.
- 2) The volume is adjustable by means of a knob while the pump is either running or at standstill. Volume is clearly indicated on a stationary dial.
- 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 desired speed, which is indicated on the 3-digit LED display labelled STROKE P.M.

SPECIFICATION

Rate : 10 to 100 strokes for minute
Rate Read-out : digital display
Stroke Volume : 10 to 50 or 20 to 100
depending on cylinder/piston installed
Stroke Volume Scale : 10-50 ml
Stroke Volume
Reproducibility : $\pm 2\%$
Start-Stop : via TTL command
(see also special model 6125)
Power Requirements : 115 or 230v, 50/60 Hz
40 VA max.
Operating Temperature : 10°C to 40°C
Dimensions : 27 x 25.5 x 18.5 cm
Net weight : Kg 10.5
Shipping Weight : Kg 16 approx.

BIBLIOGRAPHY

- § F. Lembeck et alia: "Effects of Endothelin on the Cardiovascular System and on Smooth Muscle Preparations in Different Species" Arch. of Pharmacol. 340: 744-751, 1989
§ C. Touvay et alia: "Bronchopulmonary and Vascular Effect of Endothelin in the Guinea-Pig" Eur. J. Pharmacol. 176: 23-33, 1990
§ A. Subissi: "Angiotensin Converting Enzyme Inhibitors Potentiate the Bronchoconstriction Induced by Substance P in the Guinea-Pig" Br. J. of Pharmacol. 100: 502-506, 1990
§ 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

ORDERING INFORMATION

- 6025** CAT/RABBIT VENTILATOR, complete with standard accessories and 50 or 100 ml cylinder/piston assembly, according to order
6026 50 ml Cylinder/piston assembly, complete with gudgeon
6027 100 ml, as above
6028 Set of 2 Lip-Seal Rings for 50 ml piston
6029 Set of 2 Lip-Seal Rings for 100 ml piston
6030* Valve Block, complete with spindle, gudgeon and two open washers
6035* 6025 Instruction Manual

OPTIONS

- 6125** Cat/Rabbit Ventilator, special model provided with suitable circuit and BNC connector for synchronised START/STOP

ACCESSORIES

- 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
- 7041*** T800 Fuses for 230V operation
- 7042*** T1.6 Fuses for 115V operation

* Standard accessories, supplied with the instrument, including either 7041 or 7042 according to the selected mains voltage (please specify it in your order!)

& Ask for the comprehensive Instruction Manual which includes operation cues, ample bibliography, drawings & schematics!

SEE ALSO

- 28025** Mouse Ventilator
- 7025** Rodent ventilator
- 5025** Dog ventilator

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