

HSE-HA Small Animal Pressure Controlled Ventilator KTR-4



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Rear view of ventilator KTR-4



The ventilator is delivered with the tracheal cannula adapter (BS4 73-2943) and two cannulae with 2.5mm (BS4 73-2725) and 3.0mm (BS4 73-2724) OD. All cannulae with Luer connector for tracheotomy or intubation can be connected to this adapter, see pages F54 and F55.

For larger animals like rabbits or small cats, special cannulae with 4.0mm (BS4 73-2938), 5.0mm (BS4 73-2939) or 6.0mm (BS4 73-2940) are available.

Specifications

Ventilation Rate	1 to 199 breaths/min, digital setting
Ratio of Insp / Exp	1 to 99%, digital setting
Plateau Duration	0 to 99% (of total cycle time); measurements can be performed in the inspired condition
Adjustable Air Flow	4 L/min max
Minute Volume Range	up to 2000 ml/min ("INSPIR" = 50%).
Ambient Conditions:	
Operating Temperature	15 to 35°C
Storage Temperature	-10 to 50°C
Humidity	20 to 80%, no condensation
Supply	115/230 VAC, 50/60 Hz, 100 VA
Dimensions, H x W x D	36 x 15 x 34 cm (14.2 x 5.9 x 13.4 in)
Weight	8 kg (17.6 lbs)

Catalog No.	\$	Product
BS4 73-2160		Small Animal Ventilator KTR 4 with Built-In Pump for Internal Air Supply, 230 VAC
BS4 73-2965		Small Animal Ventilator KTR 4 with Built-In Pump for Internal Air Supply, 115 VAC
BS4 73-2937		Small Animal Ventilator KTR 4 without Pump, with Built-In Precision Pressure Regulator for External Air Supply, 230 VAC
BS4 73-3460		Small Animal Ventilator KTR 4 without Pump, with Built-In Precision Pressure Regulator for External Air Supply, 115 VAC
BS4 73-2941		Tracheal Cannula for Tracheotomy to KTR-4, 3.5 mm OD
BS4 73-2938		Tracheal Cannula for Tracheotomy to KTR-4, 4.0 mm OD
BS4 73-2942		Tracheal Cannula for Intubation to KTR-4, 4.5 mm OD
BS4 73-2939		Tracheal Cannula for Tracheotomy to KTR-4, 5.0 mm OD
BS4 73-2940		Tracheal Cannula for Tracheotomy to KTR-4, 6.0 mm OD
BS4 73-2943		Adapter for Tracheal and Intubation Cannulae with Luer to KTR4 Ventilator, pkg. of 5

Hugo Sachs Elektronik (HSE), a division of Harvard Apparatus, offers complete systems for Respiratory Mechanics Studies. The following models are available, please see our website or call for additional information.

Investigation of bronchial musculature in situ - Ideal for Fast Screening and Toxicology Studies

• EINTHOVEN

- Method by measuring airway pressure (constant-volume lung inflation)
- For measurement of lateral tracheal pressure
- Multiple channel version available for up to 8 animals

• KONZETT-ROESSLER

- Method by measuring the overflow volume (constant-pressure lung inflation)
- For bronchial overflow measurements
- More physiological and safer than Eintboven test

• Respiratory air flow or tidal volume measured directly with spontaneous respiration

- For measurement of bronchospasmolysis in anesthetized rodents
- Offers evaluation of typical respiratory parameters including resistance and compliance
- Method can also be performed with a single chamber Plethysmograph box

Extended evaluation of respiratory mechanics through measurement of flow, pressure and volume on the whole animal.

• Single Chamber Plethysmograph Box for Anesthetized Mice or Small Rodents

- Low dead space volume
- Temperature controlled chamber
- Esophageal pressure, flow and pressure are known, allows calculation of resistance and compliance

• Single Chamber Plethysmograph Box for Anesthetized Rat/Guinea Pig

- Low dead space volume
- No surgical intervention required beyond intubation
- Esophageal pressure, flow and pressure are known, allows calculation of resistance and compliance

• Dual Chamber Plethysmograph Box for Conscious Restrained Rat/Guinea Pig

- Specific Airway Resistance measurement in addition to standard respiratory parameters
- Option for aerosol challenge
- Ideal method for studying long term drug effects or environmental studies