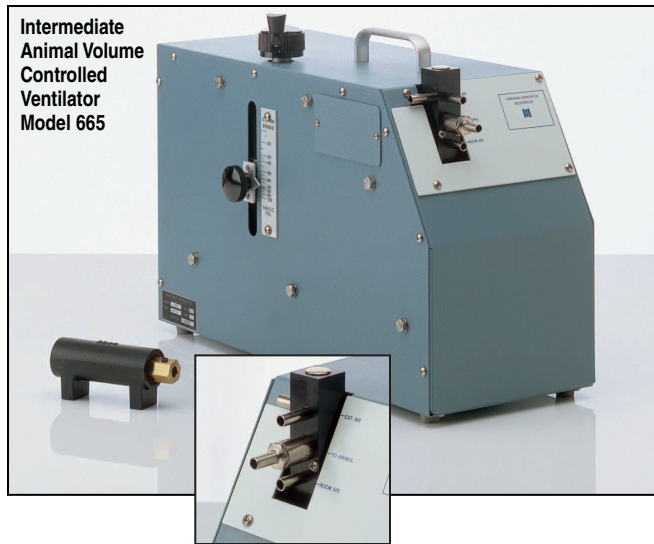


# Volume Controlled Ventilators

# ventilators



- For animals from 1 to 30 kg (2.2 to 66 lb) in body weight

## Intermediate Animal Volume Controlled Ventilator Model 665

This Ventilator is supplied with two interchangeable brass piston and cylinder assemblies. The piston travels to the end of the cylinder regardless of volume setting thus minimizing dead air space.

The smaller piston and cylinder assembly adjusts from 4 to 25 ml per stroke. The larger assembly adjusts from 17 to 100 ml per stroke. The rate is adjustable from 10 to 100 strokes/minute. The volume and rate are adjustable while the pump is running. Air/gas valving is by the four port system.

### Specifications

Tidal Volume	Adjustable from 4 to 100 ml/stroke while the Ventilator is running
Respiratory Rate	Adjustable from 10 to 100 breaths/min while the Ventilator is running
Phase Control	Percentage of inspiration can be adjusted from 35 to 65% of respiratory cycle while ventilator is running
Port Size:	
ID	6.4 mm (1/4 in)
OD	7.9 mm (5/16 in)
Dimensions, H x W x D	35 x 20 x 45 cm (14 x 8 x 18 in)
Weight	18 kg (37 lb)

### Order # Product

<b>DC1 55-0798</b>	Intermediate Animal Volume Controlled Ventilator, Model 665, 115 VAC, 60 Hz
<b>DC1 55-0806</b>	Intermediate Animal Volume Controlled Ventilator, Model 665A, 230 VAC, 50 Hz
<b>DC1 55-2810</b>	Overhaul Kit for Intermediate Animal Ventilator; Contains O-rings, Valve Springs, Lubricants, etc. to Overhaul Ventilator*

\*Overhaul Kit does not include cylinder

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- Stroke volumes of 0 to 2.5, 0 to 10 and 0 to 30 ml
- LED digital readout of rate and volume
- Extremely quiet operation
- Electromagnetically quiet (meets EMC-CIS-B regulation)
- Rate and stroke adjustable during ventilation

## Starling's Miniature 'Ideal' Ventilator

The Harvard Apparatus Starling 'Ideal' ventilator features negligible dead space, low noise, low wear and high reliability. The rate is indicated on a LED display. Both the rate and stroke can be changed while the ventilator is running. The fine pitch of the stroke control allows the stroke to be accurately set and the actual stroke is clearly displayed on a static pointer scale, not on the side of the piston, or moving scale.

Three different sizes are available: 0.25 to 2.5 ml, 1.0 to 10 ml and 3.0 to 30 ml. All air drawn into the pump is expelled on each stroke. The negligible dead space feature ensures that the piston reaches the end of the cylinder at the top of every stroke.

The speed of the motor is continuously monitored and regulated to maintain a constant stroke rate. The precision-machined valve assembly has four ports which provide maximum air channelling flexibility. The input may be room air or non-explosive gas mixtures. The exhaust air can be partially or completely recycled, or collected for analysis.

The Harvard Apparatus Starling 'Ideal' ventilator is designed to generate minimal electro-radiated noise and meet the stringent EMC CIS-B regulations for radiated noise, as well as other current CE directives.

### Specifications

Tidal Volume	0.25 to 2.5 , 1.0 to 10 or 3.0 to 30 ml, continuously variable
Respiratory Rate	10 to 200 breaths/min
Display	Digital readout of rate and volume
Port Size	OD 6.3 mm (1/4 in) ID 4.8 mm (3/16 in)
Certifications	Meets all EMC and CE requirements
Power	115 V, 60 Hz or 220 V, 50 Hz
Dimensions, H x W x D	20 x 29 x 31 cm (7.9 x 11.4 x 12.2 in)
Weight	10.6 kg (23.4 lb)

## Starling's Miniature 'Ideal' Ventilator

Volume	Voltage 115 VAC, 60 Hz	Voltage 220 VAC, 50 Hz
0 to 2.5 ml	<b>DC1 40-1000</b>	<b>DC1 40-1001</b>
0 to 10 ml	<b>DC1 40-1002</b>	<b>DC1 40-1003</b>
0 to 30 ml	<b>DC1 40-1004</b>	<b>DC1 40-1005</b>