

# Infuse Savings Into Your Experiments with Harvard Apparatus



Purchase a  
**PHD ULTRA™** or  
**Pump 11 Elite Series**  
Syringe Pump & receive  
a **FREE Hamilton™**  
**1000 or 1700 Series**  
**GASTIGHT®**  
Syringe

*Hamilton™ 1000  
and 1700 Series  
GASTIGHT® Syringes*

Harvard Apparatus has been the trusted name in ventilators for nearly 100 years. In keeping with our longstanding tradition of providing quality physiology products, we are proud to introduce a new ventilator into our product offering. The VentElite was designed for small animal research applications and is intended for use on subjects ranging in size from mice to guinea pigs. The goal in developing this ventilator was to maintain versatility and ease of use while fostering safe and physiologically accurate mechanical ventilation conditions.

For a limited time, receive 15% off select accessories with the purchase of the VentElite. This promotion cannot be combined with any other offer. Exclusions may apply. Please contact Technical Services or your local Harvard Apparatus Representative for restrictions.

*Pumps are for research only. Not for use on humans.*

 **Promotional Code: HAQ4S**  
**Offer Expires: December 15<sup>th</sup>, 2015**

| Order #                               | Description           |
|---------------------------------------|-----------------------|
| <b>1000 Series GASTIGHT® Syringes</b> |                       |
| <b>72-1831</b>                        | 1 ml PTFE LUER LOCK   |
| <b>72-1832</b>                        | 2.5 ml PTFE LUER LOCK |
| <b>72-1833</b>                        | 5 ml PTFE LUER LOCK   |
| <b>72-1834</b>                        | 10 ml PTFE LUER LOCK  |
| <b>72-1835</b>                        | 25 ml PTFE LUER LOCK  |
| <b>72-1836</b>                        | 50 ml PTFE LUER LOCK  |
| <b>72-1837</b>                        | 100 ml PTFE LUER LOCK |
| <b>1700 Series GASTIGHT® Syringes</b> |                       |
| <b>72-1781</b>                        | 50 ul PTFE LUER LOCK  |
| <b>72-1782</b>                        | 100 ul PTFE LUER LOCK |
| <b>72-1783</b>                        | 250 ul PTFE LUER LOCK |
| <b>72-1784</b>                        | 500 ul PTFE LUER LOCK |



# Combine & Save with Harvard Apparatus

Buy now  
and receive  
**10% discount**  
on a complete  
stereotaxic injection  
set-up\*

**NEW**  
Standard Stereotaxic  
Frame for Rats & Mice



Pump 11 Elite Nanomite  
Syringe Pump



**NEW**  
Homeothermic  
Monitoring System



Harvard Apparatus offers superior products to enhance life science research. We are pleased to offer this promotion to assist you in obtaining the best physiology instruments available at an affordable price.

\* Discount applies to eligible items listed in this promotion. A complete stereotaxic injection set up must be purchased to receive discount. A complete stereotaxic injection set up includes one of the New Standard Stereotaxic Instruments, the Pump 11 Elite Nanomite, and the new Homeothermic Monitoring System.

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| Order #                                  | Description  |
|--|--|
| <b>70-4507</b>                           | Pump 11 Elite Nanomite syringe pump**  |
| <b>55-7020</b>                           | Homeothermic Monitoring System, complete with control unit, flexible rectal probe, standard size heating pad, insulation pad |
| <b>New Standard Stereotaxic options:</b> |  |
| <b>72-6335</b>                           | New Standard Stereotaxic for Rats and Mice   |
| <b>72-6336</b>                           | Dual New Standard Stereotaxic for Rats and Mice  |
| <b>72-6338</b>                           | Digital New Standard Stereotaxic for Rats and Mice   |
| <b>72-6339</b>                           | Digital Dual New Standard Stereotaxic for Rats and Mice  |
| <b>72-6340</b>                           | Motorized New Standard Stereotaxic for Rats and Mice   |

\*\*Syringe sold separately

**Promotional Code: HAAPF**  
Offer Expires: December 15<sup>th</sup>, 2015



# VentElite

## Ventilator for Small Rodents



Purchase the  
**NEW** Harvard  
Apparatus VentElite  
and receive a  
**15% discount**  
off our most popular  
accessories

### KEY FEATURES

- **Easy to use color touchscreen**
- **Option for pressure or volume control in a single ventilator**
- **Over and under pressure alarms**
- **Manual or programmable Sigh**
- **Inspiratory or Expiratory Hold**
- **Adjustable I:E**

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For a limited time, receive 15% off select accessories with the purchase of the VentElite. This promotion cannot be combined with any other offer. Exclusions may apply. Please contact Technical Services or your local Harvard Apparatus Representative for restrictions.

| Order # | Description                       |
|---------|-----------------------------------|
| 55-7040 | VentElite small animal ventilator |

**Promotional Code: HAVE1**  
Offer Expires: December 15<sup>th</sup>, 2015

# Harvard Apparatus VentElite Ventilator for Small Rodents

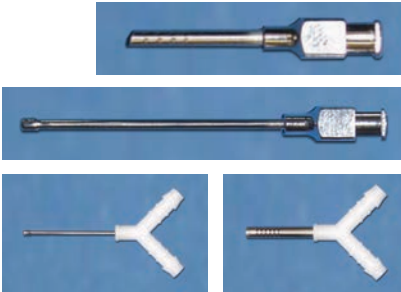
## ACCESSORIES



### Connection Kit

Used to connect the ventilator with a compressed gas source.

| Order # | Description    |
|---------|----------------|
| 73-3077 | Connection kit |



### Cannulae

The tracheal cannula is used in a tracheotomy for general ventilation or respiratory mechanics studies. The intubation cannulae is used in chronic studies where the animal will be intubated. The outside diameter of the cannula must ensure a tight fit to the animal's trachea. These cannula have either a molded Y-adapter, which allows for minimal dead space when connecting to a ventilator, or a luer-adapter for use with any luer style connections.

| OD (mm) | Animal         | Tracheotomy Cannulae |        |                   |        | Intubation Cannulae |        |                   |        |
|---------|----------------|----------------------|--------|-------------------|--------|---------------------|--------|-------------------|--------|
|         |                | with Y-Adapter       | Length | with Luer Adapter | Length | with Y-Adapter      | Length | with Luer Adapter | Length |
| 1.0     | mouse          | STI 73-2731*         | 13     | STI 73-2835       | 8      | STI 73-2737*        | 24     | STI 73-2848       | 26     |
| 1.1     | mouse          | –                    | –      | –                 | –      | STI 73-2843*        | 24     | STI 73-2849       | 26     |
| 1.2     | mouse          | STI 73-2830*         | 13     | STI 73-2836       | 8      | STI 73-2844*        | 27     | STI 73-2850       | 27     |
| 1.3     | mouse          | STI 73-2730*         | 13     | STI 73-2837       | 9      | –                   | –      | –                 | –      |
| 1.5     | small rat      | STI 73-4112+         | 15     | STI 73-2729       | 10     | STI 73-4115+        | 32     | STI 73-2851       | 32     |
| 1.8     | small rat      | STI 73-4113+         | 15     | STI 73-2728       | 13     | STI 73-4116+        | 35     | STI 73-2852       | 35     |
| 2.0     | small rat      | STI 73-4114+         | 20     | STI 73-2727       | 13     | STI 73-4117+        | 45     | STI 73-2853       | 45     |
| 2.3     | rat/guinea pig | STI 73-2834#         | 20     | STI 73-2726       | 14     | STI 73-2847#        | 45     | STI 73-2854       | 45     |
| 2.5     | rat/guinea pig | STI 73-2732#         | 20     | STI 73-2725       | 17     | STI 73-2739#        | 45     | STI 73-2855       | 45     |
| 3.0     | rat/guinea pig | STI 73-2733#         | 20     | STI 73-2724       | 20     | STI 73-2740#        | 53     | STI 73-2856       | 53     |



### Y-Luer Adapter

These Y-Luer Adapters are for use in general ventilation or respiratory mechanics studies.

| Order #     | Product  |
|-------------|--|
| STI 73-4118 | Adapter for Luer cannulae with Miniature Y-adapter for tubing ID 1.5 to 2.2 mm (e.g. MicroVent & MiniVent) |
| STI 73-4121 | Adapter for Luer cannulae with Y-adapter for tubing ID 2.5 to 3.4 mm (e.g. MidiVent)                       |
| STI 73-4122 | Adapter for Luer cannulae with Y-adapter for tubing ID 3.3 to 4.6 mm                                       |

\* Micro Y-adapter for tubing ID 1.5 to 2.2 mm • Miniature Y-adapter, for tubing ID 2.5 to 3.4 mm  
# Medium Y-adapter, for tubing ID 6 to 7.4 mm



### Tygon® Laboratory Tubing (E-3603)

- Less permeable than rubber tubing
- Autoclavable, durometer hardness: Shore A, 55
- More sizes available. Please call

| Order #     | ID (mm) | OD (mm) | ID (in) | OD (in) | Length (mm) | Length (ft) |
|-------------|---------|---------|---------|---------|-------------|-------------|
| STI 72-1015 | 1.6     | 3.2     | 1/18    | 1/8     | 15.2        | 50          |
| STI 72-1020 | 3.2     | 6.4     | 1/8     | 1/4     | 15.2        | 50          |

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Not for use on humans

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