

# SOMNI AMD-3

## ACCURATE MULTI-DELIVERY SYSTEM



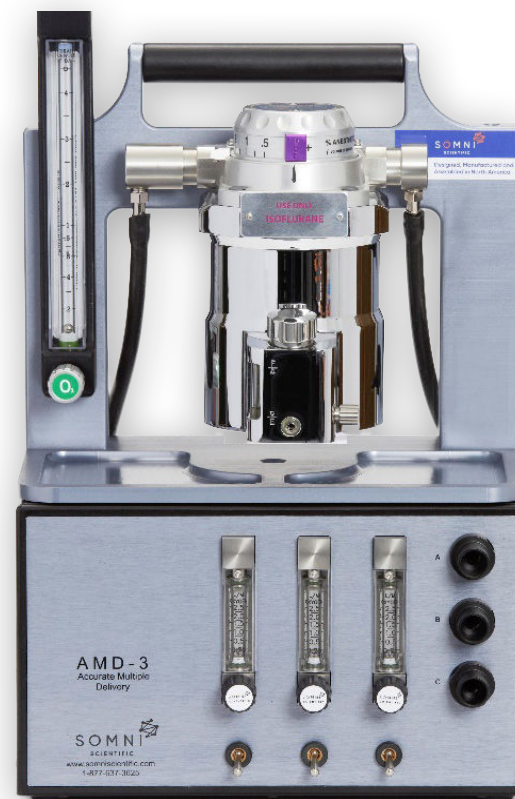
SOMNI PRODUCT MANUAL



3 Station Flowmeter Controlled Diverter System  
Model AMD-17004

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SOMNI TT2 Anesthesia System and  
SOMNI 3 Vaporizer\* shown with AMD-3

\*Not included

# INTENDED USE

The SOMNI AMD-3 Accurate Multi-Delivery System is a flowmeter controlled diverter system designed for Veterinary Use Only. The AMD-3 gives the user the ability to deliver accurate flow rates to three stations simultaneously. The SOMNI AMD-3 also includes a pressure relief valve to prevent pressure buildup in the vaporizer\*. The SOMNI AMD-3 can be used in conjunction with the SOMNI TT-2 or any other non-pressurized, non-rebreathing anesthesia system.

\*Vaporizer not included.

## Unpacking/ included items

### SOMNI AMD-3 System

1- Y connector with 6 inch silicone tubing and 10 inch silicone tubing attached for anesthesia system with female vaporizer inlet endcap

1 - 8 inch silicone tubing for anesthesia system with male vaporizer outlet endcap.







2 - color coded 6' Fresh gas delivery lines with common outlet

1 - color coded 6' Fresh gas delivery line with 15mm adapter



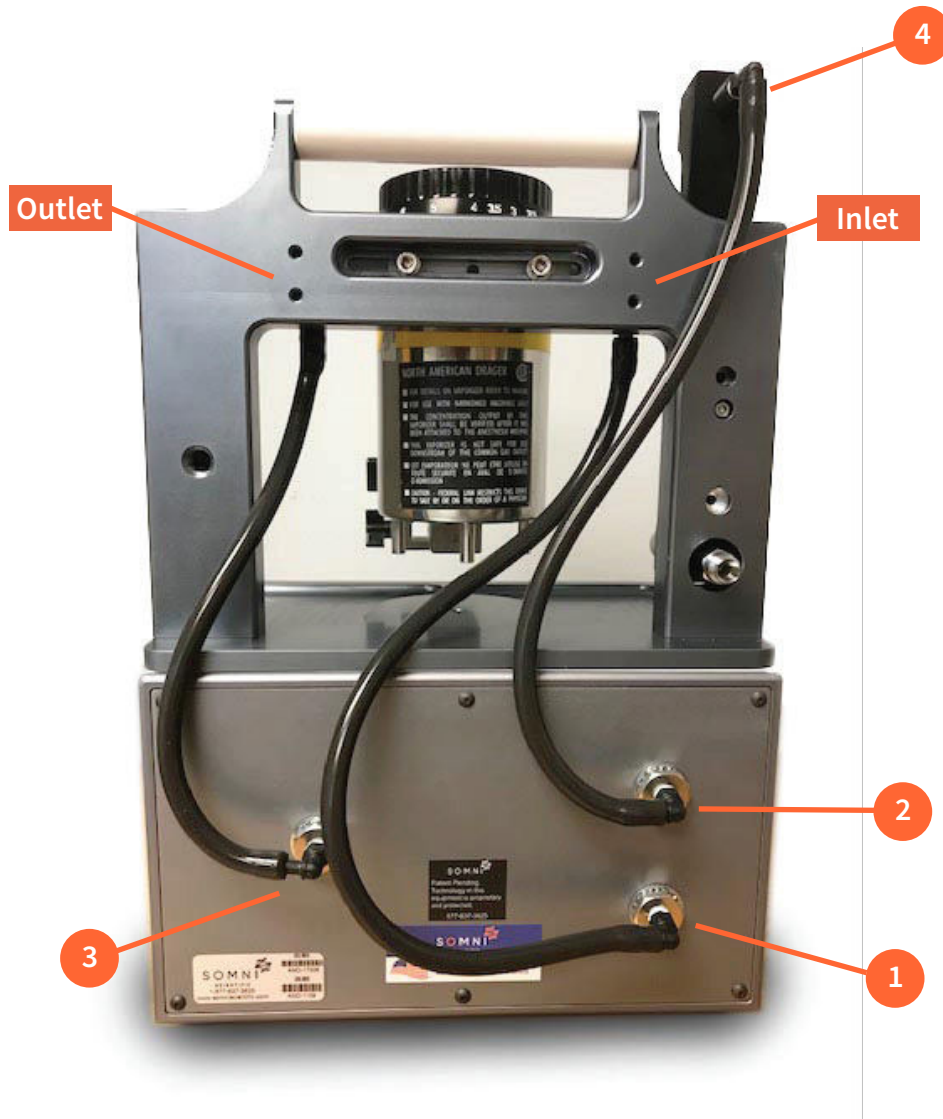
# INTRODUCTION

## WARNINGS, NOTES AND DEFINITIONS

-  Warning! Only use accessories appropriate for use with nonrebreathing anesthesia systems. Failure to use appropriate accessories can result in animal injury, poor anesthetic delivery and waste gas exposure.
-  Warning! Operator must read entire manual prior to operation and be trained in the use of inhalant anesthetic equipment. Failure to do so may harm the animal.
-  Warning! Do not connect unregulated carrier gas to the anesthesia system. Oxygen or another carrier gas should be supplied at 50 psi.
-  Warning! Always operate inhalant anesthetic equipment with waste gas scavenging systems. Failure to control waste anesthetic gas may cause harmful exposure to personnel.
-  Note! Only use non-rebreathing style circuits and accessories
-  Note! Anesthetic vaporizer, anesthesia system and carrier gas (oxygen) accessories are not included. Please follow those products installation guides.



# SET UP

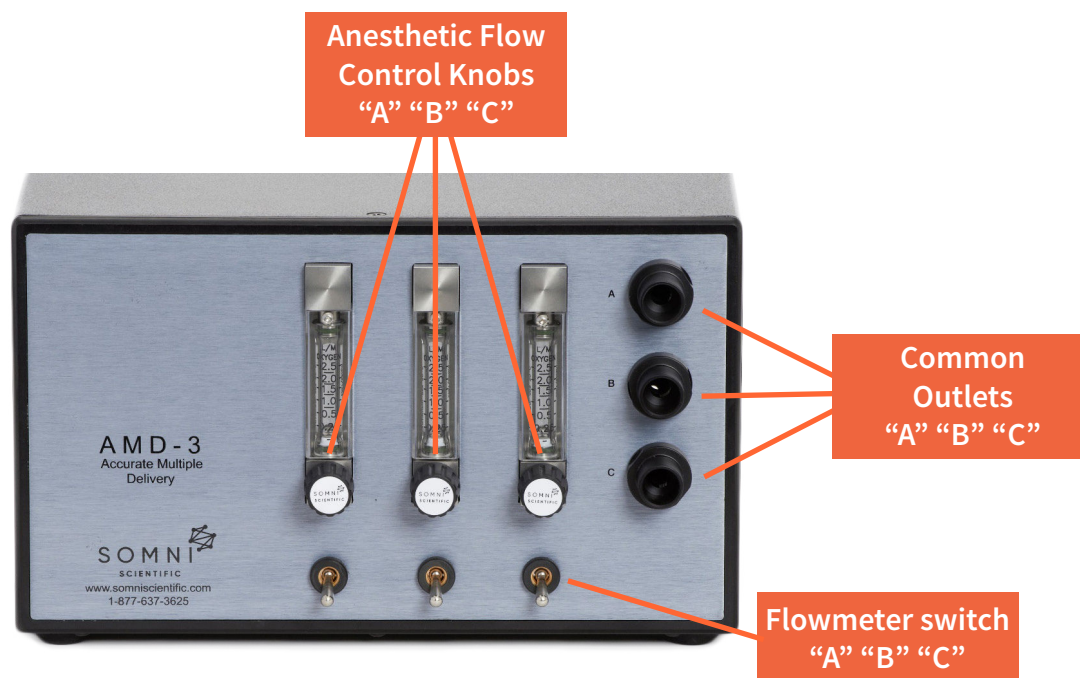


- 1 Remove your current tubing from the top port of the flowmeter if installing on existing system. If on a new system connect black tubing from rear AMD top right port (2) to top of flowmeter barb fitting(4).
- 2 Connect the silicone tubing from (1) port to vaporizer inlet endcap Attach the inlet endcap onto the vaporizer with a firm push and twist motion to secure it.
- 3 If existing system remove tubing from vaporizer outlet endcap and discard tubing. If new system connect silicone tubing from (3) port to outlet endcap of vaporizer. Attach the outlet endcap onto the vaporizer with a firm push and twist motion to secure it.
4. Connect oxygen (carrier gas) supply source to the DISS Male fitting on the back of the flowmeter.
5. Attach the color coded fresh gas delivery lines into the 3 common gas outlets on the front of the AMD-3.





# PRODUCT OPERATION



1. Place the SOMNI AMD-3 on a flat, stable surface and ensure the flowmeter control knobs and switches are in the **“OFF”** position.  
Connect the fresh gas delivery lines supplied to each of the common outlets labelled A, B, or C. If one of the lines is not needed, it is not necessary to disconnect it.
2. Connect optional breathing accessory or induction chamber utilizing the color coded fresh gas delivery lines.
3. Connect appropriate active or passive waste gas scavenging system.  
Ensure vaporizer has been filled and is ready for use.
4. Ensure the oxygen (carrier gas) supply is connected to the anesthesia machine, turn it on. Next turn the main anesthesia machine flowmeter on to the highest flowrate needed for each station/line. (Main flowmeter supply is divided into each station's flow)

## PRODUCT OPERATION CONT.

5. Toggle each Flowmeter switch up to allow flow to begin. Adjust each flowmeter to the level of flow needed for each gas delivery line and corresponding accessory. Confirm oxygen flow through each of the gas delivery lines.
6. If all Flowmeters will not be utilized, it is not necessary to turn the Flowmeter off, only Toggle the switch down to stop the flow.



NOTE: At least one flowmeter switch should be toggled up/on to allow flow during operation and to prevent activation of the pressure relief valve.

7. To begin, place animal(s) into induction chamber and provide oxygen or other carrier gas flow. Verify the chamber is closed and then turn on the vaporizer to the desired anesthetic percentage. Follow established guidelines regarding flowrates and percent anesthetic concentration. Suggested fresh gas flow to any accessory (except hooded style induction chamber) SHOULD NOT EXCEED 1 LPM. Recommended maximum fresh gas flow rate for induction chamber is 2 LPM.
8. At procedure completion, turn the anesthetic vaporizer off and allow the anesthetic gas to be removed by the scavenging system. Turn the anesthetic machine main flowmeter off and toggle each of the switches down.

*For more information [www.somniscientific.com](http://www.somniscientific.com) or call to speak with one of our Clinical Technicians at 877-637-3625*

# ROUTINE MAINTENANCE

## Daily Testing

- Turn the flowmeter knob fully open and observe the float ascends and descends freely and rests completely at the bottom when knob is turned off.
- Open and close each switch, checking for gas flow through delivery lines when open and verify loss of flow when closed.
- Inspect lines, connectors and accessories for wear prior to use.

## Cleaning

- Use a damp cloth to clean, do not spray cleaning agent directly onto AMD-3. Dilute Chlorhexidine or similar cleaning and disinfecting agent can be used. Do not use alcohol.

# TROUBLESHOOTING

- Flowmeter will not turn off – Needle valve may be worn
- Animals will not go to sleep/stay asleep – Inspect system for leak
  - tighten any loose connections (vaporizer endcaps, tubing connections)
  - verify flowmeter switch is on, flowmeter is turned on
  - confirm oxygen (carrier gas) supply is adequate and on
  - confirm anesthetic level in vaporizer is adequate
  - inspect breathing circuit/nosecone and/or induction chamber for leak or loose connection
  - check active waste gas system function/attenuation

*Call 877-637-3625 for assistance*





# WARRANTY AND SERVICE INFORMATION

## Limited Warranty

SOMNI Scientific (SOMNI) warrants to the original purchaser that the products, not including accessories, shall be free from defects in materials and workmanship under normal use, if maintained in accordance with SOMNI's guidelines and used according to its labeling, for the period specified in the manual.

Warranty period is 5 years from the invoiced date of purchase.

THIS LIMITED WARRANTY, IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES WHETHER EXPRESSED OR IMPLIED, BY OPERATION OF LAW OR OTHERWISE, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

This warranty is void if the product has been altered, misused, damaged by neglect or accident, tampered with, not properly maintained, not installed in strict compliance with applicable codes and ordinances, or repaired by persons not authorized by SOMNI. This warranty does not cover normal wear and tear and maintenance items and specifically excludes accessory items and any other equipment used with the product.

## Limitation of Remedies

SOMNI Scientific's only obligation under this limited warranty is the repair or replacement of the product. THIS IS THE EXCLUSIVE REMEDY. SOMNI shall not be liable for and hereby disclaims any direct, incidental, consequential or special damages or delays, including but not limited to loss of use, downtime, lost business, revenues and profits.

## Warranty Procedure

To obtain warranty service, contact SOMNI Scientific 877-637-3625 or [info@somniscientific.com](mailto:info@somniscientific.com).

SOMNI Scientific  
1900 Sleepy Hollow Road,  
South Park, PA 15129

## SUPPLIES AND ACCESSORIES

- TT-2 Table Top Anesthesia System PN: TT-17000
- SOMNI 3 Isoflurane Vaporizer, 250 ml PN: VS-6002

## BELOW ACCESSORIES FOR ACTIVE STYLE SYSTEM

- TT-2 Table Top Anesthesia System PN: TT-17000
- SOMNI 3 Isoflurane Vaporizer, 250 ml PN: VS-6002
- EPS-3 Exposure Prevention System, active PN: WG-15001
- Large Induction Chamber, Active Vacuum Style (9 Liter) PN: IA-3009
- InductFlow-LA, Large RED Active Induction Chamber , Hooded PN: IR-3010
- InductFlow-MA, Medium RED Active Induction Chamber , Hooded PN: IR-3011
- Equaflo Manifolds – multiple options available see [sommiscientific.com](http://sommiscientific.com)

## SPECIFICATIONS

Weight	14 lbs. / 6.5 kg
Dimensions	12 in W x 8 in. D x 8 in. H (30 cm W x 20 cm D x 20 cm H)
Flowmeters	0-2.5LPM