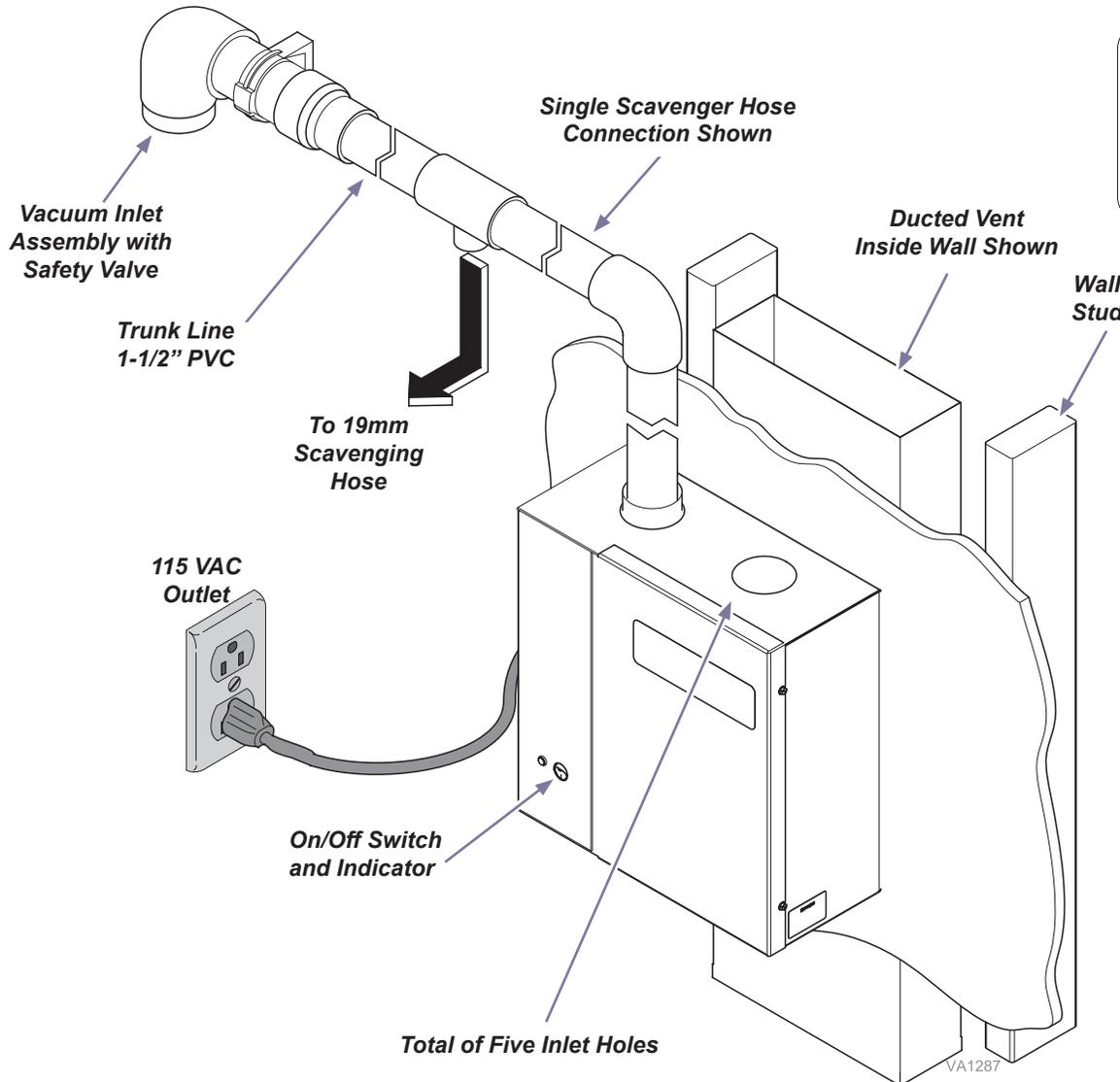


Central Scavenger Waste Anesthetic Gas Disposal System Installation

Applies to Models:

40162800



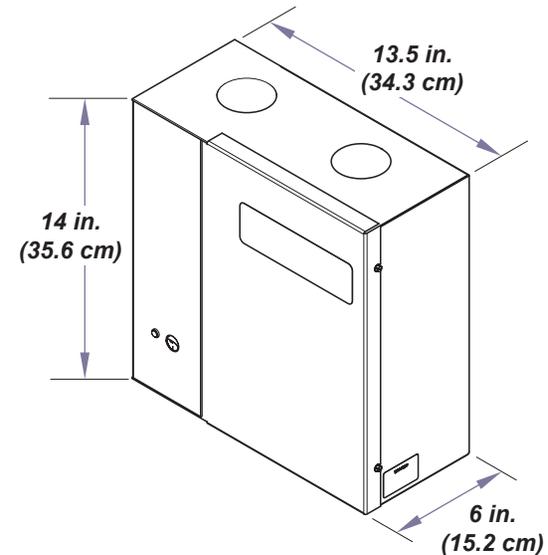
WARNING

Equipment is not suitable for use in the presence of a flammable anesthetic mixture. Make certain that the installation does not interfere with wiring, gas or water pipes inside the walls when mounting the scavenger unit. A qualified contractor may be required to perform these procedures.



Equipment Alert

Trunk line Inlet holes are shown with plastic caps. There are two more on back and one on bottom. All unused trunk line Inlet holes must be capped. Vacuum Inlet Assembly with Safety Valve must be installed facing downward.



Important Information

Intended Use

Operation of all Midmark Waste Anesthetic Gas Disposal equipment is restricted to use in veterinary procedures.

Disposal of Equipment

At the end of product life, the unit(s), accessories, and other consumable goods may become contaminated from normal use. Consult local codes and ordinances for proper disposal of equipment, and other consumable goods.

Transportation / Storage Conditions

Ambient Temperature Range:..... 32°F to 104°F (0°C to 40°C)
Relative Humidity..... 10% to 90% (non condensing)
Atmospheric Pressure 500hPa to 1060hPa (0.49atm to 1.05atm)

Symbols

These symbols may appear on your equipment and/or in the manuals.



Proper Shipping Orientation



Maximum stacking height
(Do not stack)



Fragile



Keep Dry



Consult User Guide



Do Not Tumble



Handle With Care

Safety Symbols



WARNING

Indicates a potentially hazardous situation which could result in serious injury if not avoided.



Caution

Indicates a potentially hazardous situation which may result in minor or moderate injury if not avoided. It may also be used to alert against unsafe practices



Equipment Alert

Indicates a potentially hazardous situation which could result in equipment damage if not avoided.

Note

Amplifies a procedure, practice, or condition.

Central Scavenger Site Requirements

Plumbing	Trunk Line	
	Type	PVC Sch 40 Pipe
	Size	1-1/2" (Installer Supplied)
	Termination	Vacuum Inlet Assembly with Room Air Safety Valve Facing Downwards (included)
	Scavenger Connection	Secure PVC Pipe to Inlet Hole with O-ring and Lock Nut (included)
	Maximum Length	100' Pipe, 8 Elbows
	Max Trunk Lines	3 Trunk Lines for Each Central Scavenger Unit with up to 4 Scavenging Hose Connections <i>(Note: Only 3 Scavenging Hose Connections in Canada)</i> <i>(40' Scavenging Hose included)</i>
	Mounting Options	PVC can be mounted to Wall or Ceiling <i>(can be concealed inside wall or above ceiling)</i>
Vent	Type	Direct or Ducted
	Size	Maximum length for 3-1/4 x 10in. ducting is 40 feet with no more than one 90° bend. Maximum length for 5 in. diameter round ducting is 30 feet with no more than one 90° bend.
	Template	Paper Template Provided
Electrical	Boxes	
	Supply	115 VAC Outlet
	Power Cord Length	6'
Environmental	Temperature	
	Equipment Room Ambient Temperature	32° to 104° F 0° to 40° C

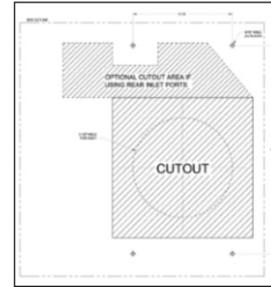
Installation Kit Components

Installation Preparation...

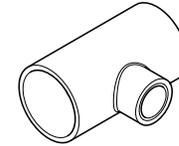
Choose a location to install the Scavenger Unit within 6 feet of a 115 VAC outlet.

Note: Use the Cutout Template provided in the Installation Kit to mark the appropriate cutouts for the required installation configuration (Direct Wall or Ducted Vent) and optional rear Trunk Inlet Line holes.

Cutout Template (1)



1-1/2" x 1 1/2" x 3/4" NPT RDC Tee (4)



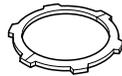
**Auto-close
19 mm
Hose Fitting (4)**



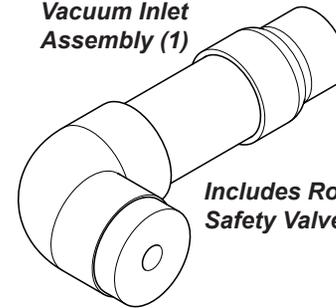
**Male Adapter
1-1/2 in. PVC (1)**



**Lock Nut
Conduit
1-1/2 in. (1)**

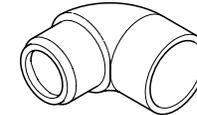


**Vacuum Inlet
Assembly (1)**



*Includes Room Air
Safety Valve*

**Street Elbow
PVC 1-1/2 in. (4)**



**19 mm Male
Fitting x 3/4" NPT
for RDC Tees (4)**



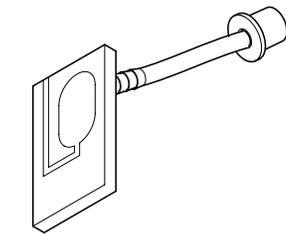
O-Ring (1)



**Flanged Lock
Nut (2)**



**40 Ft. of
19mm Magenta
Scavenging
Hose**

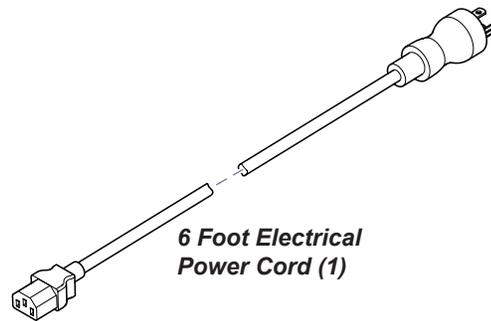


**Manometer with
Tubing and 1/4"
Adapter (1)**

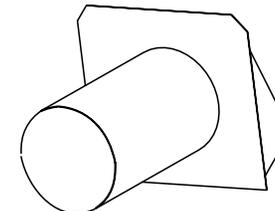
19mm Adapter (4)



**6 Foot Electrical
Power Cord (1)**



**Outside Vent
with screen (1)**

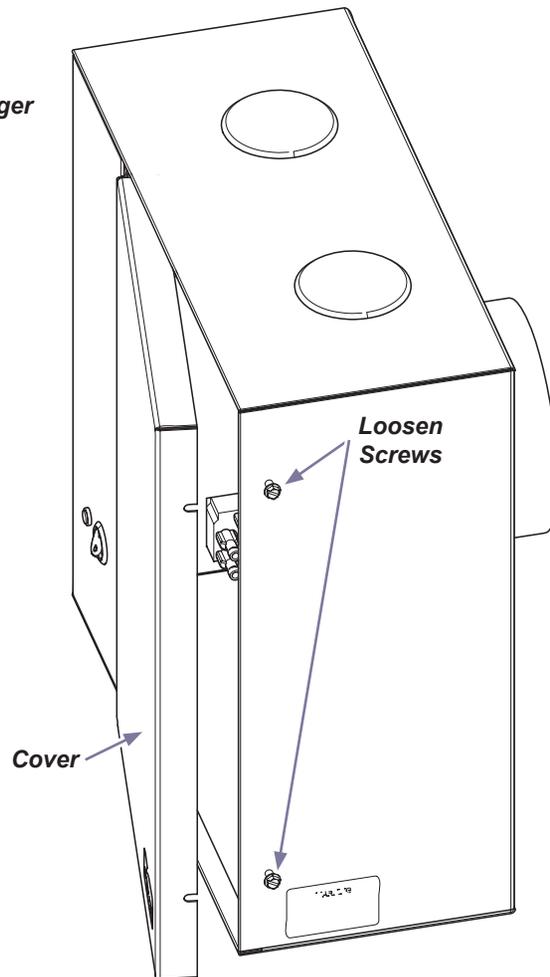


VA1288

19mm Female Fitting x 3/4" NPT (4)

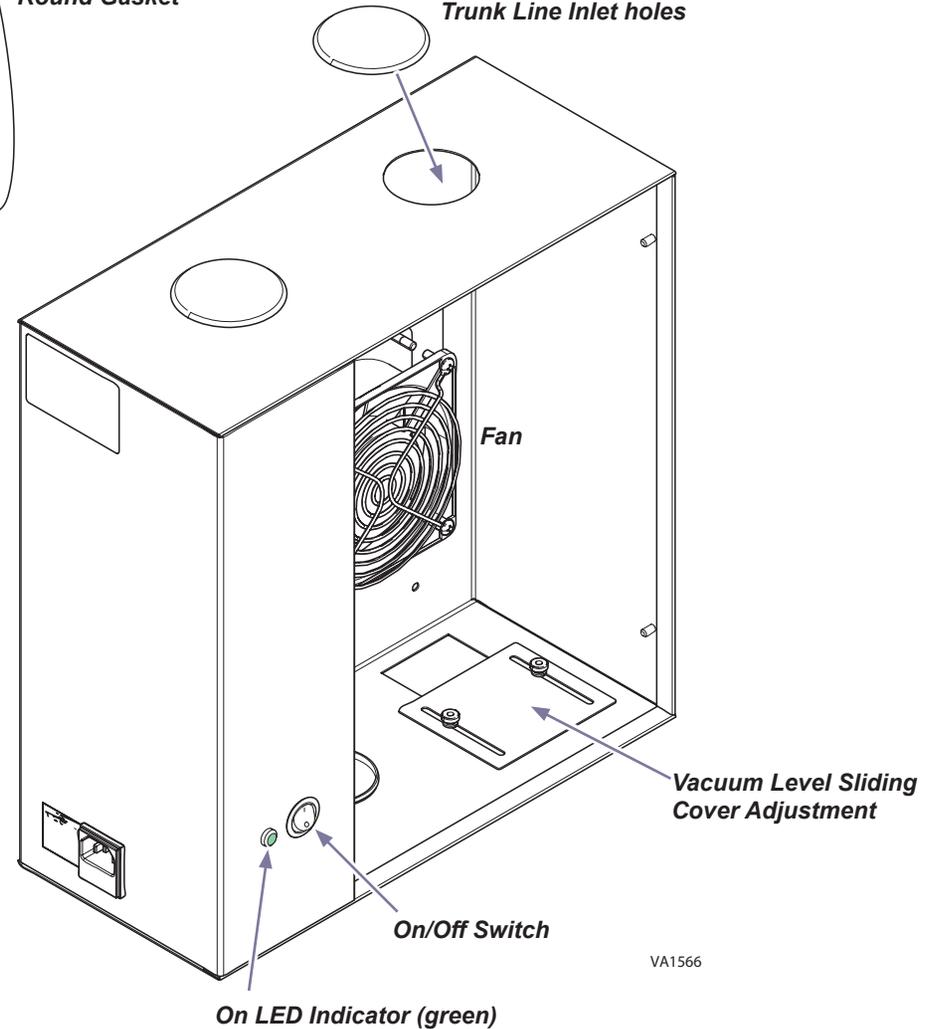
Central Scavenger Unit

Central Scavenger Enclosure



Round Gasket

Plastic caps on five Trunk Line Inlet holes



Remove Cover...

- Loosen hex head screws on the side of the enclosure.
- Pull right side of cover out from the screws via the slotted holes.
- Pull the loose side of the cover free of the enclosure by pulling it from under the fixed left panel.

VA1566

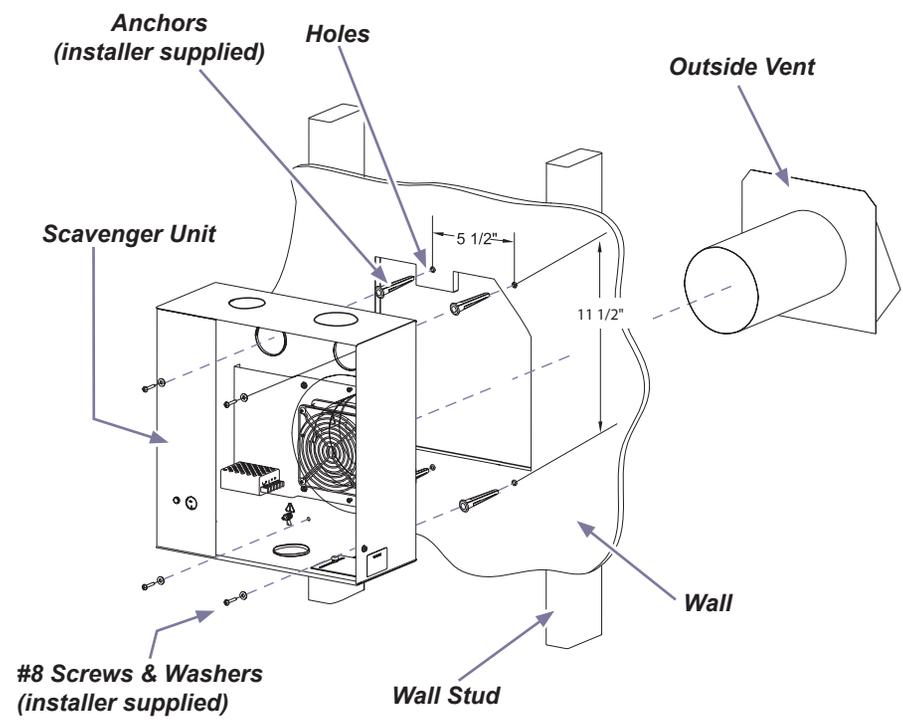
Vent Installation

Install direct wall or ducted vent.

Note: Use the paper template provided to properly locate the anchor and vent holes on the wall surface before drilling and mounting the unit to the wall.

Direct Wall Vent Installation

Mount the scavenger unit to the wall.



Mount the vent to an outside wall and weatherproof as necessary.
Trim vent duct length to keep vent flush with outside wall.

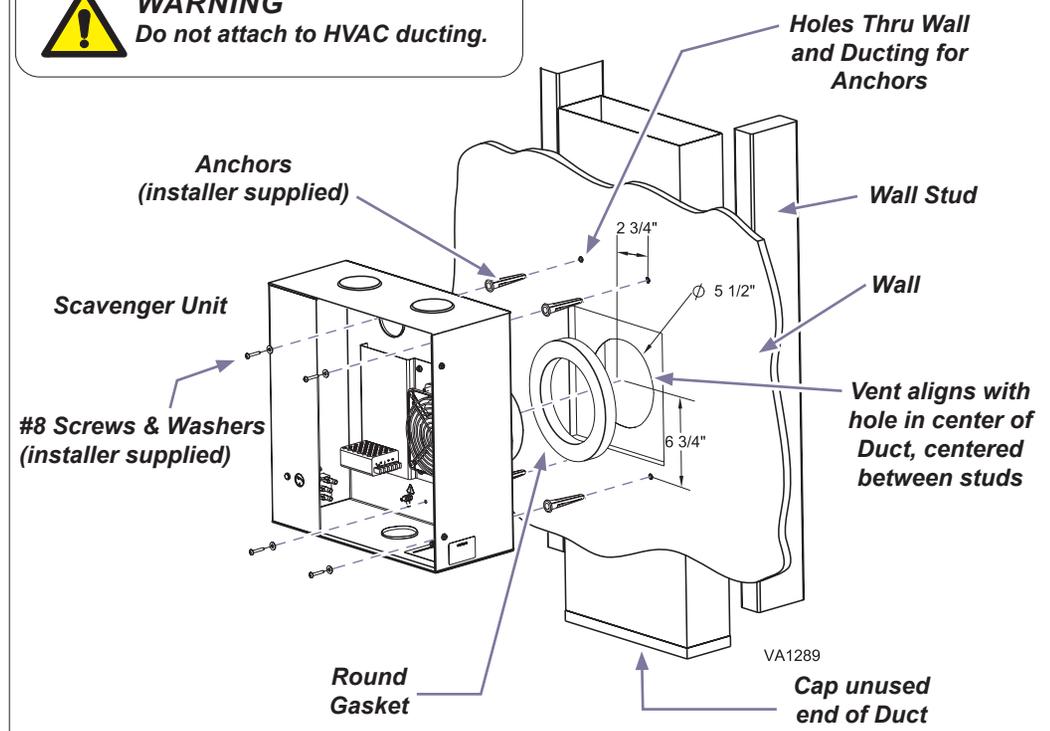
Ducted Vent Installation

Use 3-1/4 x 10 in. rectangular duct installed thru an interior wall to vent scavenger unit to the roof or an outside wall.

- Secure scavenger unit to wall anchors.
- Press scavenger unit thru wall and into duct.
- Use four #8 screws and flat washers to draw together.

Note: Round, 5 in. diameter ducting could also be used to vent the scavenging unit thru the wall.

WARNING
Do not attach to HVAC ducting.



Mount the vent to an outside wall and weatherproof as necessary.
Trim vent duct length to keep vent flush with an outside wall.
Use a vent designed for roof applications if the vent terminates on a roof.

Install trunk line in ceiling or wall (wall shown on next page).



WARNING

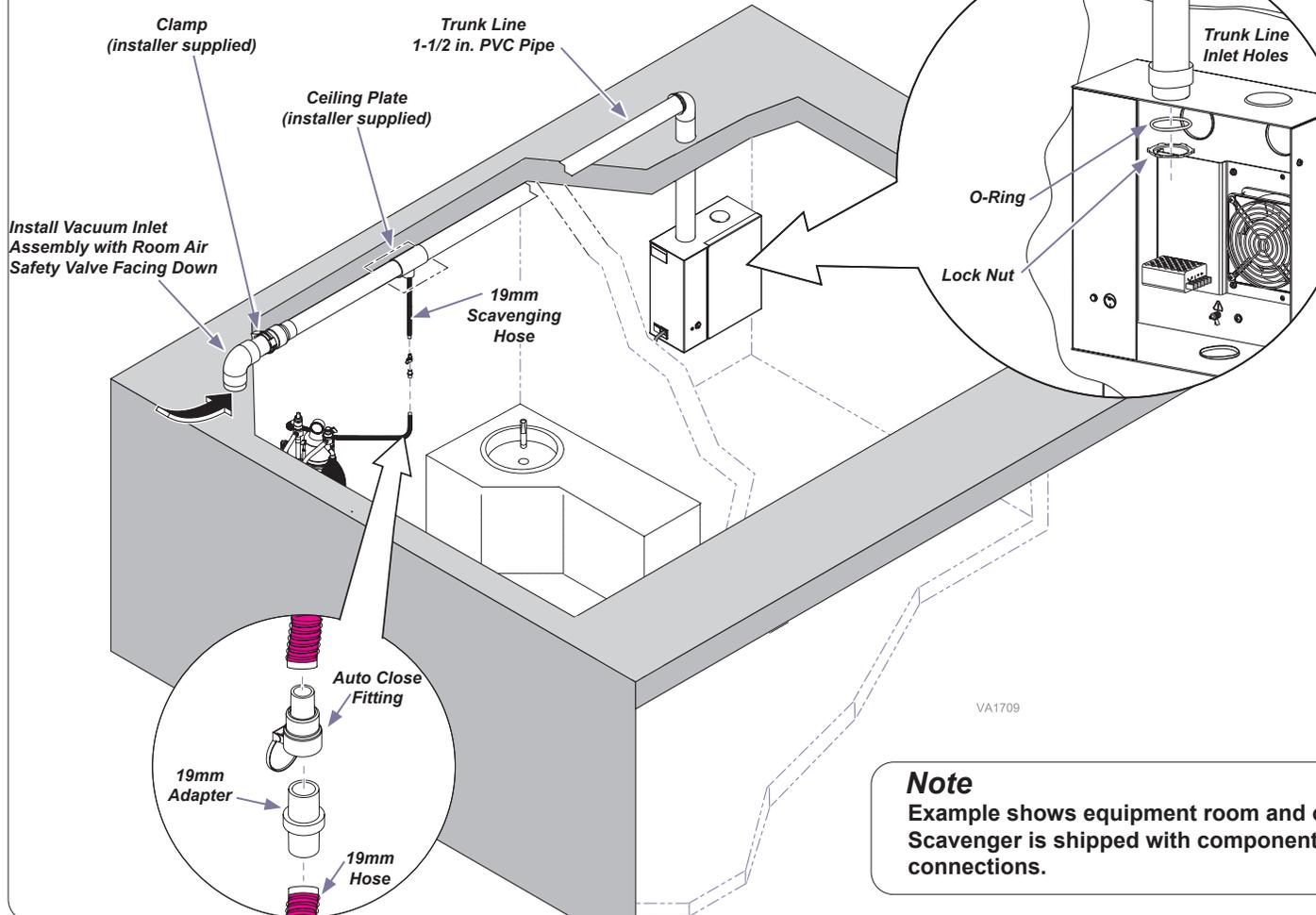
Always unplug or disconnect the appliance from the power supply source before servicing. To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device. To reduce the risk of fire, electric shock or injury to persons, do not use replacement parts that have not been recommended by the manufacturer (e.g. parts made at home using a 3D printer).



Caution

For general ventilating use only. Do not use to exhaust hazardous or explosive materials and vapors.

Trunk Line In Room (Ceiling Drop Shown)



WARNING

TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:
A) Use this unit only in the manner intended by the manufacturer. If you have questions, contact the manufacturer.

B) Before servicing or cleaning unit, switch power off at service panel and lock the service disconnecting means to prevent power from being switched on accidentally. When the service disconnecting means cannot be locked, securely fasten a prominent warning device, such as a tag, to the service panel.

C) Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction. Follow the heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and the local code authorities.

D) Sufficient air is needed for proper combustion and exhausting of gases through the flue (chimney) of fuel burning equipment to prevent back drafting.

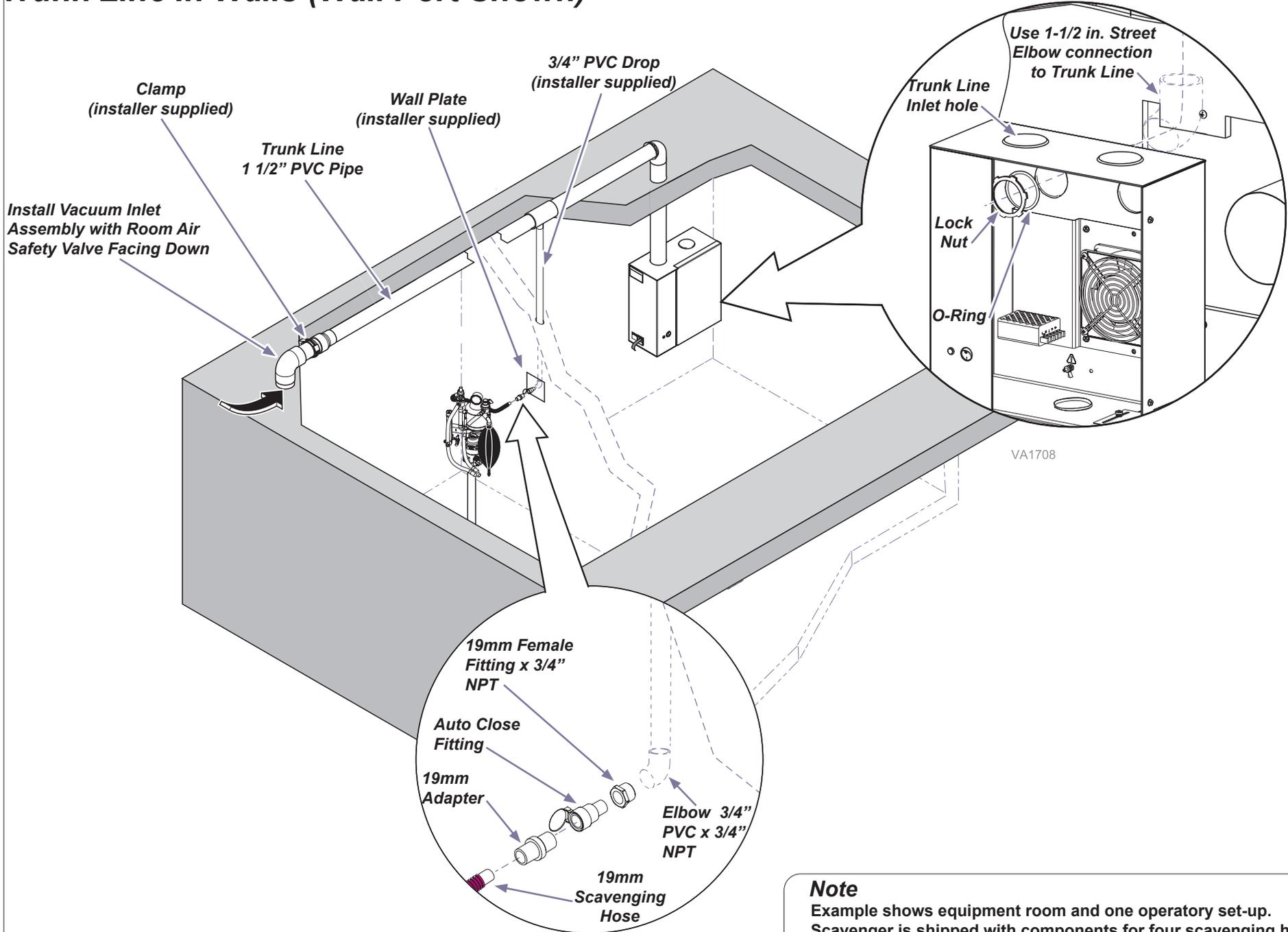
E) When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.

F) Ducted fans used to exhaust contaminants must always be vented to the outdoors.

Note

Example shows equipment room and one operatory set-up. Scavenger is shipped with components for four scavenging hose connections.

Trunk Line In Walls (Wall Port Shown)



Note
 Example shows equipment room and one operatory set-up. Scavenger is shipped with components for four scavenging hose connections.

Testing the Vacuum Level

The maximum allowable negative pressure in the central scavenger system, immediately downstream of the gas collecting assembly during normal administration of anesthesia, shall be tested at an excess gas flow rate of zero and shall be 50 Pa (0.5 cm-H₂O) or less.

Follow the instructions printed on the front of the manometer to test the vacuum level at every scavenging hose throughout the entire central scavenger system. Repeat test with all scavenging hose connections open.





Pass = Between Lines = Proper Vacuum
(1 Atm To -0.5cm HO)

Directions for use:

1. Mix 1 drop of liquid dish soap with one cup of water.
2. Pour mixture to Fill Line in manometer.
3. Attach scavenger to scavenger hose.
4. Activate scavenger unit.

Water level should remain in the PASS zone between the lines during the test.

62991000 Rev C

VA1825i

