Safety first!

Pro-Nox Scavanger Options

This webinar is being recorded for future training purposes

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PRO-NOX™ N_2O

Agenda

- Why Nitrous?
- Pro-Nox highlights
- NIOSH / OSHA requirements
- Nitrous Oxyde Properties
- Side effects / Physiological effects
- Methods to minimize environmental exposure
- Who needs a scavenger system?
- Active Scavenger
- Passive Scavanger

Why Nitrous?

- Quick Onset - enables a more natural alternative
  - Perfect first defense (non-invasive) tool in your tool box for pain & anxiety relief
- Patient Administered – allows patients a sense of control
- Safe for Patients– many studies done worldwide
- Proven Effective – proven over decades of use worldwide
- Quick Recovery – allows patient to actively participate in their procedure while being relaxed
- Doesn’t change/add to your patient monitoring levels

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Pro-Nox System Highlights

- Super Safe, Easy to Use
- Audible & Visual Alarms
- Superior Infection Control
- Portable, lightweight, can move from room to room
- Customizable – Wall Mount or Roll Stand, 3 sizes of masks, ready-made kits
- Internal On-Demand Valve
- 2 scavenger options – Active with wall suction or Passive with a pump

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NIOSH / OSHA Requirements

- The U.S. has the most stringent limits on acceptable exposure in the world – 25 ppm over an 8-hr shift. European standards are 100 ppm.
- Long-term exposure to levels above 500 ppm have been associated with decreased fertility.
- Use of a properly maintained scavenging system can reduce exposure more than 70%.

Controlling Exposures to Nitrous Oxide During Anesthetic Administration; DHHS (NIOSH) Publication Number 94-100 - NIOSH (National Institute for Occupational Safety & Health)
OSHA - Occupational Safety and Health Administration

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Nitrous Oxide Gas Properties

- Clear, colorless vapor with a slightly sweet odor and taste
- Under pressure, N2O can be stored as a liquid
- An e-cylinder can hold 1590 liters (O2 = 625 liters)
- Like oxygen, N2O supports combustion and caution must be exercised near an ignition source
- N2O Vapor is 1.5 times as heavy as air at 77° F

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Nitrous Oxide – Physiological Effects Side Effects

- Effects – response varies between patients
  - Decreased sensation of pain
  - A disconnection from the pain they are feeling
  - Less scared, anxious, or stressed
- Side Effects (from Likis FE et al; 2012 – Vanderbilt review of the literature – mostly labor & delivery)
  - Nausea (0-28%)
  - Vomiting (0-14%) – No aspiration
  - Dizziness, Light-headedness (3-23%)
  - Drowsiness (0-67%)
  - Unconsciousness (<1%)
  - Dry Mouth, Pins and needles, numbness

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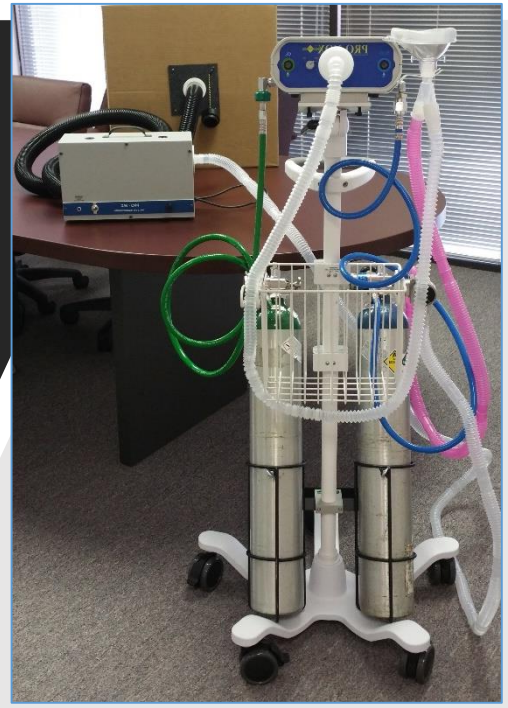
Methods to minimize environmental exposure

- Scavenger
- Room ventilation
- Patient Coaching
- Demand valve for intermittent applications

Methods to minimize environmental exposure

- Safety Features:
  - Internal Demand Valve
  - Protection of healthcare workers
    - 2 scavenger options available
    - Nitrous Badges to test exposure



Passive Scavenger & Pump– No-Wall Suction

Active Scavenger – Wall Suction

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Who needs a Scavenger? ASK QUESTIONS!

- Duration of procedures?
- Number of procedures per day?
- Size of treatment room?

- Offer measurement when in doubt
  - Badge to be mounted on stand for about 8h (1 working day)
  - Send to a laboratory
  - Get the result after 3 days

Active Scavenger

- Wall Suction
  - Part # GD 1925
  - Mount at the Rolling Stand
  - Relieve Valves / Ports (over- and underpressure)
  - Gas Reservoire


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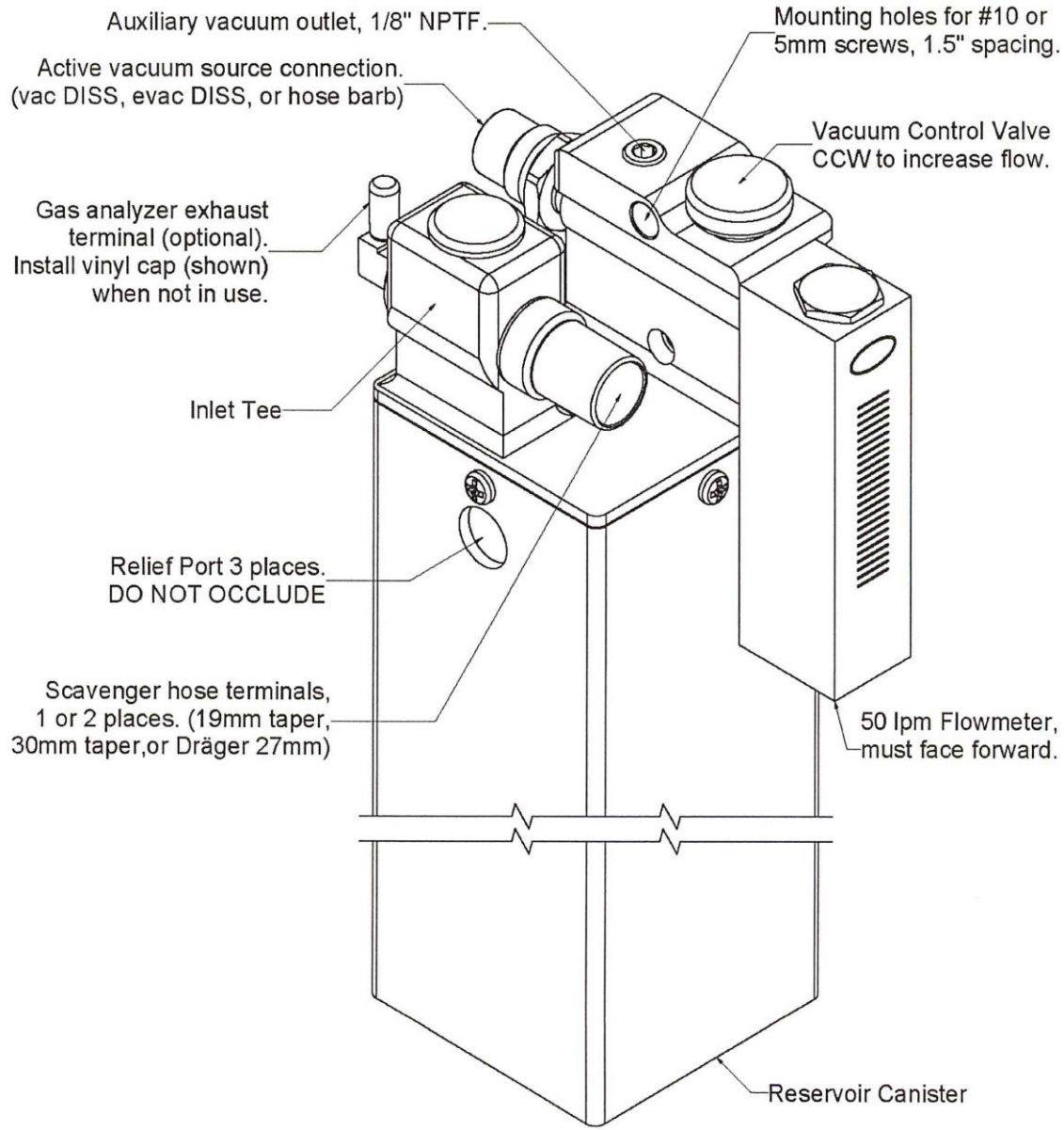

Auxiliary vacuum outlet, 1/8" NPTF.
Active vacuum source connection.
(vac DISS, evac DISS, or hose barb)
Gas analyzer exhaust
terminal (optional).
Install vinyl cap (shown)
when not in use.
Inlet Tee
Relief Port 3 places.
DO NOT OCCLUDE
Scavenger hose terminals,
1 or 2 places. (19mm taper,
30mm taper,or Dräger 27mm)
Mounting holes for #10 or
5mm screws, 1.5" spacing.
Vacuum Control Valve
CCW to increase flow.
50 lpm Flowmeter,
must face forward.
Reservoir Canister

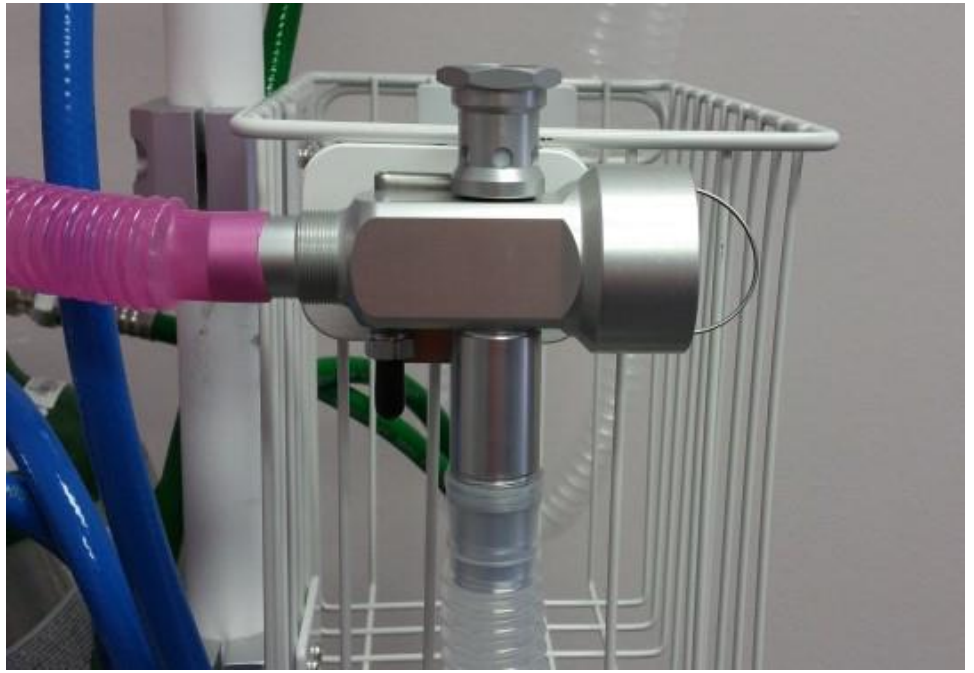
Passive Scavenger

- When no Wall Suction available
  - PRO-VAK pump
  - Part # GD-14610A
  - PRO-VAK-WK Wall Install kit

  or

  - PRO-VAK-USK Under the Sink Install

PRO-VAK pump
(Ventilator)

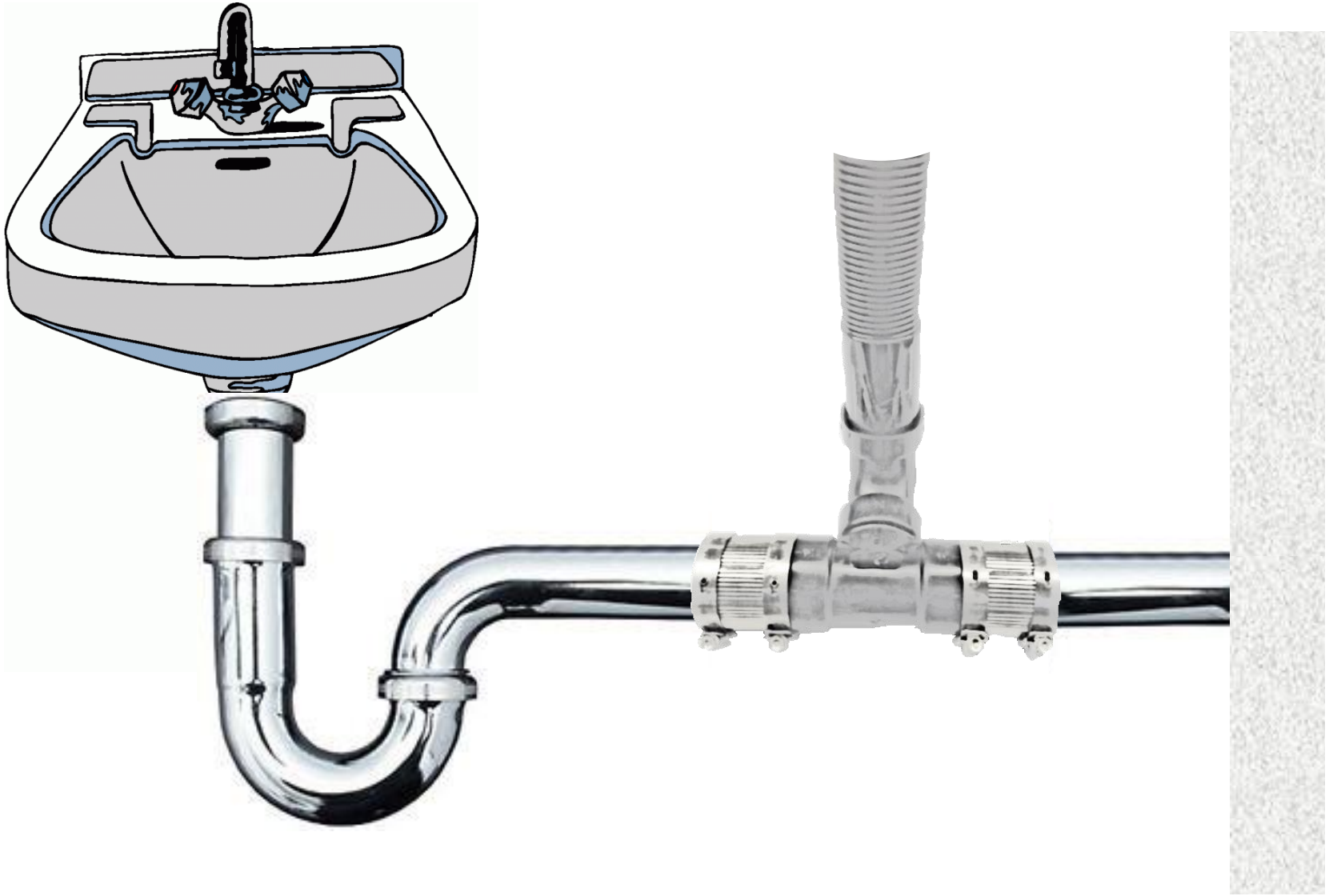


GD-14610A
(Safety valve)

PRO-VAK-WK Wall Install kit

PRO-VAK-USK Under the Sink Install

PRO-VAK-USK Under the Sink Install



Pearls of Wisdom

- Win-Win for everyone
- Low Cost to implement
- Low Cost to run program
- Low Cost to maintain
- Patient Satisfier
- Patient Centered Pain Relief Option
- Safety
- Effective
- Positive patient experience

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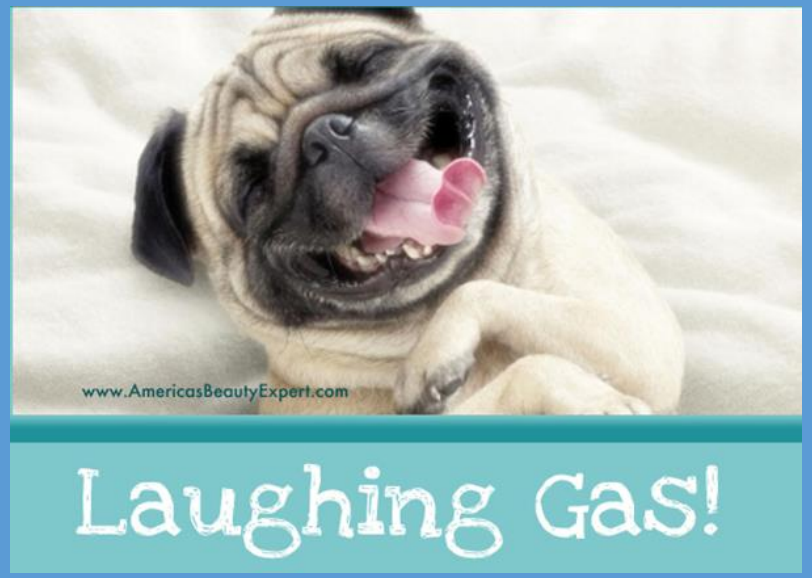
The BEST Part About The TREATMENT Is The



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