SCAVENGE SYSTEMS

Gas Scavenging Systems collect waste gases from the exhaust port of the anaesthetic circuit or ventilator and transfers them to a receiving system. From there the system disposes of the waste gases outside of the working environment.

The use of anaesthetic gases and volatile agents within the closed environment may lead to the chronic exposure of staff with potential adverse consequences on their health. In addition to this, certain agents are potentially flammable and should not be allowed to accumulate in a closed area.

This article describes the components and methods used in anaesthetic gas scavenging systems.

TYPES: Scavenging may be ACTIVE (suction applied) or PASSIVE (waste gases proceed passively down a corrugated tube away from the clinical environment - limitations apply with this method.)

ACTIVE SYSTEM

As stated, an active system must be attached to some form of suction or evacuation unit which would be in the facility wall or pipeline system.

ACTIVE SCAVENGE BOX AND WALL BRACKET
- Wall mounted
- 1 - 2 anaesthetic machines
ITEM NO. MQP2662ACT

*SEE FIGURE 2

SCAVENGE BOX
- Used in conjunction with a central vacuum system piped to a wall outlet
ITEM NO. MQP2662BLD

*SEE FIGURE 4 & 5

MULTIPLE ACTIVE SCAVENGE SYSTEM
- 3 - 6 outlet scavenge
- Ceiling mounted unit activated by remote internal wall switch
ITEM NO. MQP2772ACT

*SEE FIGURE 3

SMALL VACUUM PLANT
- Rotary Vain Suction Pump
- 140lpm
- Manual on/off
ITEM NO. AV-vascavsys
CENTRAL VACUUM PLANT
• Suction or scavenge
• High quality Becker pump
• Mounted on a 100L reservoir
• Automatic on/off function
ITEM NO. AVVACSYS

SCAVENGE OUTLET 22M, WALL PASSIVE
(NO WALL PLATE)
ITEM NO. EESC22MP
(WALL PLATE INCLUDED)
ITEM NO. EESC22MW

PASSIVE SYSTEM
A passive system is a low pressure system that relies on the passive flow of gases out of the anaesthetic machine and is connected to some sort of egress out of the room. As this relies on a passive flow limitations apply.

PASSIVE SCCAVENGE OUTLET
• Waste gas exiting out to atmosphere
ITEM NO. EESC22M

*SEE FIGURE 1

SCAVENGE ADAPTOR
• Connects 30mm absorber outlet to 22mm tubing
ITEM NO. UASCAVADAP

SCAVENGE WALL PLATE
ITEM NO. HZD5001V
ITEM NO. SHA553045

DOUBLE OUTLET PLATE WITH VENTURIE SUCTION
• Oxygen, scavenge

TRIPLE OUTLET PLATE WITH CENTRAL SUCTION
• Oxygen, air, suction

CORRUGATED SCAVENGE TUBING
• 22mm ID tubing to take away anaesthetic gases
ITEM NO. DAW512004

SCAVENGER CANNISTER
• Connects to your absorber to remove anaesthetic agent from exhaled gases.
ITEM NO. UASCAVCAN

SCAVENGE WALL PLATE
ITEM NO. HZD5001V
ITEM NO. SHA553045
PASSIVE SCAVENGE SYSTEM

ACTIVE SCAVENGE FAN OPERATED UNIT
(2 OUTLET)

FIGURE 1

WALL CAVITY

FIGURE 2

CEILING CAVITY

OUTSIDE OF CLINIC

ACTIVE SCAVENGE MULTI-OUTLET FAN OPERATED
(UP TO 6 OUTLET)

FIGURE 3

OUTSIDE OF CLINIC

CEILING CAVITY

ON/OFF SWITCH

SCAVENGE TUBING

OUTSIDE OF CLINIC

WALL CAVITY