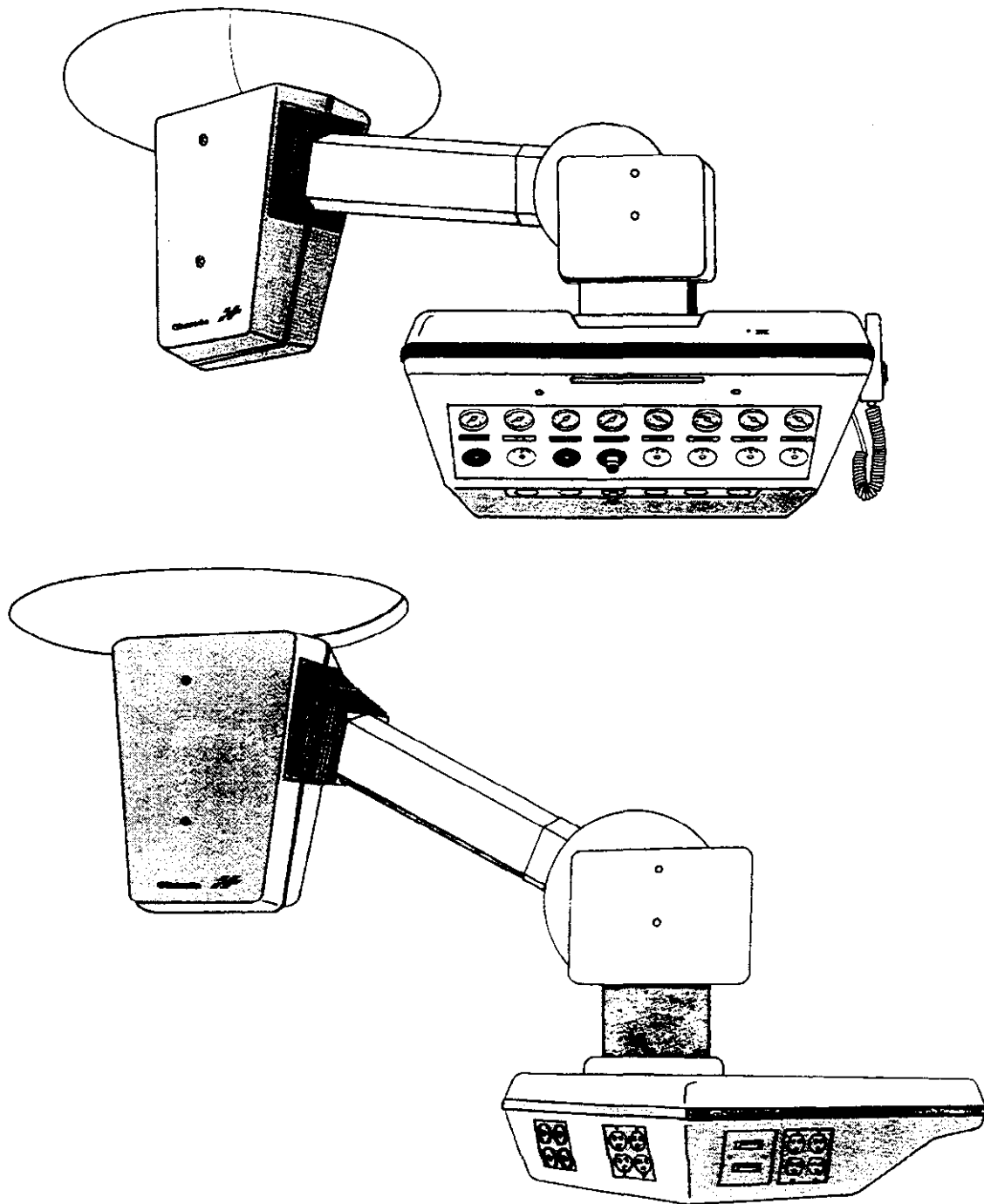


Multi-Service Pendant

GENERAL SPECIFICATIONS



MULTI-SERVICE PENDANT

1/Description

The MEDÆS Multi-Service Pendant is designed to provide convenient, adjustable positioning of medical gas, electrical, and specialty services. The arm suspends a self leveling, rotatable head with a shelf which may support monitors, infusion pumps, computer terminals, and other medical devices. The pendant accommodates ceiling heights between 8'6" and 11'.

The head can contain up to 14 gas outlets including passive evacuation, in any combination. Line pressure monitoring gauges are supplied for first eight services, excluding passive evacuation. The side and back panels of the head contain six option windows which allow the selection of a mix of option kits, including straight blade electrical receptacles, twist lock electrical receptacles, patient ground receptacles, 5 pin monitor receptacles, gas mass spectrometer inlet terminals, RS232 computer I/O, and telephone service connection.

Note: A maximum of three option windows can contain straight blade or twist lock electrical receptacle.

2/Features

- Medical gas outlets are gas specific, color coded and labeled for quick identification. Up to 14 may be supplied including passive evacuation.
- Large range of options to suit every O.R. requirement.
- Reduces clutter and improves overall efficiency of the surgical suite by allowing easy access to medical gases, electrical outlets, and a wide range of specialty medical devices.
- Auto-stop sensors help prevent the pendant from damaging objects in its path when being lowered.
- The arm can be rotated 350 degrees and the head 330 degrees for precise positioning.
- Rotatable head has a large shelf to support specialty devices.
- Diamond III (quick-connect) and DISS (threaded) gas outlets available.
- Line pressure gauges allow constant monitoring of gas line pressures and vacuum levels.
- Accommodates a wide variety of finished ceiling heights which eases installation.
- Arm and head are enclosed in a high impact, flame retardant plastic shroud. This covering is smooth finished for safety, mar resistant, and easily cleaned with most available hospital cleaning solutions.
- U.L. Listed (unless fitted with gas mass spectrometer or telephone connection) and CSA Certified.

3/Standard and Codes

When properly installed, the pendant meets all applicable NEC and NFPA standards.

4/Operation

The pendant is moved up and down by an induction motor driven linear motion actuator, operated with a hand held control switch (optional wall switch also available). The pendant does not require connection to an external, pressurized gas system for movement. It moves vertically through all or part of a 20" (50 cm) range with infinitely adjustable limits. As a safety feature, the pendant has auto stop sensors installed in the head which stop the downward movement of the arm, and trigger an LED indicator when an obstruction blocks its downward motion.

All horizontal movement is accomplished manually to allow precise positioning and optimal control. The arm has a horizontal swing of 350 degrees, a 37" reach pivot to pivot, and a 330 degree rotatable head. All horizontal motion is controllable, with easily adjustable stops at 15" increments.

The roughing-in assembly is a single piece casting with integral gas and electrical separations. All piping and electrical connections are made to the roughing-in assembly.

5/Warranty

Refer to the Multi-Service Pendant Operations and Maintenance Manual for the current MEDÆS Limited Warranty Policy.

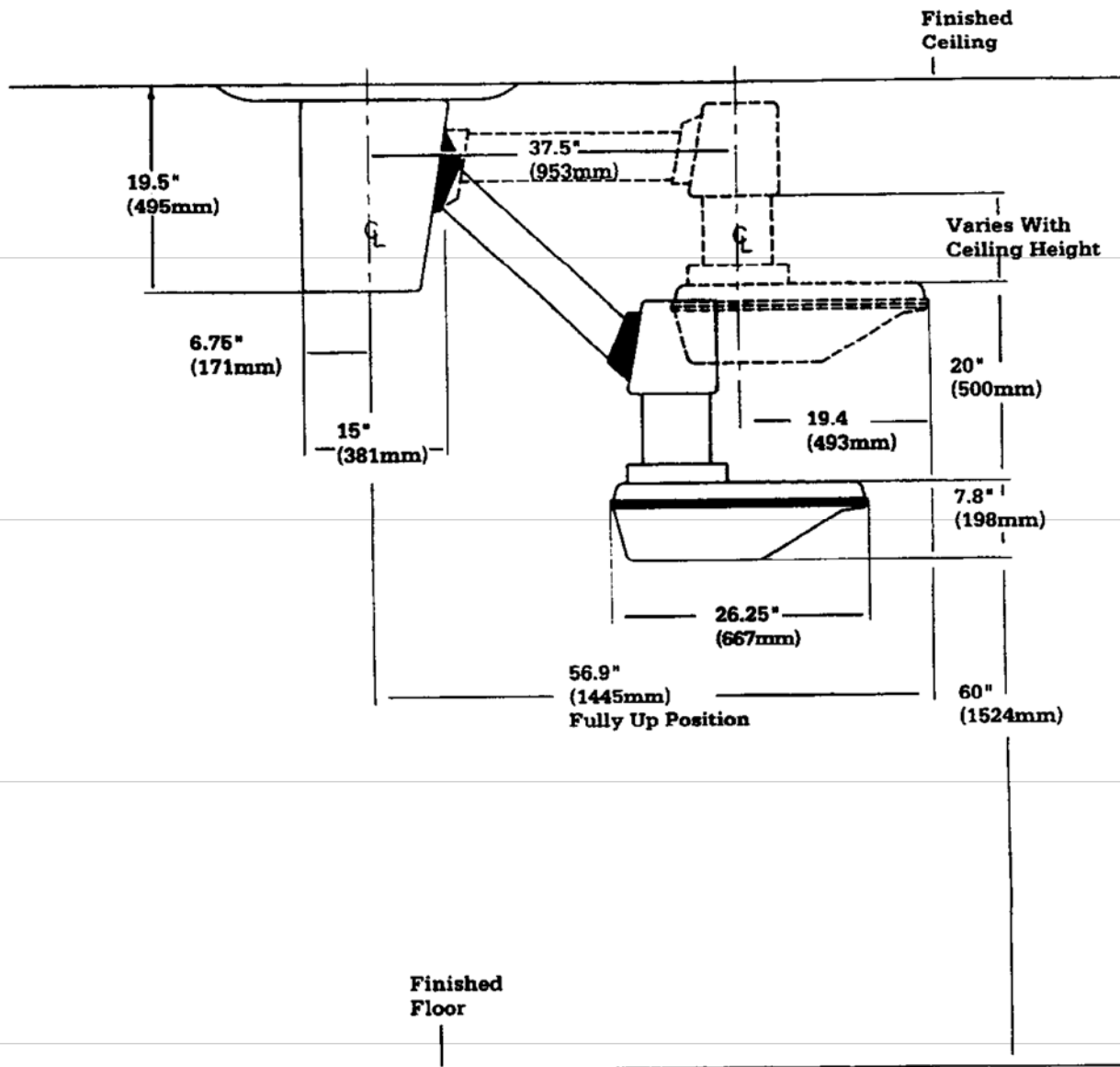
6/Cross Connection Prevention

After installation, MEDÆS offers an optional pipeline system check to certify there are no cross connections.

A MEDÆS system certification, in accordance with National Fire Protection Association (NFPA) 99, helps assure pipeline safety and patient protection.

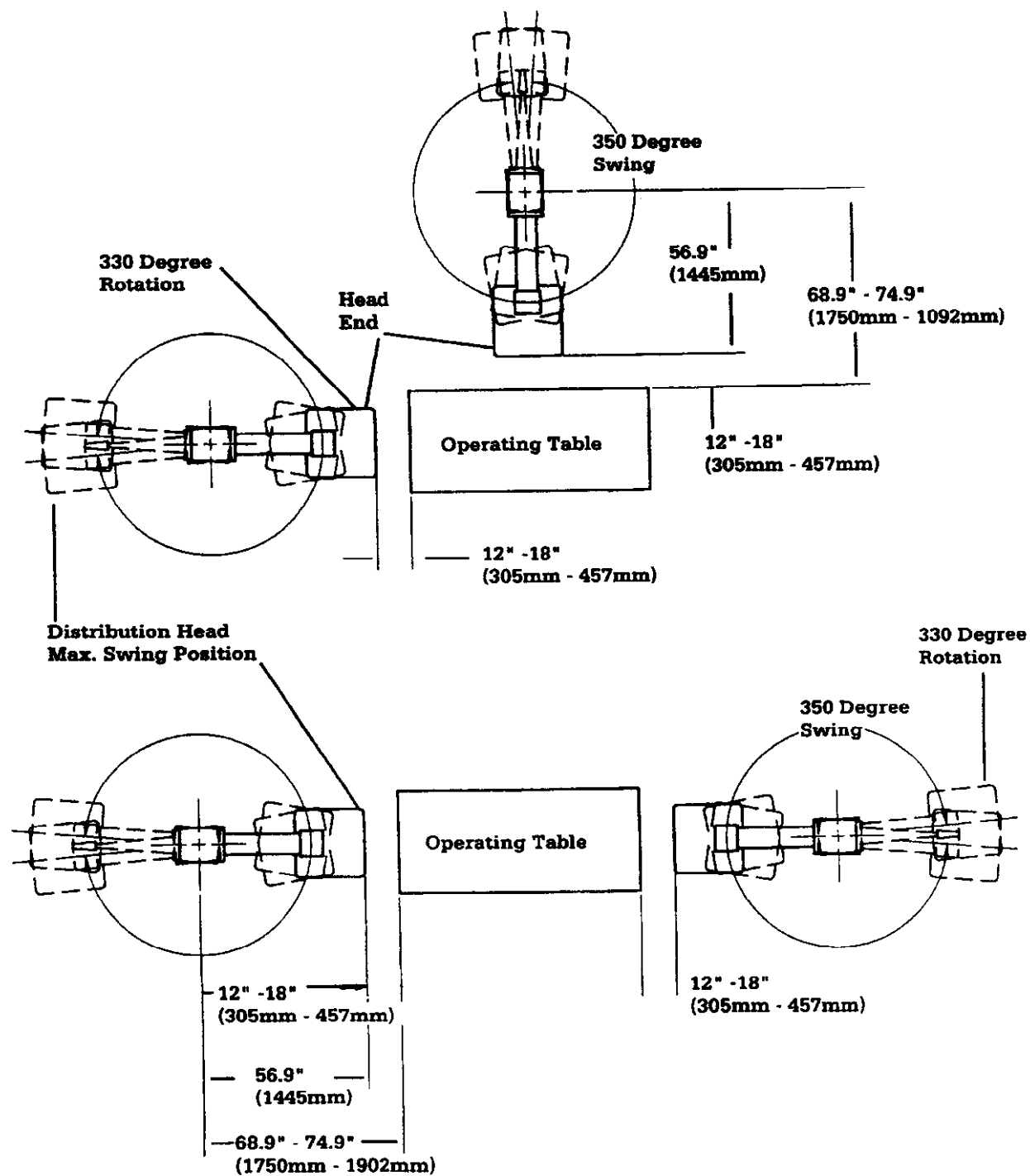
MULTI-SERVICE PENDANT

7/Dimensions

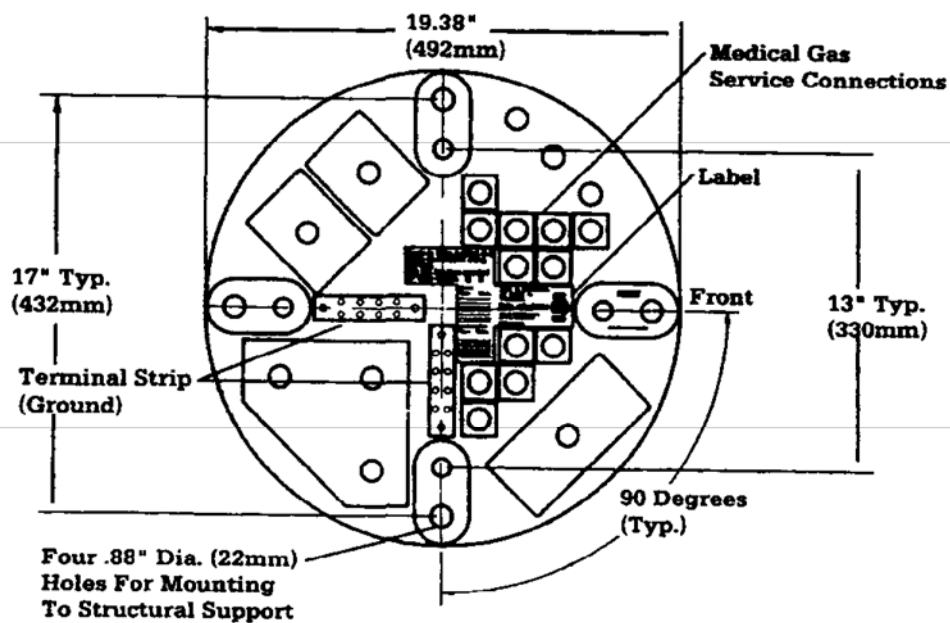
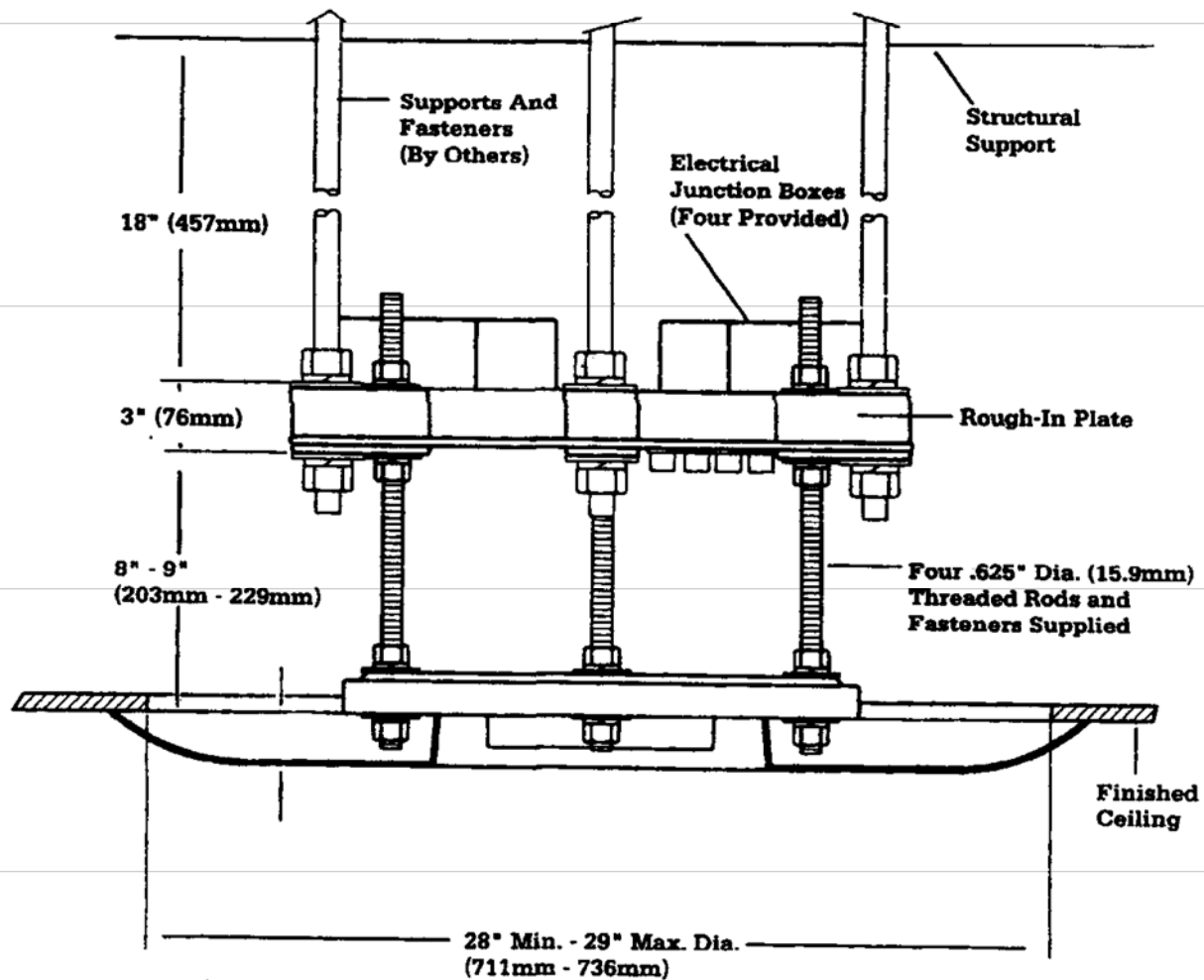


MULTI-SERVICE PENDANT

8/Recommended Locations



9/Installation



Roughing-In Detail

MULTI-SERVICE PENDANT

10/Technical Data

The MEDÆS Multi-Service Pendant is constructed of light-weight aluminum alloy castings enclosed in high impact, flame retardant (UL 94V-0) dress shrouds.

The arm has a 20" (50 cm) vertical range of motion and a horizontal swing of 350 degrees, adjustable in 15 degree increments. The head rotates up to 330 degrees adjustable in 15 degree increments. The reach of the arm, from ceiling pivot to head pivot is 37" (94 cm). The total reach of the pendant with the head perpendicular to the arm axis is 57" (144 cm). The weight capacity of the head's 11" x 20" (27 cm x 50 cm) shelf is 90 pounds (40 kg). The total product weight will vary with configuration but will not exceed 250 pounds (93 kg).

The arm can support up to three independent 20 A electrical circuits, plus low current monitoring circuits. All 120 V, 20 A (15 A in Canada) electrical circuits are fully enclosed in UL rated, liquid tight conduit. A maximum of 10 independent hoses may be run for gas outlets (eight where passive evacuation is specified). Configurations with more than ten outlets are supported through internal interconnections. Vacuum and evacuation outlets are given priority for hose assignment.

Vertical motion is achieved using a 1/8 HP induction motor driven linear motion actuator. Full load amperage is less than 4 amperes. Control of vertical motion is accomplished with a hand control contained in a sculptured housing.

11/Ordering Information

The MEDÆS Multi-Service Pendant has a wide variety of medical gas services and options available. To ensure proper and efficient use of this product, read the instructions carefully before filling in the ordering information.

Project Description _____

Facility Name _____

Finished Ceiling Height _____

12/Instructions

1. Use the Available Services Table to choose the gas services required. Indicate the quantity and whether Diamond III or DISS in the space provided. A maximum of 14 outlets are available for gas services on the front and bottom of the head.
2. Options are located on the two side panels and back panel of the head. Use the Available Options Table to choose the options required. Use the Option Window Positions' diagram as a reference for choosing the window position where each kit will be placed.

13/Available Services

	Quantity	
	Diamond III (Quick Connect)	DISS (Threaded)
Oxygen	_____	_____
Nitrous Oxide	_____	_____
Air	_____	_____
Nitrogen	N/A	_____
Carbon Dioxide	_____	_____
Vacuum	_____	_____
Evacuation	_____	_____
Passive Evac (19mm Connection, 1 per Pendant)		

14/Available Options

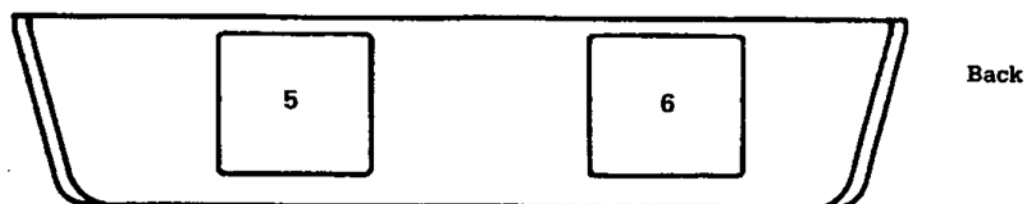
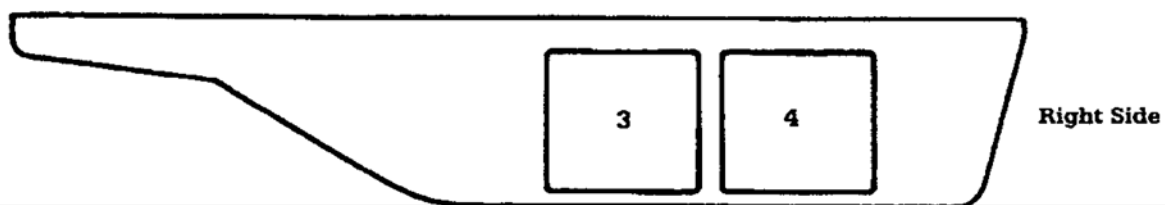
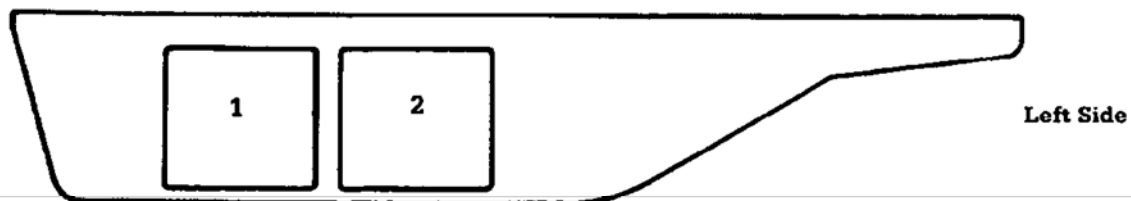
Note: A maximum of three option windows can contain straight blade or twist lock electrical receptacles.

	Per Kit	Window Position
Electrical Receptacle, Straight Blade	2 Duplex Receptacles	_____
Electrical Receptacle, Twist Lock	2 Simplex Receptacles	_____
Ground Receptacle	4 Receptacles	_____
Gas Mass Spectrometer*	1 Inlet/ Monitor Jack	_____
Computer I/O (RS232)	1 Male/1 Female	_____
Monitoring (5 Pin Receptacle)	6 Receptacles	_____
Telephone Jack*	1 Modular Jack	_____
Blank	1 Blank	_____

* Not U.L. Listed

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15/Option Window Positions (Viewed from Front)





MEDÆS Incorporated
2850 Colonnades Court
Caller Box 4225
Norcross, Georgia 30091-4225
Telephone 770.448.6684
800.556.5596

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In accordance with our established policy of constant product improvement, the specifications and dimensions contained herein are updated periodically without notice. To avoid being misinformed, please be sure you have a current copy.

This document is for reference only and is by no means intended to replace any codes or standards which may be applicable in any given circumstance. While every attempt is made to ensure accuracy, MEDÆS Incorporated accepts no responsibility for errors of omission or fact.

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