Operation Theatre Surgical Pendant

The Ceiling Pendant Systems shall provide convenient positioning of medical equipment, medical gas terminal units, electrical and specialty services. The pendant shall be mounted to the ceiling with extremely robust carcass system comprised of stainless steel flanges and supporting rods. The Ceiling Pendant shall comply with HTM2022. The support arms shall be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position.

The multipurpose pendant shall be single electric arm type. The arms shall be available as follows:

- 1000 mm movable arm with 600mm of vertical movement

Electric arm shall be capable of 340 degrees of rotation and be fitted with stops, which can be easily adjusted to suit the desired mode of operation. The arm may be fitted with pneumatic brakes to prevent inadvertent movement. The moveable arm shall be available with electric motor to operate vertical motion. The pendant service heads shall be modular. The head shall be capable of accepting a range of shelves, accessories rails or other accessories.

The Pendant Heads shall support the extrusive range of Physiological Monitor Mounting Solutions.

The Pendant Service Heads shall be in 500mm length and supplied with medical gas outlets, BS 13 amp unswitched sockets. Medical gas outlets and probes shall fully comply with BS 5682:1992. Gas connection between pendant and pipeline shall be carried out via antistatic medical gas hoses comply with EN 739:1998. Both ends of the hoses shall be connected by gas specific NIST (Non-Interchangeable Screw Thread) connectors.

The heavy duty electric arm shall be capable of supporting 90 kg load at maximum reach. Pendant arm shall be RAL 9002 electrostatic powder painted. The medical rail profiles shall have an anodised finish.

The pendant shall have an electric junction box mounted to the carcass system over false ceiling for connection of incoming electrical services: segregated into three compartments, electrical, communications (low-voltage), and critical branch power, as required Preinstalled electrical equipment shall be wired to the junction box. The pendant shall have ground bar located in junction box. Ground bar shall be
copper with compression screws, which shall accept 4 AWG, or smaller building service ground wire.

    All cables used inside the pendant shall be non-flammable low smoke halogen free type. Cables shall be passed through flexible spiral conduit.

Surgical Pendant shall be equipped with the following services:

1. 2 no of Oxygen outlet, ISO 9170:1990 and BS 5682:1992 compatible
2. 1 no of Nitrous oxide outlet, ISO 9170:1990 and BS 5682:1992 compatible
3. 1 no of Medical Air 4 bar outlet, ISO 9170:1990 and BS 5682:1992 compatible
4. 1 no of Medical Air 7 bar outlet, ISO 9170:1990 and BS 5682:1992 compatible
5. 2 no of Medical Vacuum outlet, ISO 9170:1990 and BS 5682:1992 compatible
6. 2 no of electrical box made from moulded white self-extinguishing ABS at both sides of the console
7. 4 no of double unswitched BS 13A standard electrical socket (UPS)
8. 8 no of potential earthing node
9. 1 no of brake button for the control of pneumatic brake
10. 2 no of aluminium extrusion accessories rail
11. 1 no of shelves in 500x470x25 mm sizes
12. 4 no of Pressure gauges for oxygen, nitrous oxide, air 4 and air 7 bar
13. 1 no of vacuum gauge.

The standard range of Operation Theatre Pendant shall be “CE” marked under the Medical Devices Directive 93/42/EEC with approval body number. Under this directive, the specified products shall be classified as Class IIa Medical Devices.