**Wall Mounted Bed Head Unit**

Bed Head Units shall be constructed from aluminium extrusion with round and smooth shape corners and shall be 180cm in length per each patient. The unit shall have three physically separated compartments (for low and extra low voltage electrical services and for medical gas services). The unit shall provide a safe, efficient means of delivering services to patients/staff in both general and special care applications.

The unit shall have smooth curved surfaces, no visible screws. Installation of the unit shall be carried out easily by aluminium rail-brackets which allow simple horizontal and vertical alignment taking into account any wall high spots or unevenness. Removal of the covers for maintenance and pipeline connection shall be easily.

The unit shall consist of a number of modular extrusion capable of being joined together to form a carcass to suit the particular application. The unit shall have a backspin which shall incorporate an area which is 95x22mm for medical gas pipes.

Segregation of services ie. Extra low voltage (<48 volts), low voltage (<500 volts) and medical gases shall be maintained throughout. Medical Gas and Electrical services shall be separated by a separator inside unit. Electric power feedings shall be 220V/50Hz.

The middle compartment of the unit shall be used for medical gas outlets and electrical services but gas services and electric services shall be physically separated. Upper and lower compartments of the unit shall be used for reading and indirect lights and necessary electrical wirings. The lower cover of the unit shall have a 60cm opening for 1x18W reading light illumination. The upper cover of the unit shall have two 60 cm openings for indirect light illumination. There shall be transparent glass which moulded from SAN material. Reflector sheet shall be used under reading and indirect light to enhance the illumination. Both sides of the unit shall be closed by aluminium covers. All cables and terminal block used inside unit shall be non-flammable type. Electronic start ballast shall be used for reading and indirect lights.

The unit shall be manufactured in accordance with forthcoming international and European standards, ISO 11197 and EN 793 for “Medical Supply Units” to HTM 2015 and 2022 and to latest edition of IEE and NEC regulations.
The aluminium extrusion unit shall have an electrostatic powder paint finish on all external surfaces. Unit shall be supplied pre-piped, pre-wired and fully tested. The minimum mounting height of the unit shall be 1.7 meters from the finished floor level. All removable covers of the unit shall be earthed. Electric power feedings shall be 220V/50Hz.

The unit shall consist of following services for each patient,

1. 1 no of Oxygen outlet, ISO 9170:1990 and BS 5682:1992 compatible
2. 1 no of Medical Vacuum outlet, ISO 9170:1990 and BS 5682:1992 compatible
3. 2 no of double unswitched BS 13A standard electrical socket
4. 4 no of potential earthing node
5. 1 no of RJ11 telephone and RJ45 data socket
6. 1 no of 36 Watt fluorescent tube with electronic start ballast
7. 1 no of 18 Watt fluorescent tube with electronic start ballast
8. 1 no of Nurse call provision
9. 1 no of Two gang switch for reading and indirect light

The standard range of Patient Bed Head Unit 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 Ila Medical Devices.