

INSTALLATION INSTRUCTIONS



HU19 VERTICAL BEDHEAD SERVICE SYSTEM



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TABLE OF CONTENTS

Section	Description
1	Safety
2	Description
3	Product Identification
4	Cleaning and Maintenance
5	Protection against Flammable Mixtures
6	Mode of Operation
7	Power Source
8	Disposal
9	Transport, Storage and Operating Conditions
10	Tools required
11	Pre-Installation
12	Mounting the Unit into Position
13	Installation of Services
14	Medical Equipment Rail Fitment
15	Cowling Installation

SECTION 1: SAFETY

Before unpacking and installing the equipment, please carefully read these instructions.

Installation / commissioning, operation and servicing / maintenance of this equipment are to be carried out by suitably competent personnel only.

Do not use oil or grease on any of the gas terminal units or pipe-work for any reason as this could lead to a fire or an explosion. Use only approved oxygen compatible lubricants. If in any doubt, contact Hutz Medical Service Department. (Refer to cover page for contact details).

Prior to carrying out any maintenance on the equipment, and before opening the access panels ensure that the electrical circuits have been de-energised and isolated, to avoid an electrical shock.

The following symbols apply to this product and are used in these instructions and on the product in question. The meaning of these symbols is specified below:



CAUTION!

Failure to comply with this warning could result in serious or fatal injury



CONSULT INSTRUCTIONS FOR USE!

Failure to comply with this notification could result in injury or damage to product



Type B Applied Part



LOT Number



Manufacturer



Authorised Representative in the European Community



European Conformity



Maximum Payload

SECTION 2: DESCRIPTION

The HU19 vertical bedhead service system is comprised of an extruded aluminium section which provides up to 240 volt electrical power, as well as gas, vacuum and scavenger services if specified by the customer, from an external source through another device to the patient.

Certain other services can be provided for the direct use of the user or patient, such as internal lighting, nurse call, communication services and data services.

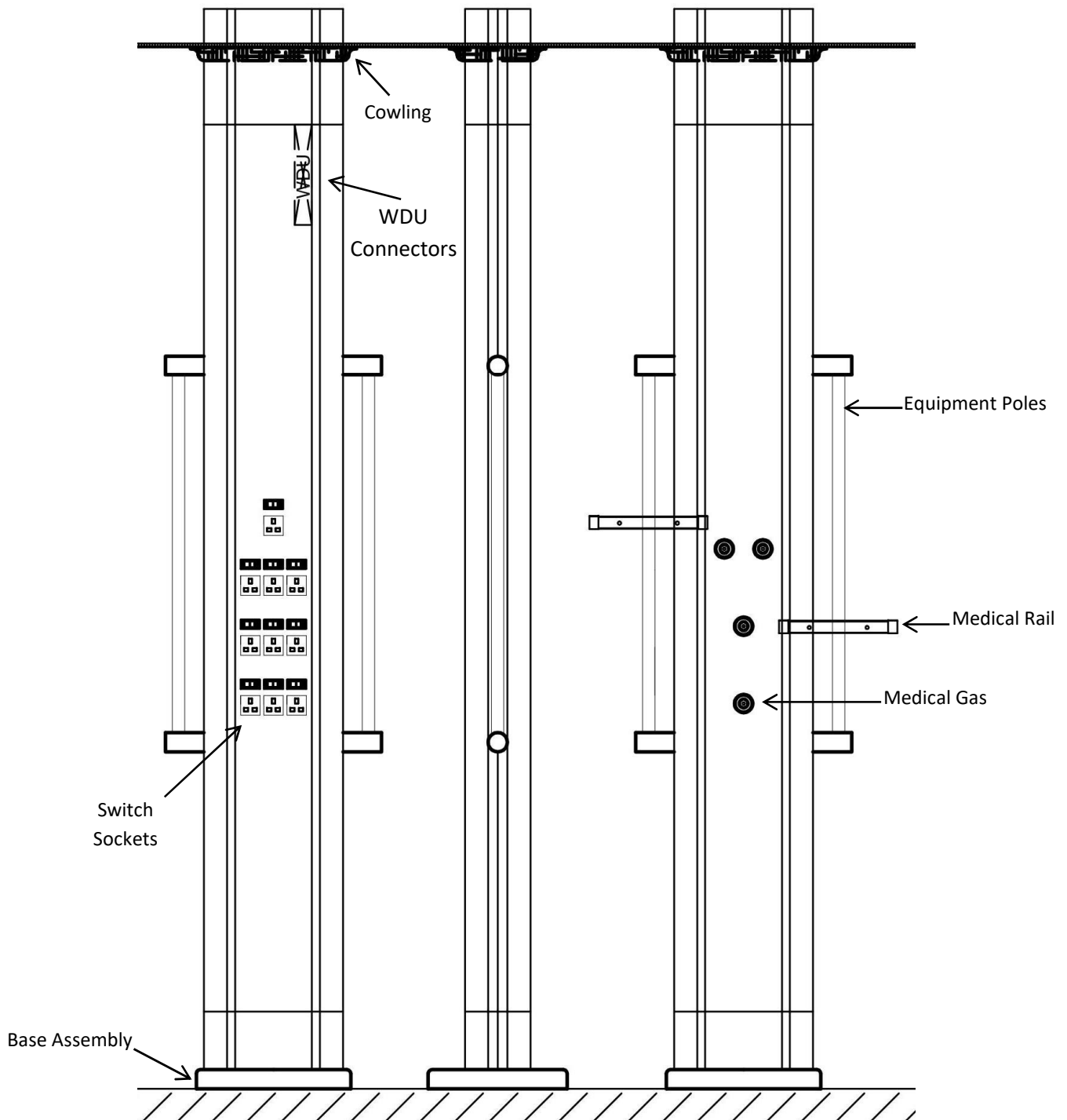
Access panels are provided for installation, maintenance and servicing purposes.

Where specified by the customer, a medical rail can be fitted, on which various attachments can be mounted.

For more information refer to the Product Data Sheet, obtainable from Hutz Medical Service Department (Refer to cover page for contact details)

SECTION 3: PRODUCT IDENTIFICATION

SUPPLY SERVICE: Ceiling Entry



Example for Illustration Purposes Only

For more information, refer to the product catalogue, obtainable from HUTZ Medical Sales Department (Refer to cover page for contact details).

SECTION 4: CLEANING AND MAINTENANCE

The equipment should always be kept clean. An alkaline cleaning agent with a pH range of 12 and 13 is recommended.

As the unit is not fully protected from ingress of liquid, only a slightly damp cleaning cloth should be used to avoid an electrical shock.

No special maintenance of the equipment required, other than to replace consumables.

Contact Hutz Medical Service Department if there are any queries relating to maintenance of the equipment. (Refer to cover page for contact details)

SECTION 5: PROTECTION AGAINST FLAMMABLE MIXTURES



Not protected – not suitable for use with flammable gases

SECTION 6: MODE OF OPERATION

Continuous, i.e. equipment may be left on indefinitely

SECTION 7: POWER SOURCE

Mains operated 110V / 130V, 220V / 240 V, 50 / 60 Hz alternating current.



Electrical connections are only to be carried out by competent persons.

Protection against Shock

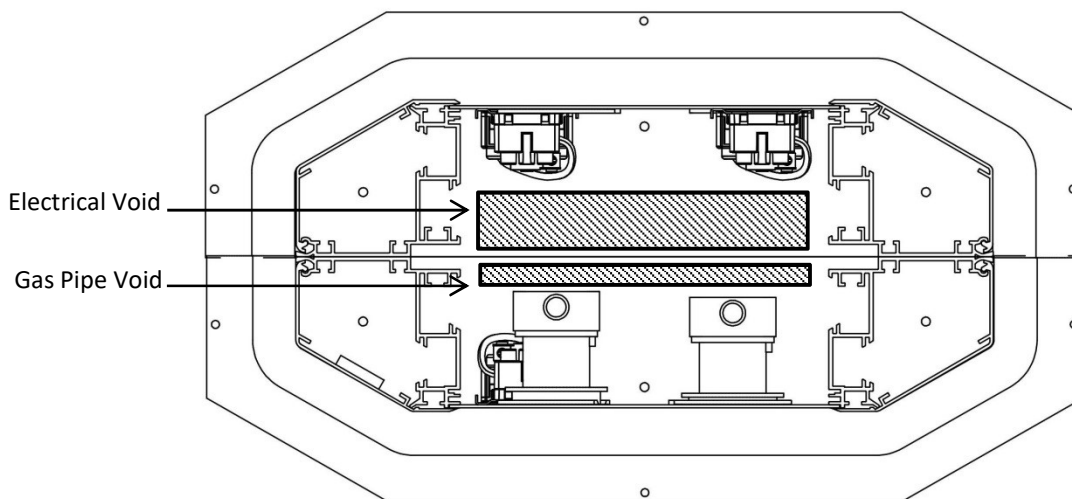
Class 1, Type B equipment (mains supplied equipment using a protected earth)

Wiring

The Wiring Legend is affixed to the inside of the unit.

Electromagnetic Interferences

In the event that data cables are required in the equipment, ensure that the data cables are fed through a flexible self-extinguishing conduit to shield them from the possible effects of electromagnetic interferences.



SECTION 8: DISPOSAL

Used lamps are to be disposed of according to the applicable regulations of the region or country involved.

Any other materials should be disposed of in such a way that they can be re-cycled.

The equipment does not contain any hazardous substances.

SECTION 9: TRANSPORT, STORAGE AND OPERATING CONDITIONS

Ambient temperature: 0 - 40°C

Relative humidity (non-condensing): 10 – 95%

Atmospheric pressure: 70 – 110 kPa

SECTION 10: TOOLS REQUIRED

- 2.5 mm Allen key;
- High impact drill;
- Hammer;
- Tape measure;
- Spirit Level;
- Ø12.0 Masonry Drill;
- Torque wrench (required torque 50Nm);
- Ratchet and 14mm tube socket;
- Phillips screwdriver;
- 4mm Allen Key (where medial rails are supplied);
- Torque Wrench 9Nm with 4mm Hex Key End Bit (where medial rails are supplied).

SECTION 11: PRE-INSTALLATION INSTRUCTIONS

11.1 Remove the Unit from all the packing and place the unit on a flat surface or table. The packaging is to be discarded for recycling purposes according to respective National Environmental Regulations.

11.2 The following components are included with the HU19 Unit

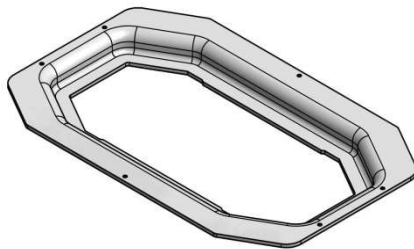
- 11.2.1 HSA M12 65/50/15 Stud Anchor;
- 11.2.2 Ceiling cawling;
- 11.2.3 No.: 4 x 45 Pozi-drive screws;
- 11.2.4 White plastic screw head covers;
- 11.2.5 Medical rail (if medical rail is supplied);
- 11.2.6 Medical rail spacers (if medical rail is supplied);
- 11.2.7 M6 x 55mm Countersunk screws (if medical rail is supplied).

All the above items are pre-packed and placed in the primary packaging.

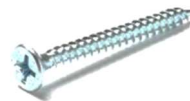
11.2.1



11.2.2



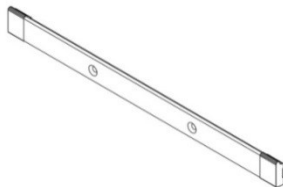
11.2.3



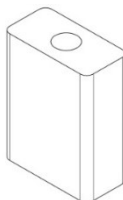
11.2.4



11.2.5



11.2.6



11.2.7



If any of the above mentioned items have not been packed with the unit or any items have been damaged, contact HUTZ Medical Service Department. (Refer to cover page for contact details)

Additional Components may be included on customer request.

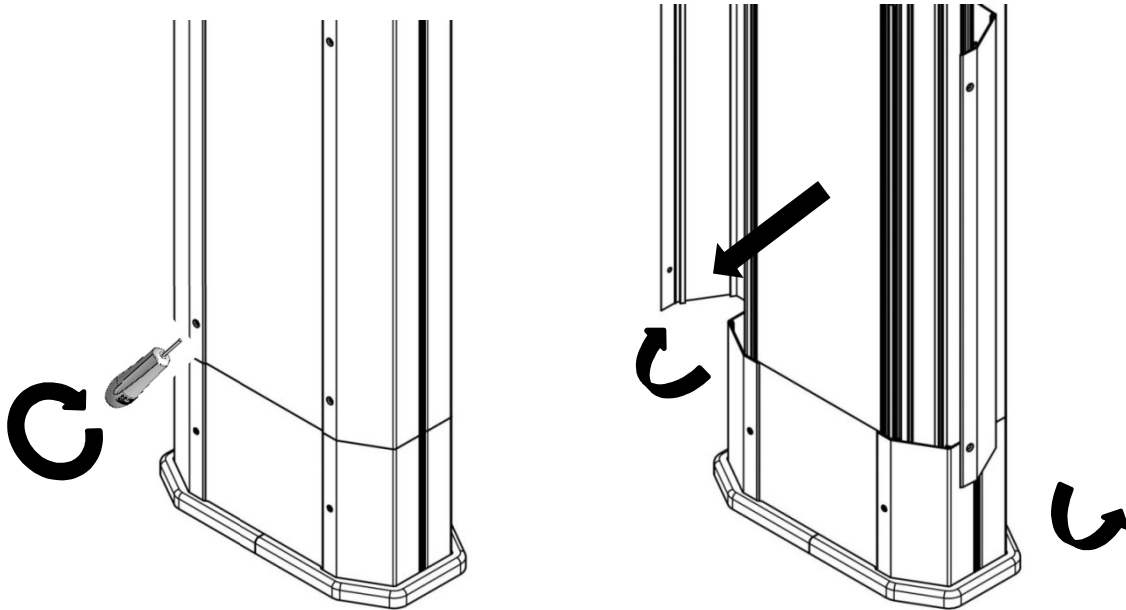
SECTION 12: INSTALLATION INSTRUCTIONS



The concrete floor should be level, flat, smooth and free of voids.

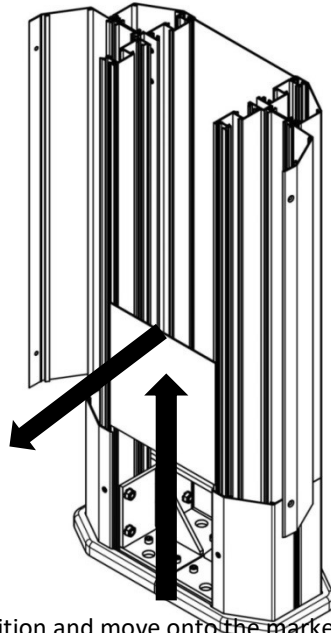
For mounting to any other surfaces, contact Hutz Medical Service Department. (Refer to cover page for contact details)

- 12.1 Using a measuring tape, mark-off the position for the aluminium base plate (attached to the unit) on the concrete floor. Refer to the Hospital Floor Plan. (Obtainable from the main contractor or Architect).
- 12.2 Use the 2.5mm Allen key to loosen the lid screws. Rotate the lids outwards and remove the centre panel. Place the centre panel in a safe place to prevent any damage while installing the unit.



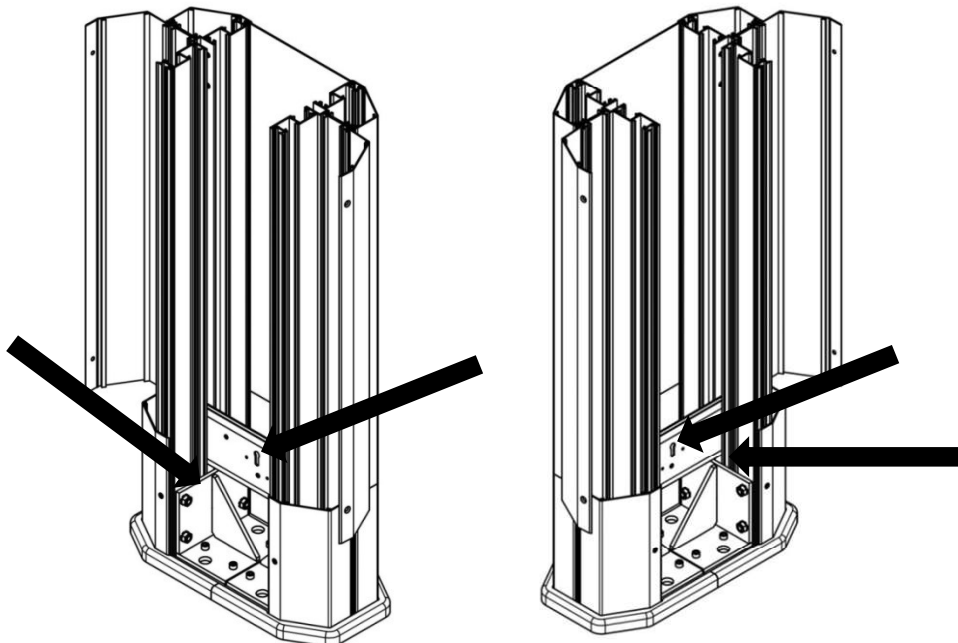
SECTION 12: INSTALLATION INSTRUCTIONS

- 12.3 Loosen the bottom panel screws, slide the bottom panel upwards to remove it. This will allow access to secure the Unit onto the floor. Place the bottom panel in a safe place to prevent any damage while installing the unit.



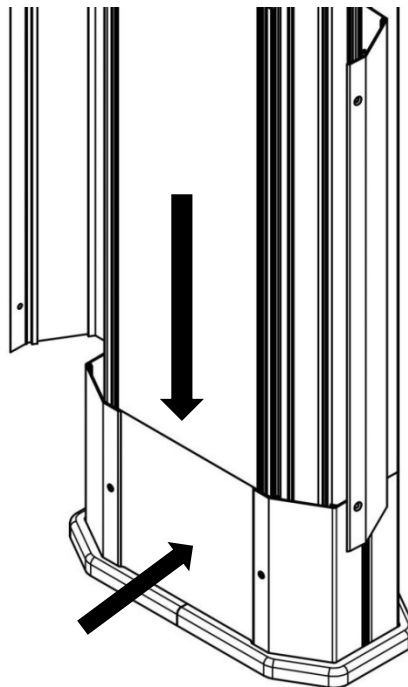
- 12.4 Lift the Unit to a vertical position and move onto the marked-out position.
DO NOT SLIDE THE UNIT ON THE CONCRETE FLOOR TO PREVENT DISLODGING THE RUBBER SEAL ON THE BOTTOM OF THE ALUMINIUM BASE PLATE.

- 12.5 Mark-off the position of the 4x mounting holes pre-drilled in the Aluminium Base Plate, as illustrated below.



SECTION 12: INSTALLATION INSTRUCTIONS (cont.)

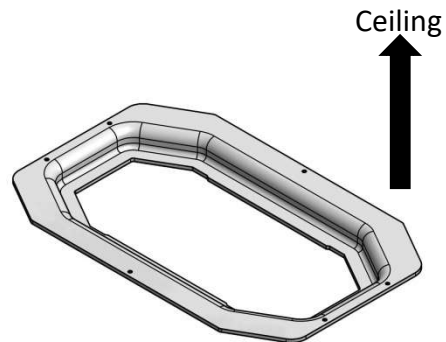
- 12.6 Move the Unit away from the area to be drilled, by lifting up the unit, to avoid ingress. **DO NOT SLIDE THE UNIT** (Refer to #12.4)
- 12.7 Drill the 4x Ø12mm holes, to the required depth to accommodate the Dyna Bolts. Remove the excess debris from the holes and clean all debris / dust from the mounting surface.
- 12.8 Move the Unit into position. **DO NOT SLIDE THE UNIT** (Refer to #12.4)
- 12.9 Fit the 4x M10 Washers (Refer to #11.2.2) under the Dyna Bolt Nuts as supplied (Refer to #11.2.1)
- 12.10 Insert the Dyna Bolts through the pre-drilled holes in the Aluminium Base Plate into the holes drilled in the concrete and tap with a hammer until the washer makes contact with the Aluminium Base Plate.
- 12.11 Tighten the DynaBolts and torque to 50Nm.
IF THE SPECIFIED TORQUE CANNOT BE ACHIEVED, IT MEANS THAT THE BOLT IS NOT SECURE IN THE CONCRETE. CONTACT HUTZ MEDICAL SERVICE DEPARTMENT FOR ANY ASSISTANCE IN THIS REGARD. (Refer to Cover Page for Contact Details)
- 12.12 Re-fit the bottom panel by sliding the panel down, ensuring it seats itself on the Aluminium Base Plate and re-fit the screws. The Unit is now ready for installation of services.



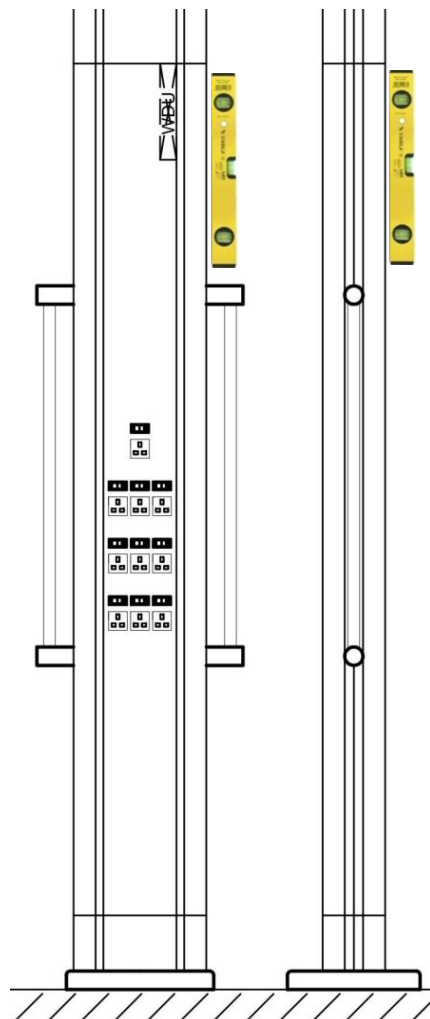
SECTION 12: INSTALLATION INSTRUCTIONS (cont.)

- 12.13 It is recommended to brace the top of the Unit by fitting wire ties, steel brackets, etc. from the Unit to the beams or other means of suitable anchors.
DO NOT ATTACH OR FIX THE TIES TO THE MEDICAL GAS COPPER PIPES

- 12.14 Ensure that the cowling is fitted over the Unit and that it is the right way up as illustrated below.



- 12.15 Use a spirit level to check that the Unit is perpendicular in 2x positions as illustrated below.



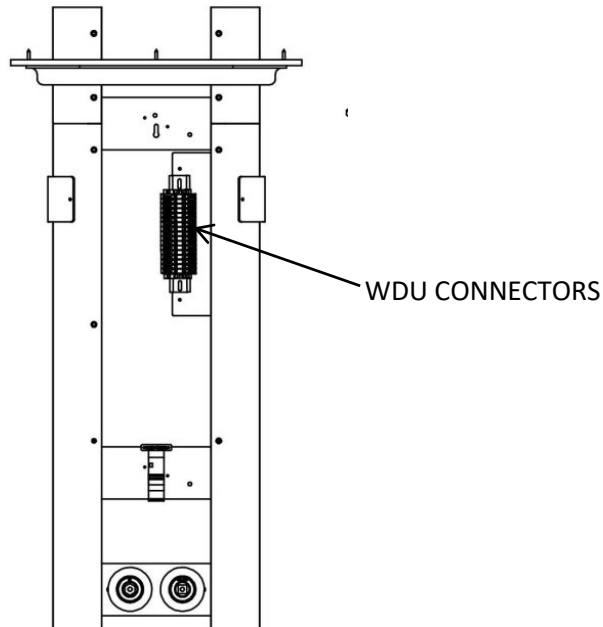
SECTION 13: INSTALLATION OF SERVICES




13.1 Electrical Installation:

All electrical installations shall be performed by competent persons.

13.1.1 Electrical terminations are made directly to the WDU Connectors; situated behind the centre panel area as illustrated below.



13.1.2 Refer to the Wiring Legend as per specimen below, which is fixed to the rear side of the centre panel, to indicate the circuit/s allocated to the respective WDU Connectors.

		WIRING LEGEND	Drawing No.:
Job No:	Project:		Date:

SECTION 13: INSTALLATION OF SERVICES (cont.)

13.2 Gas Installation:

13.2.1 Where gas / vacuum / scavenging services are specified, the medical grade copper pipes protrude from the unit as supplied, and are individually identified by means of descriptive, colour coded flow directional labels.

13.2.2 Recommended copper to copper on-site jointing process: Silver / copper / phosphorus brazing alloy type CP1 or CP04 to BS 1845 (or equivalent) using a clean, dry, oil and oxygen free nitrogen inert gas shield with no flux.



Warning: Cross-connection of medical gas pipelines could prove fatal

13.2.3 Ensure that the gas pipes have been bonded to the earth system.

13.2.4 The gas terminal units and piping system in the unit have been fully factory leak tested, but after connection to the mains supply, the entire gas reticulation system is to be tested to BS-EN-ISO 7396-1 before being commissioned for use. Refer any queries in this regard to Hutz Medical Service Department. (Refer to Cover Page for Contact Details)

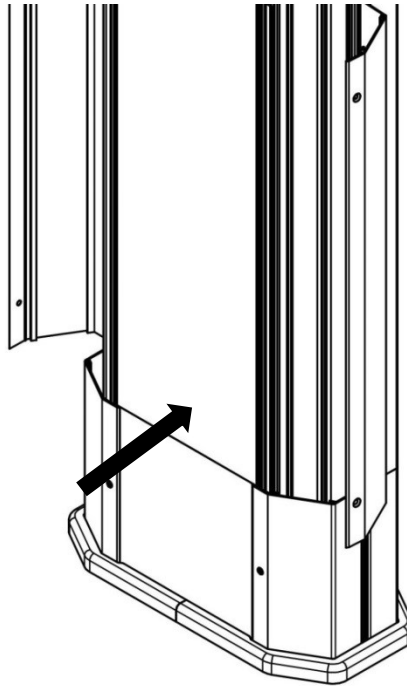


NB: Gas connection and testing to be carried out only by certified gas installer

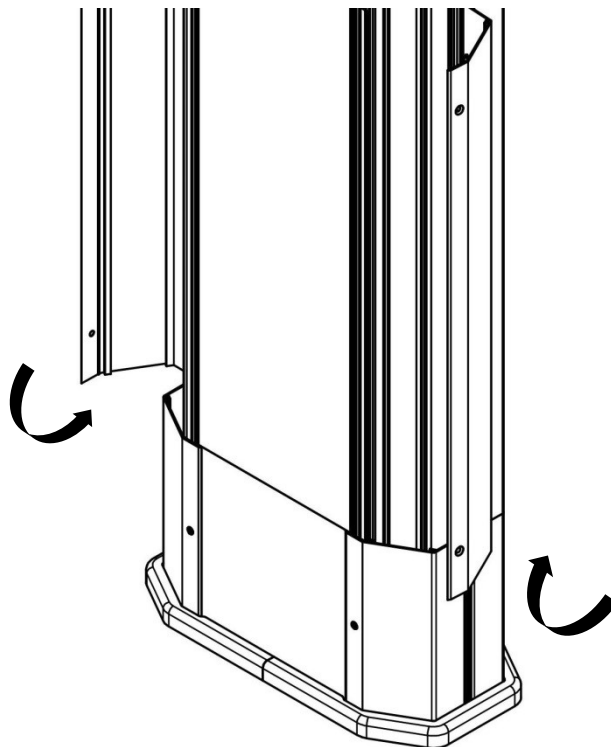
SECTION 13: INSTALLATION OF SERVICES (cont.)

13.3 Ensure that the inside of the unit; the left- and right hand lid channels are dust free and cleaned out before re-assembling the Unit.

13.4 Re-fit the centre panel, ensuring the services protrude through the cut-outs provided.

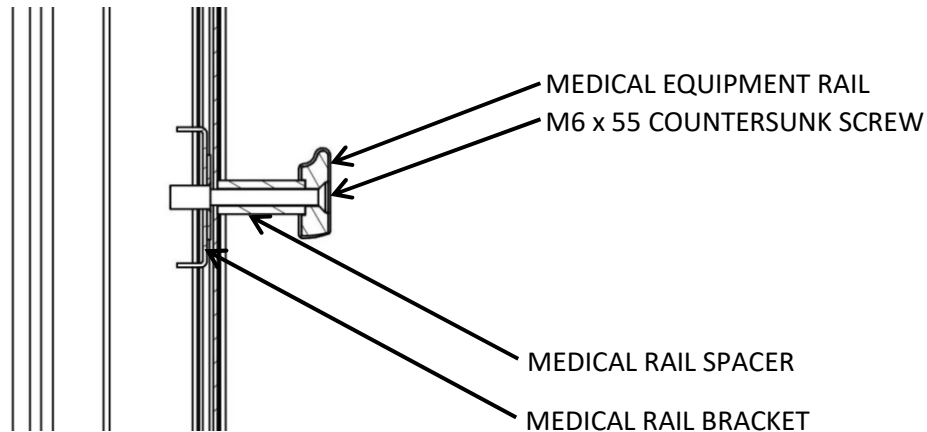


13.5 Close the left- and right hand lid by rotating the lids inward, as illustrated below and tighten the lid screws using the 2.5mm Hexagon Allen Key provided.



SECTION 14: MEDICAL EQUIPMENT RAIL INSTALLATION

- 14.1 Secure the Medical Equipment Rail onto the unit by inserting the Countersunk Screws provided, (Refer to # 11.2.8) through the Medical Equipment Rail and the Spacer respectively (Refer to # 11.2.6/7). Use a 4mm Hexagon Allen Key to tighten the Countersunk Screws through the Centre Panel into the Medical Rail Bracket, behind the Centre Panel. Torque the Countersunk Screws to 9Nm.



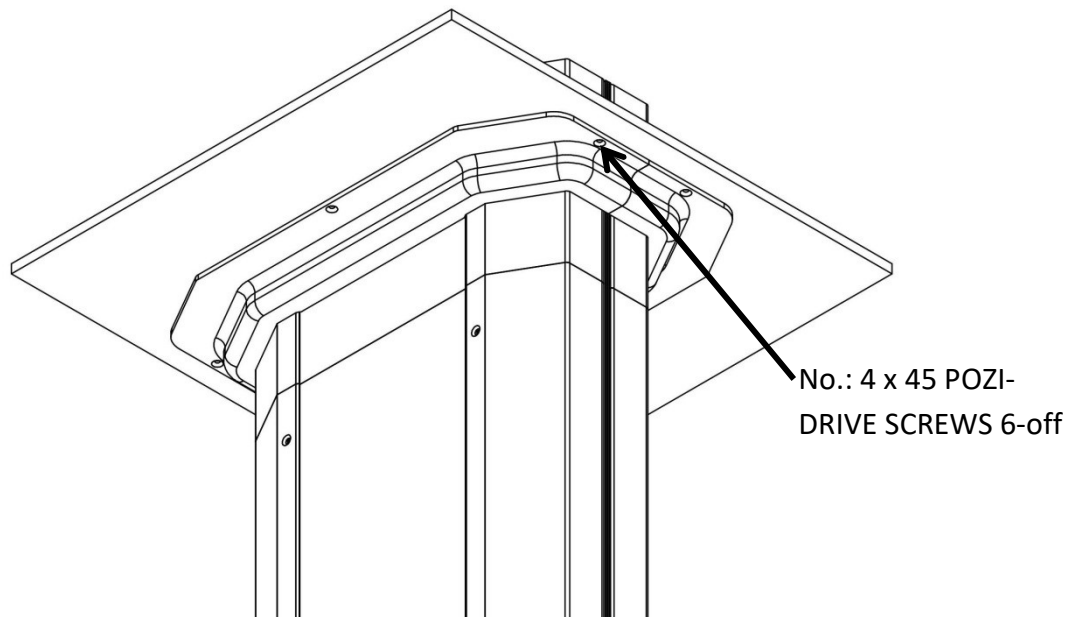
The Testing of the Medical Equipment Rail is a requirement after installation– (where fitted)

The re-testing of the Medical Equipment Rail is a requirement after been removed due to servicing, maintenance and/or repair work – (where fitted)

SECTION 15: COWLING INSTALLATION

For HU19 Units that protrude through the ceiling:

- 15.1 Ensure the Unit is secure.
- 15.2 Slide the Cowling up against the ceiling. (Refer to # 11.2.3)
- 15.3 Mark the fixing hole positions on the ceiling board through the 6x pre-drilled holes in the Cowling by using a $\varnothing 4.5\text{mm}$ drill.
- 15.4 Slide the cowling around the unit, press-up against the ceiling and secure by using the Pozi-drive Screws provided (Refer to # 11.2.4) into the Ceiling.
- 15.5 Insert and press the White Screw Head Covers provided over the Pozi-drive Screws. (Refer to # 11.2.5)



NOTES

Lined area for notes.