

INSTALLATION INSTRUCTIONS



HU12 THEATRE CONTROL PANEL



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SECTION 1: SAFETY

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

Installation / commissioning, operation and servicing / maintenance of this equipment is 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's 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 as 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



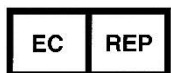
Type B Applied Part



LOT Number



Manufacturer



Authorised Representative in the European Community



European Conformity



Maximum Payload

SECTION 2: DESCRIPTION

The HU12 Theatre Control Panel comprises of a fabricated stainless steel frame and stainless steel fascia panels. The unit provides up to 240 volt electrical power, as well as gas, vacuum and scavenging services as specified by the customer, from an external source through another device to the patient.

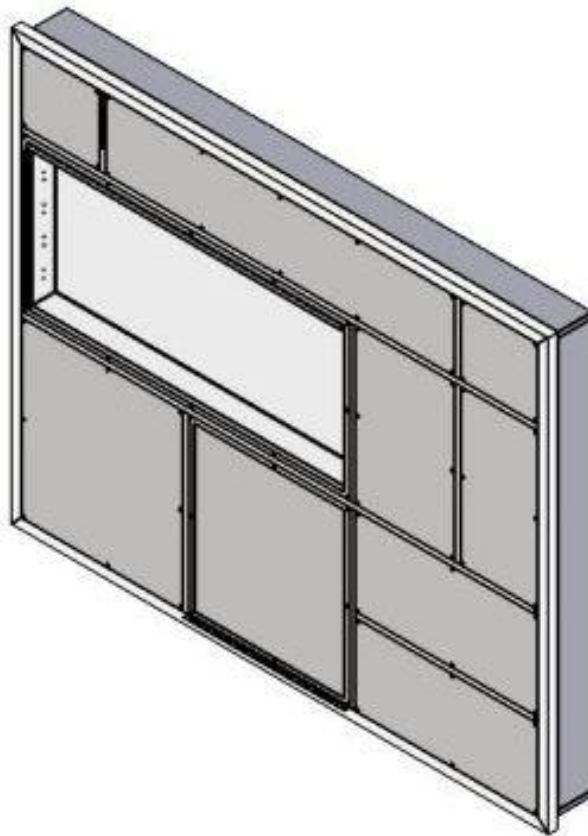
Certain other services can be provided such as communication and data services, visual displays etc. as specified by the customer.

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

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

SECTION 3: PRODUCT IDENTIFICATION

SUPPLY SERVICE: Front Entry with Architrave



Major Variant

Example for Illustration Purposes Only

For more information, refer to the Product Data Sheet - obtainable from Hutz Medical's Service 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 to 13 is recommended.

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

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

A separate Service / Maintenance Manual will be issued on handover of the project.

Contact HUTZ Medical's 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 fixed 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 recycled.

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%

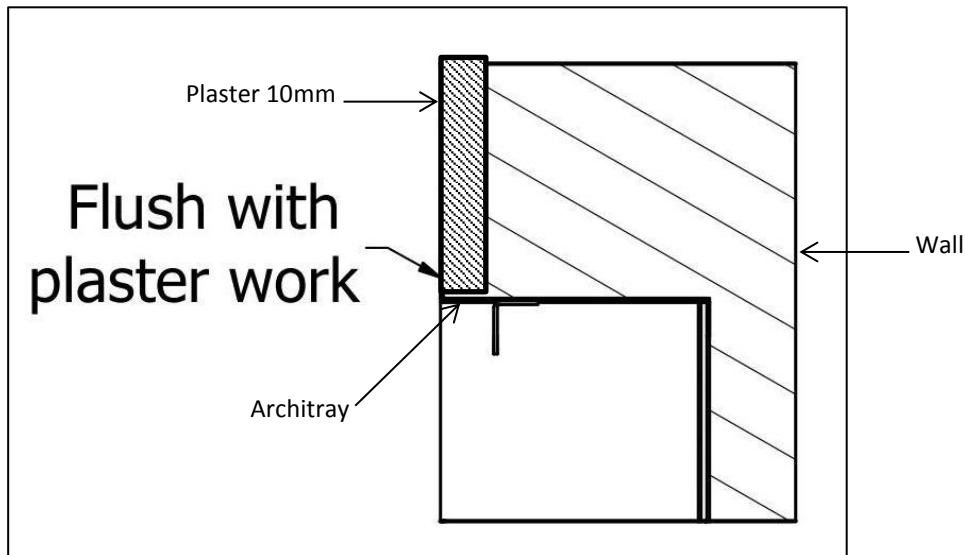
Atmospheric pressure: 70 – 110 kPa

SECTION 10: TOOLS REQUIRED

- 2.5mm Allen key;
- 13mm open ended or ring spanner (2 of).

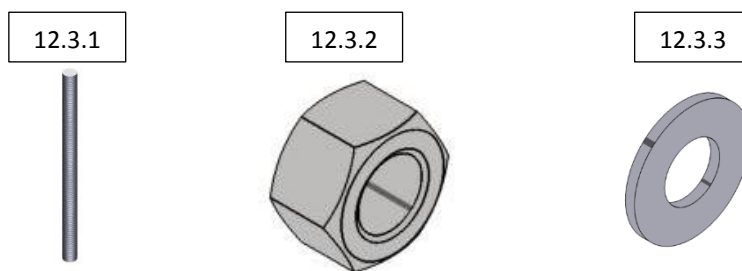
SECTION 11: ARCHITRAY INSTALLATION

- 11.1 Remove the HU12 architrave from the packaging and place it on a flat surface. The packaging is to be discarded for recycling purposes according to respective National Environmental Regulations.
- 11.2 Installation of the architrave is the responsibility of the builder. Ensure that the architrave is securely installed, level, perpendicular, and flush with the plaster as illustrated below. To ensure a neat finish it is recommended that the wall is plastered after the architrave is installed.

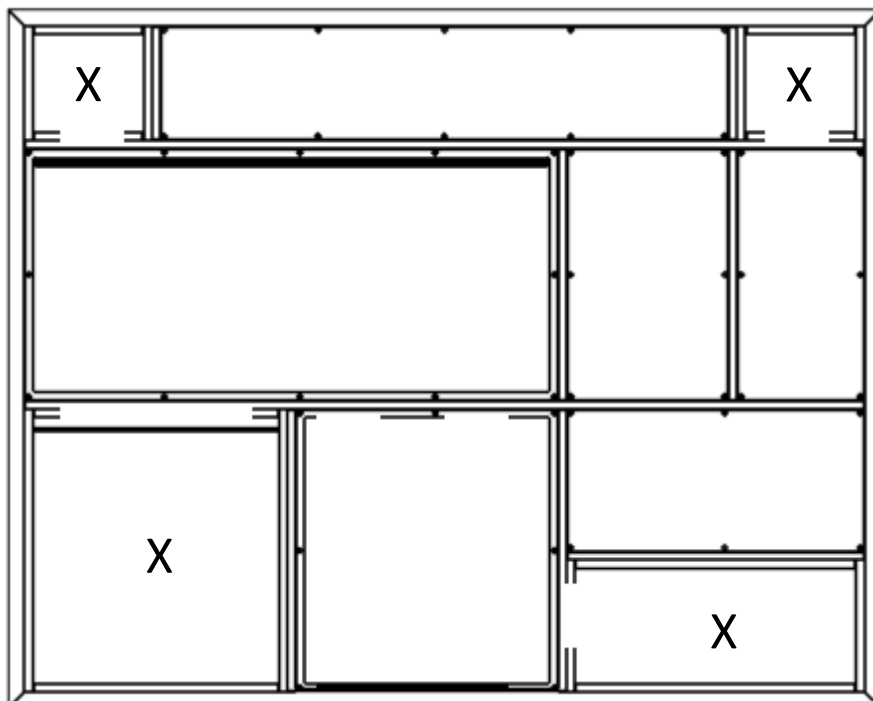


SECTION 12: THEATRE CONTROL PANEL INSTALLATION

- 12.1 Remove the HU12 Theatre Control Panel from the packaging and rest it against a wall in a vertical position. **DO NOT REMOVE THE PROTECTIVE TAPE OVER THE SERVICES AND FRONT SIDE OF THE THEATRE CONTROL PANEL.**
- 12.2 The packaging is to be discarded for recycling purposes according to respective National Environmental Regulations.
- 12.3 The following components are included with the HU12 unit:
- 12.3.1 M8 x 100mm Threaded Bar – 4 of;
 - 12.3.2 M8 Plain Flat Washers – 8 of;
 - 12.3.3 M8 Hexagon Nuts – 8 of.

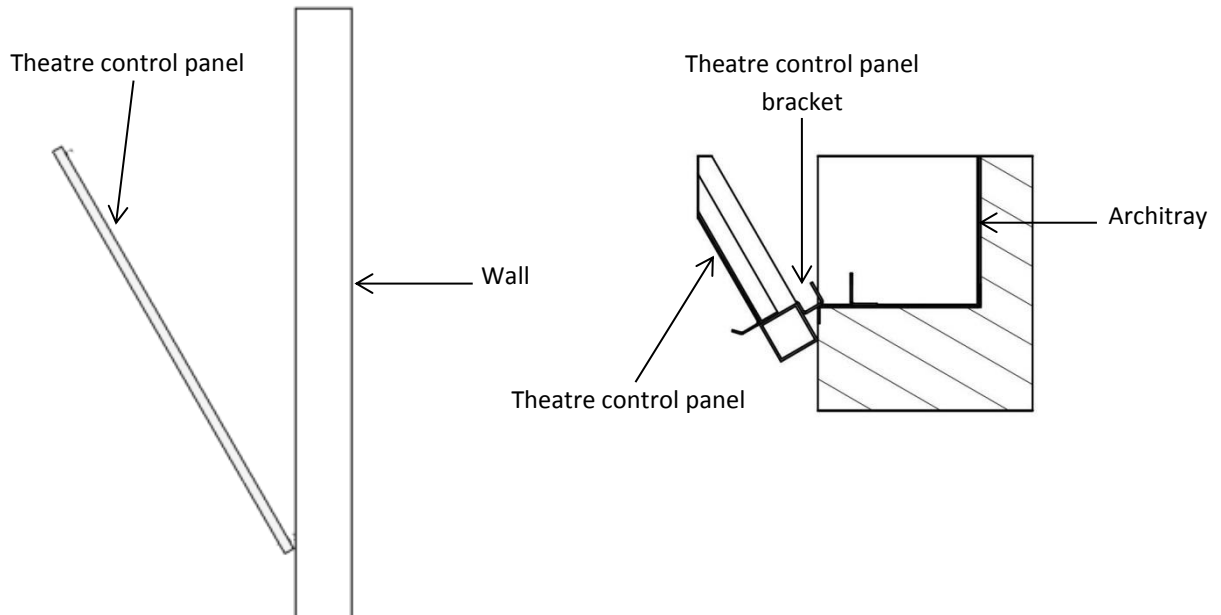


- 12.4 Remove the front fascia in the corners of the theatre control panel as illustrated below with an 'X'. Use the 2.5mm Allen key to remove the M4 counter head screws.

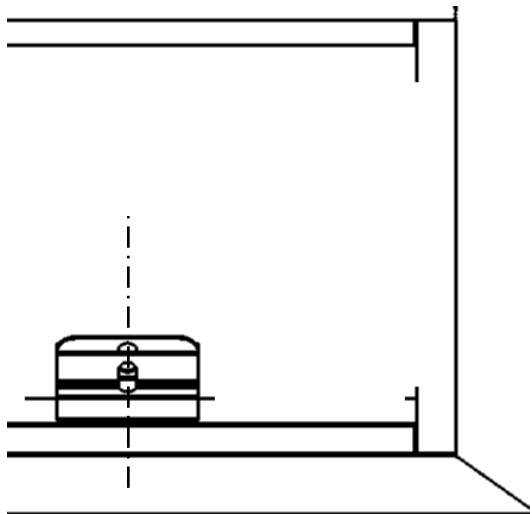


SECTION 12: THEATRE CONTROL PANEL INSTALLATION

- 12.5 Pick-up and rest the HU12 Theatre Control Panel at the bottom, on the inside of the Architrave as illustrated below.



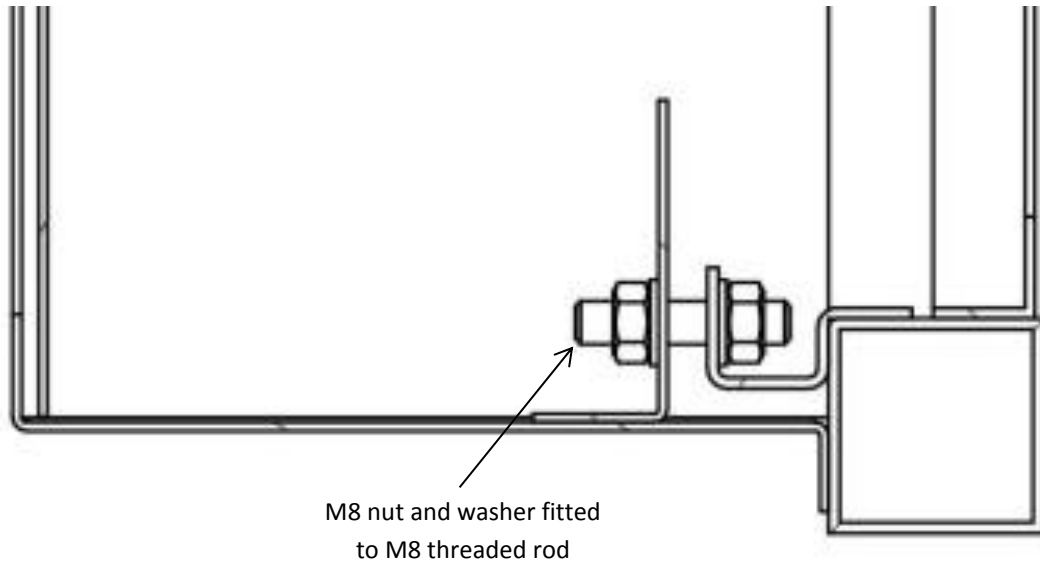
- 12.6 Align the holes in the Architrave and HU12 Theatre Control Panel brackets with each other.



- 12.7 Place the M8 threaded rod with a M8 plain flat washer and hexagon nut respectively through the architrave bracket from the inside of the architrave, towards the outside.
- 12.8 Place the M8 plain flat washer and hexagon nut respectively on from the outside in order to clamp the HU12 Theatre Control Panel bracket against the architrave bracket.

SECTION 12: THEATRE CONTROL PANEL INSTALLATION

- 12.9 Tighten the M8 hexagon nuts until the HU12 Theatre Control Panel is flush, up against the wall.

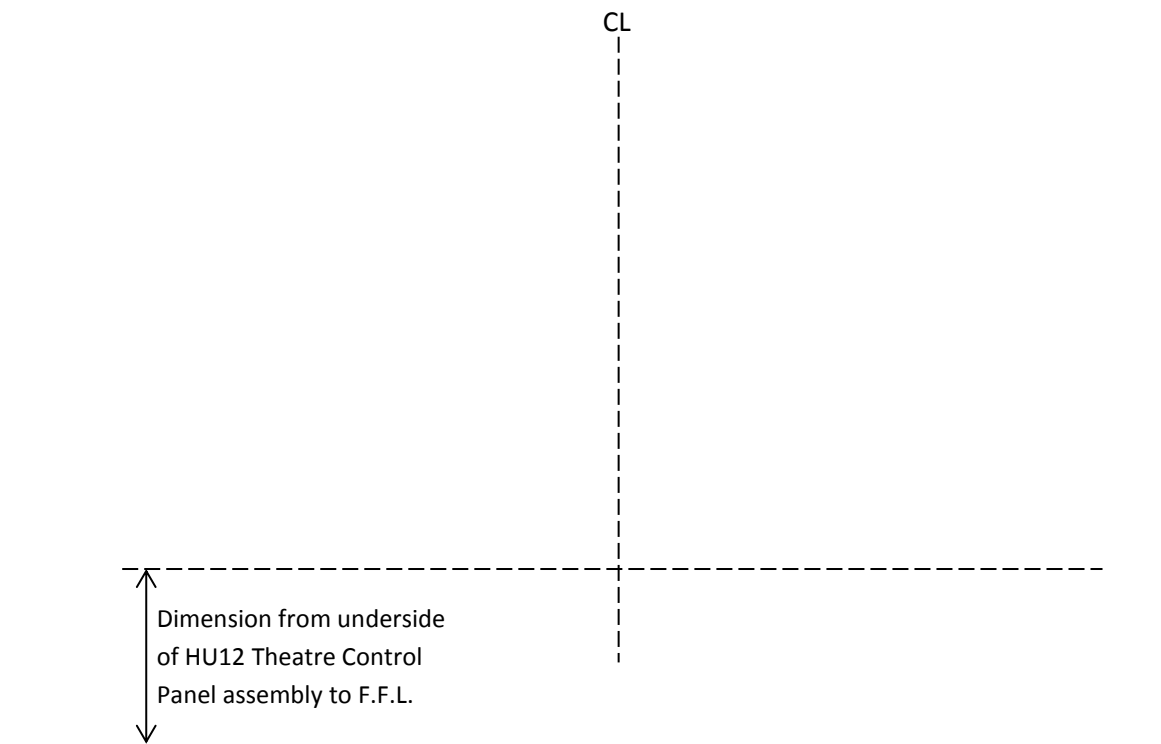


- 12.10 Grey or clear silicone can be used to finish off the installation of the HU12 Theatre Control Panel against the plastered wall.
- 12.11 Replace the panels removed in #12.4.

SECTION 12: THEATRE CONTROL PANEL INSTALLATION

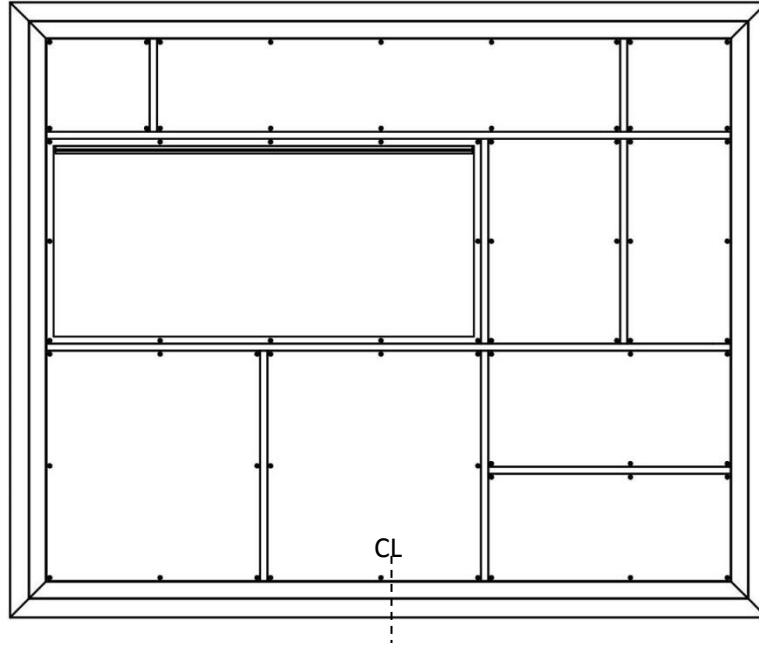
Installation of Surface Mounted HU12 Theatre Control Panels

- 12.12 Remove the HU12 Theatre Control Panel from all the packing and rest it against a wall in a vertical position. **Do not remove the protective tape over the services and front side of the HU12 Theatre Control Panel.** The packaging is to be discarded for recycling purposes according to respective National Environmental Regulations.
- 12.13 Refer to the Floor Plan to determine the vertical centre position of the HU12 Theatre Control Panel and mark-off the vertical centre line on the respective wall to be installed upon.
- 12.14 Refer to the HUTZ Medical drawing supplied to determine the horizontal distance from the Final Floor Level (FFL) and mark-off the horizontal line on the respective wall for the HU12 Theatre Control Panel assembly to be installed upon.

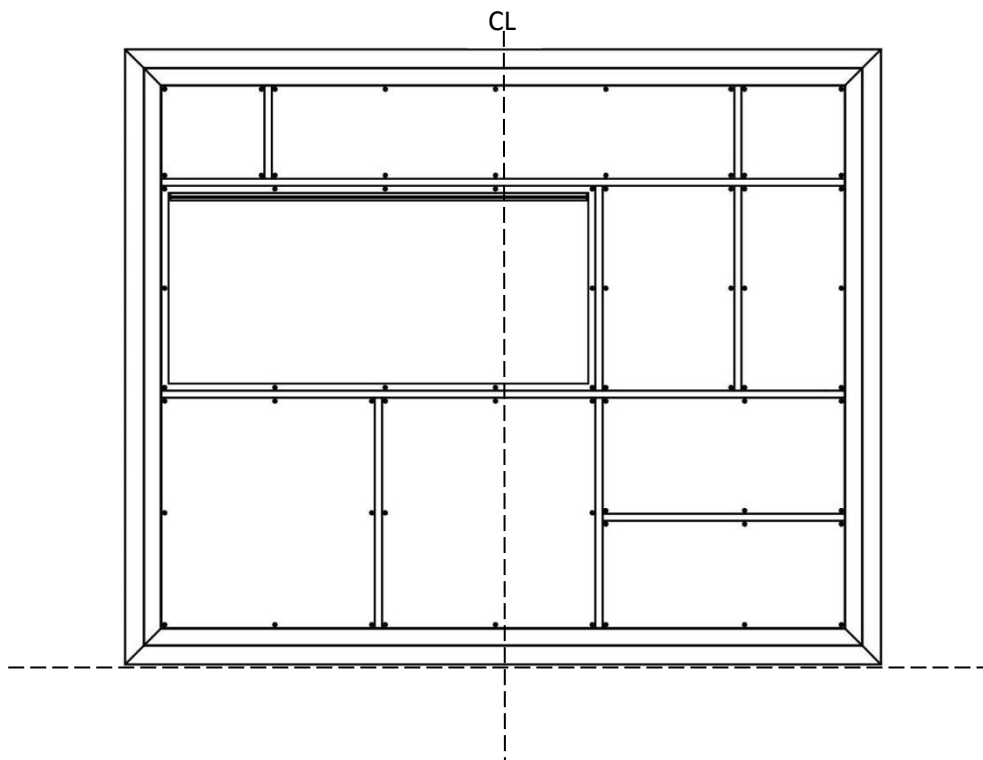


SECTION 12: THEATRE CONTROL PANEL INSTALLATION

- 12.15 Mark the vertical centre line with a permanent marker on the **protective tape** over of the HU12 Theatre Control Panel assembly at the bottom of the unit.



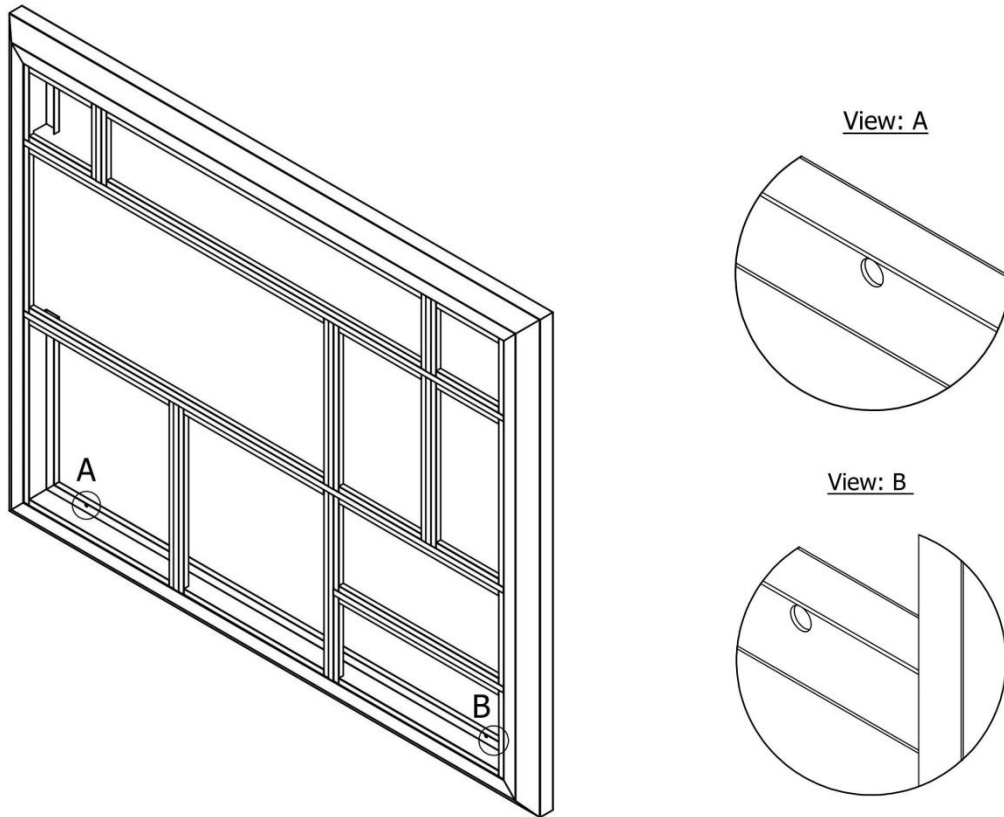
- 12.16 Lift the HU12 Theatre Control Panel assembly and position the unit so that the horizontal line aligns with the bottom of the unit and the vertical centre line on the unit aligns with the vertical centre line marked off on the respective wall.



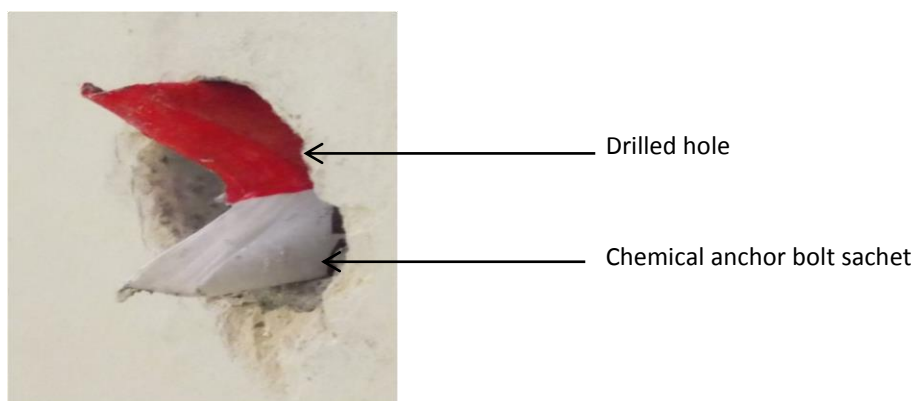
F.F.L.

SECTION 12: INSTALLATION INSTRUCTIONS

- 12.1 Mark-off the position of the 4x Ø13mm pre-drilled holes; 2x top (as illustrated) and 2x bottom in the inside of the HU12 Theatre Control Panel frame.



- 12.2 Drill the 4-off Holes with the Ø14mm SDS Drill Bit to 120mm deep; deep enough for the M12 chemical anchor bolt sachet to be inserted into the drilled hole and be flush with the wall.
- 12.3 Push the chemical anchor bolt sachet; point first into the drilled hole and flush with the wall; as illustrated below.



SECTION 12: INSTALLATION INSTRUCTIONS

- 12.4 Lock the 2-off M12 hexagon nuts onto the chemical anchor threaded rod with the 19mm spanner and the 19mm tube socket.
- 12.5 Turn the chemical anchor threaded rod into the chemical anchor sachet, using a SDS drilling machine; with the SDS socket adaptor and 19mm socket. The chemical anchor threaded rod has to be inserted into the chemical anchor sachet to the machined mark on the chemical anchor threaded rod; to indicate the minimum installation depth required into the drilled hole in the slab; as illustrated below.

Machine mark on
chemical
anchor bolt



- 12.6 Leave the chemical anchor bolts to set for 1 hour before installing the HU12 Theatre Control Panel onto the wall. Do not tighten the nuts at this point of time.
- 12.7 Remove the 2-off M12 hexagon nuts from the chemical anchor threaded rod.
- 12.8 Pick-up the HU12 Theatre Control Panel and locate the chemical anchor threaded rod through the pre-drilled holes in the HU12 Theatre Control Panel frame.
- 12.9 Screw the M12 hexagon nuts on and tighten until the HU12 Theatre Control Panel is flush, up against the wall.
- 12.10 **Remove ONLY the protective tape that is on the sides of the HU12 Theatre Control Panel assembly.**
- 12.11 Grey or Clear Silicone can be used to finish off the installation of the HU12 Theatre Control Panel assembly where the unit is against the plastered wall.
- 12.12 Replace the front fascias in the 4-off corners of the HU12 Theatre Control Panel; that were removed in #12.3

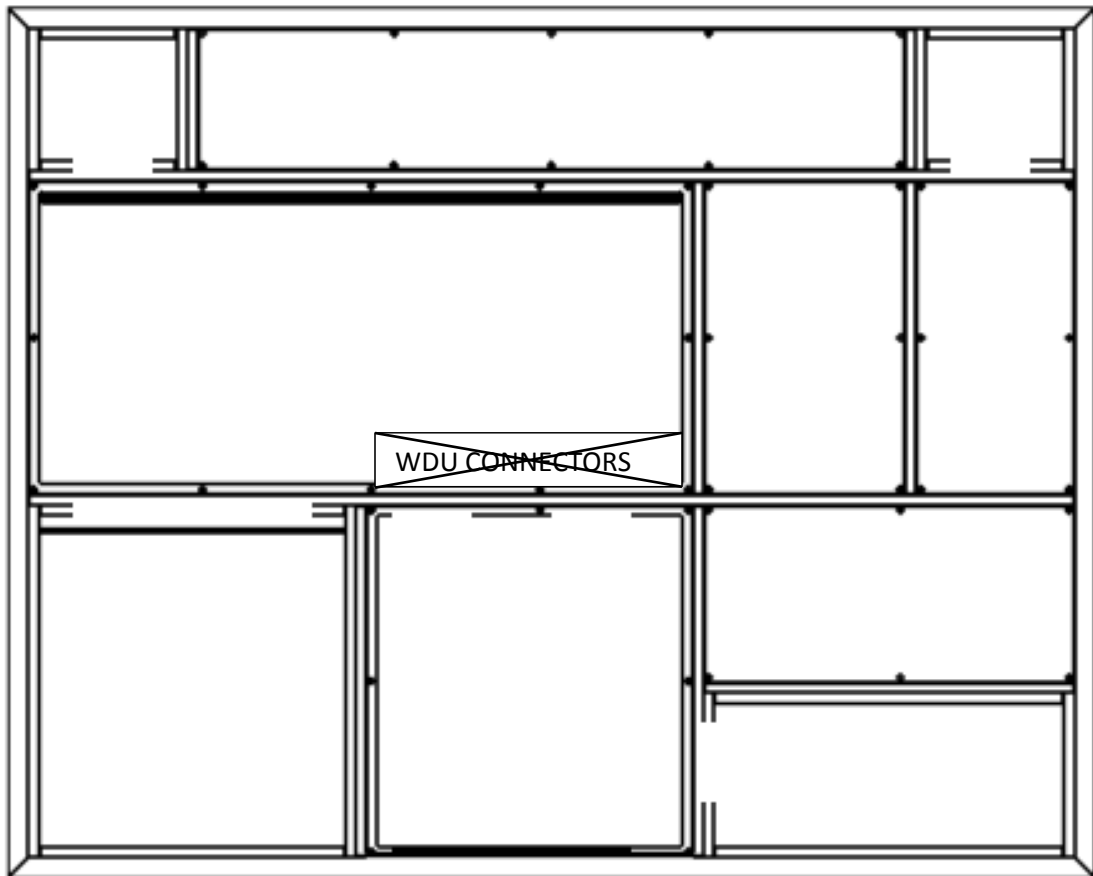
SECTION 13: INSTALLATION of SERVICES



All installations shall be performed by competent persons.

13.1. Electrical Installation

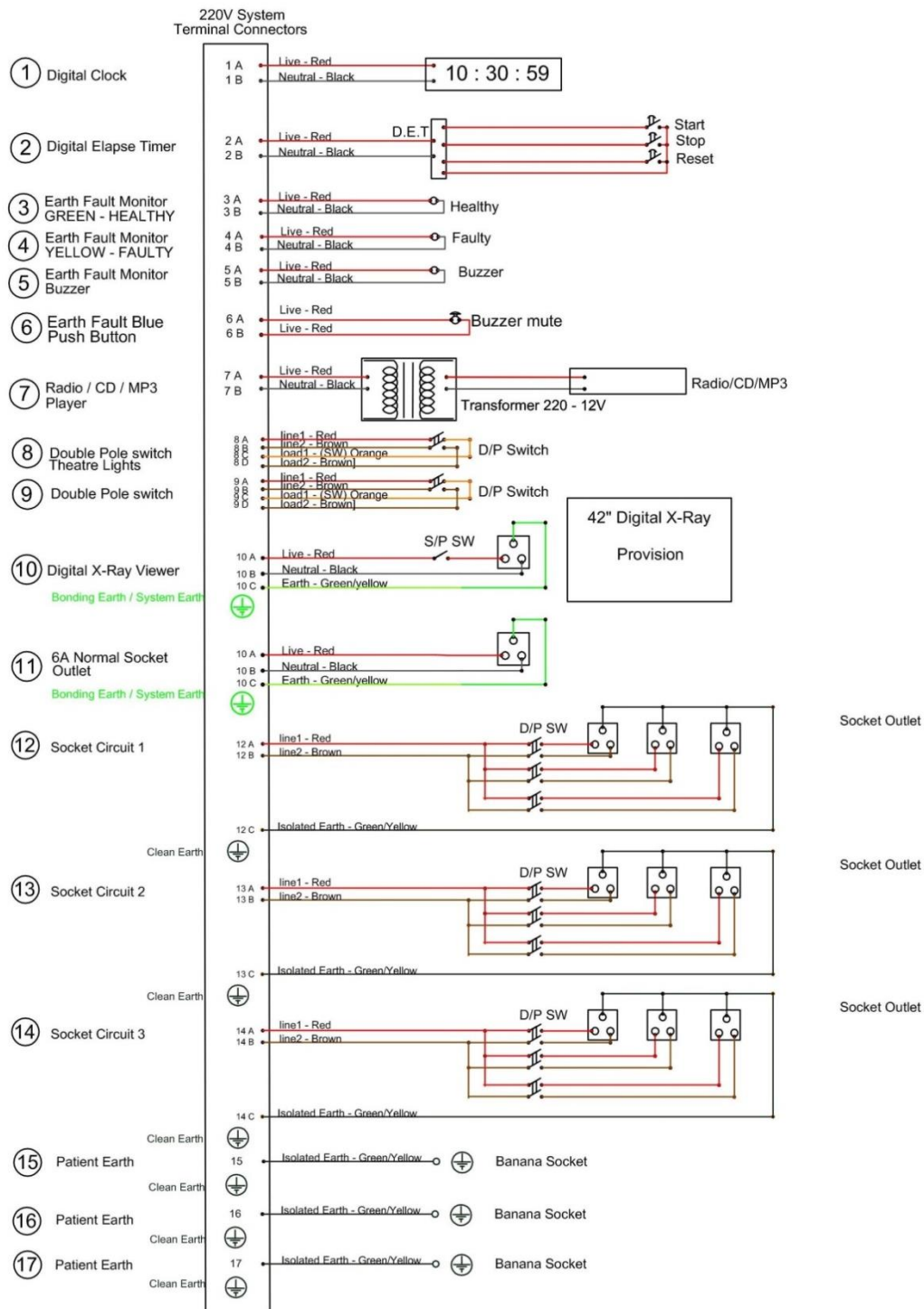
13.1.1 Electrical connections are made directly to the WDU connectors as illustrated below.



Example for illustration purposes only

SECTION 13: INSTALLATION of SERVICES

13.1.2 Refer to the wiring legend as per example below. The wiring legend is located on the back of the panel as indicated in #13.1.



Example for illustration purposes only

SECTION 13: INSTALLATION of SERVICES

13.2 Gas Installation



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

Cross-connection of medical gas pipelines could prove fatal.

13.2.1 Where specified the equipment is fitted with medical grade copper pipe conforming to BS EN 1412.

16.1.1 Recommended copper to copper onsite 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.

13.2.2 Ensure that the gas pipeline system is been bonded to the earth system.

13.2.3 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's Service Department (Refer to cover page for contact details).

NOTES

Lined area for notes.