



ADVANCING HEALTHCARE TECHNOLOGY

## Bedhead Service Systems



*Instructions for Use*

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# 1. Instructions for Use

## 1.1. Introduction

The Hutz Medical range of Bedhead Service Systems includes a number of variants for different applications. The products comprise of an extruded aluminium section ("trunking") which provides medical gas, vacuum and anaesthetic gas scavenging services, as well as lighting and electrical services, depending on client specifications.

The product may be fitted with a medical equipment rail and/or pole to accommodate the carrying of medical accessories such as flow meters, vacuum regulators and the like. As indicated on the medical rail, the maximum payload shall not be exceeded.

For each variant the basic layout and cross-sectional dimensions are the same, but the unit length as well as the amount and types of services may vary, within defined norms, according to client requirements.

The bedhead units are designed to operate continuously.

Carefully read these Instructions for Use to ensure that the product is used in accordance with the intended use and to ensure the user's safety. Keep these Instructions for Use for future reference pertaining to safety instructions and important information.

Bedhead Service Systems may be equipped with other manufacturer's equipment, therefore it is advised to refer to their operating instructions for that equipment.

## 1.2. Explanation of Symbols



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

### 1.3. General Safety Instruction

#### ❖ Intended Use

The Bedhead Service Supply unit is fixed behind, to the side, or above the patient bed or trolley position, and is intended to supply one or more of the following services:

- Electrical power up to 240 volts;
- Medical gases such as oxygen, nitrous oxide, carbon dioxide;
- Low pressure medical air for patient ventilation;
- High pressure medical air for driving other medical devices;
- Vacuum and / or anaesthetic gas scavenging services;
- Lighting for illumination;
- Communication services.

#### ❖ Operating Conditions

Ambient Temperature: 0° C to 40° C  
Relative Humidity: 10 to 95%  
Atmospheric Pressure: 70 to 110 kPa

#### ❖ Transport and Storage

Operating conditions only apply once transportation and storage is complete. Do not subject the product to severe vibration. Store only in a closed room or undercover.

#### ❖ Connection of Services



Connection of medical gas, vacuum and anaesthetic gas scavenging services shall be tested in accordance with BS EN ISO 7396-1 and BS EN ISO 7396-2.

Connections of electrical services shall be carried out by suitably qualified personnel.

#### ❖ Operating



The maximum payload capacity of the medical equipment rail and pole shall not be exceeded. Maximum payload capacity is indicated on each individual medical equipment rail and pole. Exceeding the maximum payload capacity could lead to serious injury and damage to the product.

#### ❖ Disposal

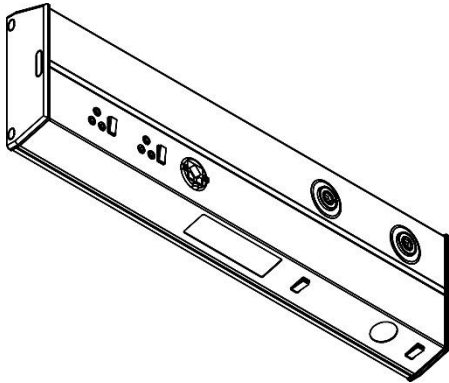


Disposal of redundant products and materials is to be done in accordance with the relevant local, regional and/or national environmental regulations. Wherever possible, the materials should be recycled. As used vacuum hoses and terminals may contain body fluids, they should be treated as hazardous medical waste and disposed of accordingly.

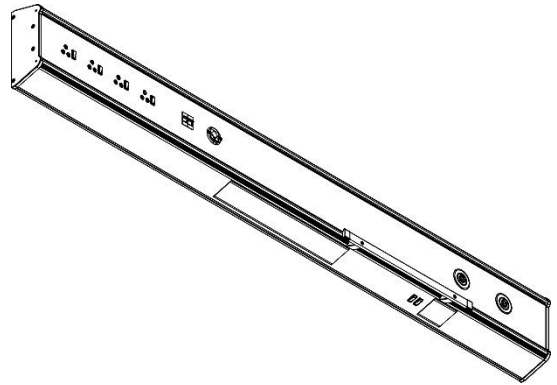
## 2. Types

Bedhead Service Systems are manufactured as either horizontal or vertical orientations from aluminium profiles. The end of the unit is closed off using moulded end caps. Units are manufactured with channels to house electrical, medical gas and vacuum, anaesthetic gas scavenging and lighting services. Provision for telephone and data services may also be provided. Acrylic materials are used for lighting diffusers.

### 2.1. Horizontal Mounting Type

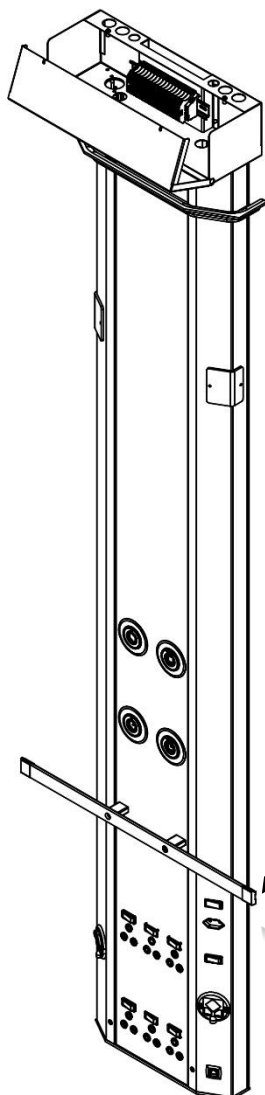


Example of an HU10



Example of an HU23

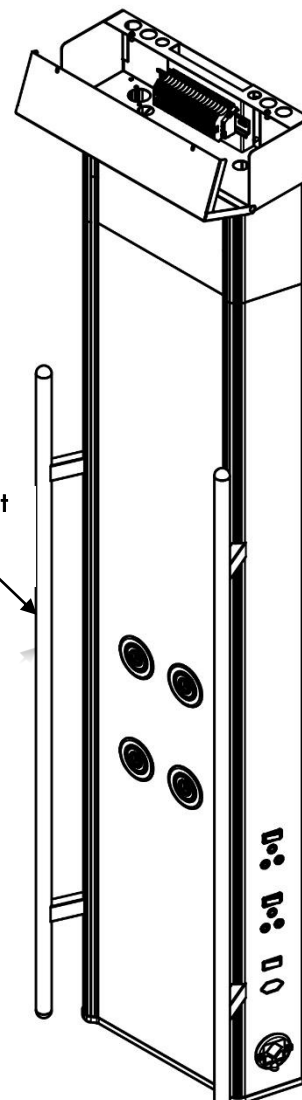
### 3. Vertical Mounting Type



Example of an HU21

Medical Equipment Pole

Medical Equipment Rail



Example of an HU20

## Operating the Bedhead Service System

### 3.1. Power Supply



For units installed with socket switches, ensure electrical power is turned off before inserting and removing mains plug to avoid arcing. Do not pull the mains plug out by pulling on the lead but pull only on the mains plug.



Do not insert foreign objects into the socket outlet.

### 3.2. Gas Supply

Gas terminal units and connectors are manufactured with dimensional characteristics which prevent connection with incorrect services.



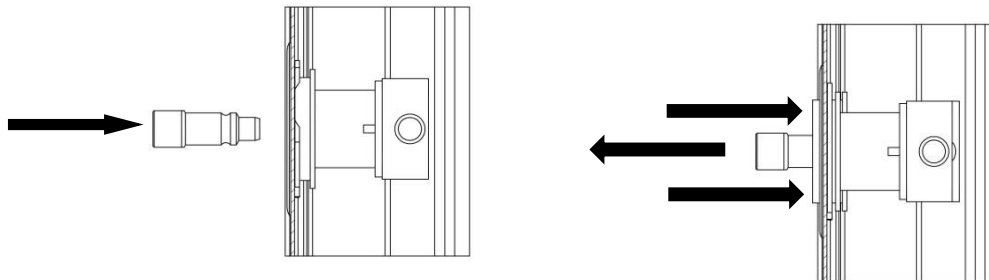
Do not force the connector into the incorrect gas terminal unit. If the specific connector cannot be inserted into the required terminal unit, report it immediately to the medical facility's Maintenance Department. Never use oil or grease on or near the connector and/or terminal unit to avoid explosion. Report any gas leaks or damage to connectors or terminal units to the medical facility's Maintenance Department.



Provision of the incorrect gas to the patient could prove fatal.

**Insert connector into  
gas terminal unit**

**To pull out connector, depress gas  
terminal unit outer housing before  
pulling out connector**



## 4. Loading

The Bedhead Service System may be fitted with a medical equipment rail and/or poles for additional accessories.



Do not exceed the maximum payload as indicated on the labels of the medical equipment rail and/or poles. Failure to adhere to these requirements may result in injury to patients, user or damage to the unit.

## 5. Cleaning

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



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

## 6. Servicing



Only parts approved by HUTZ Medical for servicing, repairs and alterations can ensure the safety, reliability and performance of the units.

Servicing of units should only be carried out by HUTZ Medical or an authorized Service Agent.



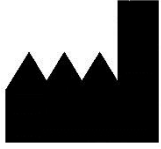
All repairs conducted on the gas system must be re-tested in accordance with BS EN ISO 7396-1 for medical gas and vacuum services and BS EN ISO 7396-2 for anaesthetic gas scavenging services. Failure to comply with this requirement may prove fatal.



***HUTZ Medical shall not be held liable for any damages or injuries caused as a result of inspection, repairs and/or alterations carried out by unauthorised service personnel or service agents.***

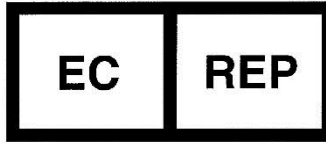
## 7. Technical Data

<b>Electrical Data</b>	
Mains Voltage	110/240V
Mains Frequency	50 / 60 Hz
Nominal Current	Max 16A per Circuit
<b>Mechanical Data (Maximum Payload)</b>	
Medical Rails ≤ 1000mm	8kg/m
Medical Rails ≥ 1000mm	12kg/m
Equipment Poles	20Kg
<b>Technical Data For Gases</b>	
Compressed Gases	4 bar
Vacuum	-1 bar
Gas Types: oxygen, nitrous oxide, entonox, medical air, vacuum	
<b>Electrical Protection Class</b>	
Class I	
Applied part type - B	
<b>Basic Regulation</b>	
BS EN ISO 11197	
EN 60601-1	
EN 60601-1-2	
BS EN ISO 7396-1, BS EN ISO 7396-2	



HUTZ MEDICAL  
26 Henry Ford Road  
Neave Industrial  
Port Elizabeth  
South Africa  
6020

Sales: [enquiries@hutz.co.za](mailto:enquiries@hutz.co.za)  
Service: [service@hutz.co.za](mailto:service@hutz.co.za)  
Tel: +27 41 451 0964  
Fax: +27 41 451 0977  
Web: [www.hutz.co.za](http://www.hutz.co.za)



EMERGO EUROPE  
Molenstraat 15  
The Hague, 2513 BH  
The Netherlands  
+31 70 345 8570