

## Medizone™ Area Valve Service Module

HTM02-01 / HTM2022 / ISO7396-1

### SPECIFICATION

#### **Medizone Area Service Module**

The Medizone Area Service Module may contain a local area medical gas alarm and a maximum of six area valve service units. The Medizone shall be pre-piped, wired and tested ready for installation into a finished building. Medical gas/vacuum services shall be fixed copper, piped to and from their respective area valve service units, and shall normally terminate in 22mm copper stub pipes for pressure gas installations and 22 or 28mm stub pipes for oxygen and vacuum installations. Pipes shall normally be connected at ceiling level. The position of copper stub pipes shall be handed as specified by the customer. Area valve service units shall be BeaconMedaes ZSU<sup>2</sup> type and shall conform to BS EN 739:1998, HTM 02-01 and BS EN 737-3:1998. The ZSU<sup>2</sup> shall provide a zone isolation facility, for use either in an emergency or for maintenance purposes.

#### **Emergency Access**

The 2nd fix shall include a transparent plastic window incorporating the words 'Pull in Emergency and Close Valve'. In order to gain access in an emergency, a ring pull shall be fitted to the removable portion of the window. The emergency access mechanism shall be safely operable by a 5th percentile woman without the use of a tool. Glass windows shall not be used. It shall not be possible to refit or reset the means of emergency access.

#### **Door Tamper Alarm**

A door tamper alarm facility shall be available, with a reed switch initiating a system alarm indication on the local alarm panel when the emergency access window is removed. Normally only oxygen and medical air ZSU<sup>2</sup>'s controlling high acuity care areas, resuscitation bays and accident and emergency wards shall be fitted with the door tamper facility.

#### **Materials**

The second fix assembly shall be manufactured from fire retardant V0 rated ABS moulded corner pieces connecting an extruded aluminium frame in which a high pressure compact laminate fascia plate is positively retained. The fascia plate shall be available in a range of colours to match the chosen hospital décor.

All wetted parts (except seals and gaskets) shall be brass or copper. Copper pipe shall be manufactured from phosphorous de-oxidised non-arsenical copper to EN 1412:1996 grade CW024A, manufactured to metric outside diameters in accordance with EN 13348:2001R250 (half hard). Copper to copper joints shall be made using a silver-copper-phosphorous brazing alloy type CP1 or CP4 to BS 1845 using a dry, clean, oil and oxygen free nitrogen inert gas shield with no flux. Each Medizone assembly shall be factory tested for gas tightness. Rubber pipe grommets shall be provided to ensure any leaking gas does not escape from the medizone into a wall cavity. All elastomeric gas seals shall be manufactured from Viton with a Shore hardness of 75.

All visible aluminium surfaces shall be powder coated RAL9010 60% gloss by a DuPont/Akzo Nobel approved powder coating specialist, offering a minimum guaranteed service life of 25 years

#### **Gas Specific Connections**

The area valve service unit shall be fully gas specific and labelled to identify the medical gas service. The gas specific shrouds shall clearly show the gas service and use colour coding to BS EN 739. Shrouds shall be pin indexed such that the only the correct shroud can be fitted to each 1st fix. Gas specific NIST connections to BS EN 739:1998 shall be incorporated on each side of the line valve and include a permanently fitted gas identification label. Pressure gas service (not vacuum) NIST connections shall incorporate 100% self sealing valves which, held closed by gas pressure until insertion of the appropriate gas specific male NIST fitting. Additional sealing of NIST fittings shall be achieved using blank NIST nuts, with a knurled outer diameter. The blank NIST nuts shall include an internal 'O' ring groove and 'O' ring to seal on the smooth outer diameter of the female NIST. Blank NIST nuts shall be hand tightened only. Each NIST connection shall be capable of providing a free air flow rate of 300 l/min with a pressure drop of 0.4 bar from a 4 bar nominal inlet pressure.

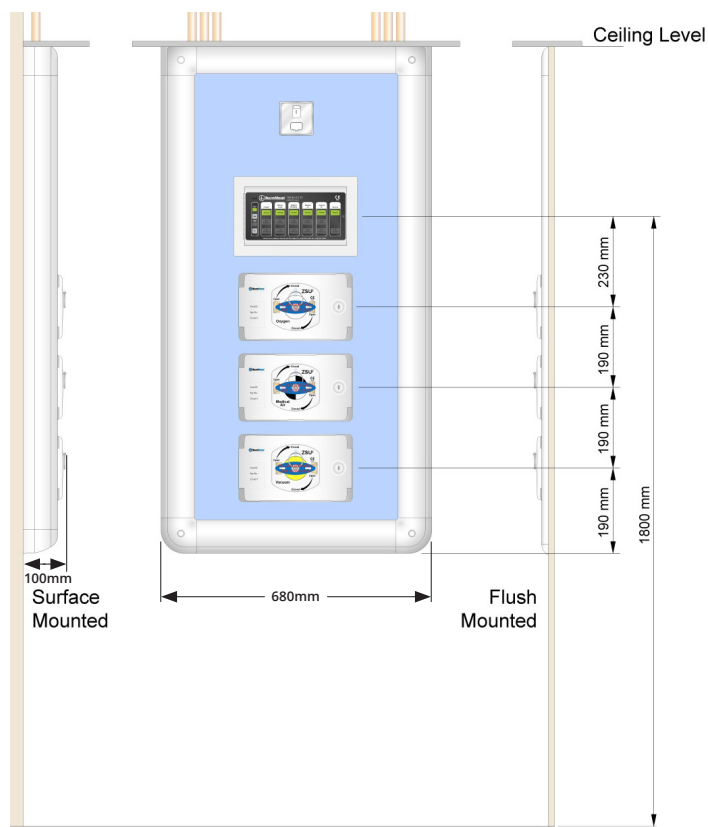
#### **Local Alarm Pressure Switches**

The area valve service unit shall normally accommodate local alarm pressure switches. Optionally, pressure switches may be fitted within a high level access panel. Pressure switch connections shall incorporate minimum leak pressure switch connection ports. Wetted parts of pressure switches shall be manufactured from inherently corrosion proof materials. Plating or sacrificial protection on mild steel is not acceptable.

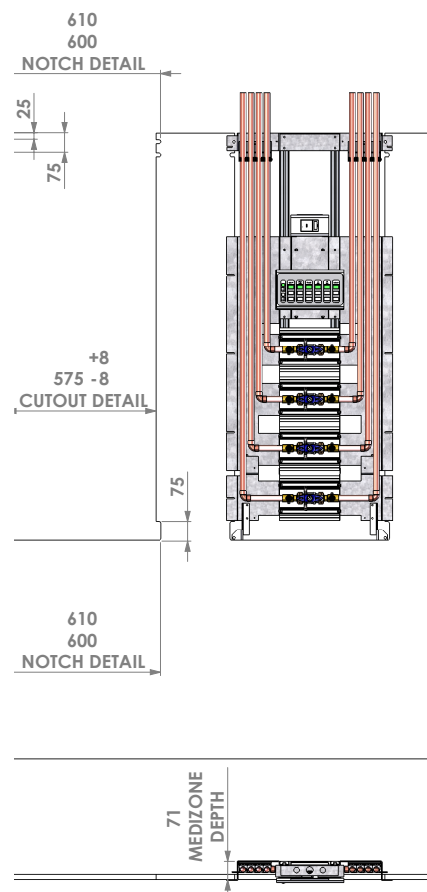
#### **CE Marking**

The standard range of BeaconMedaes Medizone Area Service Modules are 'CE' marked under the Medical Devices Directive 93/42/EEC with approval from notified body no. 0088 (Lloyd's Register Quality Assurance). Under this directive, the specified products are classified as Class IIb Medical Devices.

### Dimensions



### **Flush Mount Cut Out Details**



**Ordering**

Part No	Description	Size
MZTAI1	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	1 Gas
MZTAI2	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	2 Gas
MZTAI3	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	3 Gas
MZTAI4	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	4 Gas
MZTAI5	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	5 Gas
MZTAI6	High Dependency Medizone with Tai Alarm Notification System and pressure transducers	6 Gas

MZ272616	Medizone with Medipoint 26 alarm and pressure switches	1 Gas
MZ272626	Medizone with Medipoint 26 alarm and pressure switches	2 Gas
MZ272636	Medizone with Medipoint 26 alarm and pressure switches	3 Gas
MZ272646	Medizone with Medipoint 26 alarm and pressure switches	4 Gas
MZ272656	Medizone with Medipoint 26 alarm and pressure switches	5 Gas
MZ272666	Medizone with Medipoint 26 alarm and pressure switches	6 Gas

MZ27PS16	Medizone with pressure switches, no alarm	1 Gas
MZ27PS26	Medizone with pressure switches, no alarm	2 Gas
MZ27PS36	Medizone with pressure switches, no alarm	3 Gas
MZ27PS46	Medizone with pressure switches, no alarm	4 Gas
MZ27PS56	Medizone with pressure switches, no alarm	5 Gas
MZ27PS66	Medizone with pressure switches, no alarm	6 Gas

MZ2716	Medizone without pressure switches, no alarm	1 Gas
MZ2726	Medizone without pressure switches, no alarm	2 Gas
MZ2736	Medizone without pressure switches, no alarm	3 Gas
MZ2746	Medizone without pressure switches, no alarm	4 Gas
MZ2756	Medizone without pressure switches, no alarm	5 Gas
MZ2766	Medizone without pressure switches, no alarm	6 Gas

MZ27125	Extra for adding a Medipoint 125 Central Alarm to a Medizone without any alarm panel	
MZ27F-C	Extra for floor to ceiling Medizone	
MZ22-28	Extra for installing 28mm vacuum ZSU2	
MZSAXFI	Extra for installing free issue 3rd party Alarm	
MZ27AI	Extra for a double pole fused switch for isolation of alarm	
MZ27ACCESS	Extra for installing pressure switches in a high level access panel	



In an effort to continuously improve our products, the right is reserved to change the specification of the items described herein at any time. Please contact us for further information and up to date specifications.

28/02/17

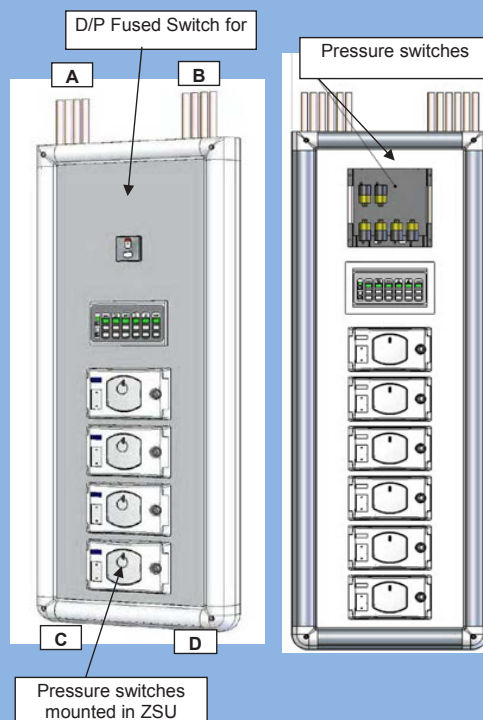
Page 4 of 4

Please fill out the following sheet on order placement (note an excel version is available - please contact customer services)

# Medizone Order Sheet

[illegible]

Date Added	23/02/2017
Required Date	
Medizone Qty.	
Ceiling Height	
Medizone Length	0



With regard to Medizone Length the spreadsheet calculates for the most economic solution taking into consideration the requirements of both HTM2022 and HTM02-01. Any specified deviations from this calculated length are the responsibility of the Customer.

For 6 gas Medizones with Alarm or Pressure Switches fitted in Access Panel, the lowest ZSU will not meet the height requirements of HTM02-01. Height to centre line will be 600mm Approx. instead

Only select options which are included in the original sales quotation - the invoice price will match the medizone plus any additional options.

CE  
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