



MODULAR  
SERVICES COMPANY

# SPECIFICATIONS

## SILHOUETTE® III



### PRODUCT DESCRIPTION

The Silhouette® III is a UL-Listed, horizontal medical headwall designed to install within interior wall partitions. The recessed service assembly is built with one or multiple horizontal component tiers to conveniently locate medical gas, electrical, and communication services. Horizontal equipment management channels are an integral part of the assembly. Channel accessories are available in a sufficient variety to meet the needs of typical hospital applications.

### GENERAL CONSTRUCTION

#### Chassis

The back box housing of the unit is constructed of 16-gauge steel. Metal barriers are provided inside the housing to segregate services, as required. Back box mounting flanges are constructed of heavy gauge 6063-T5 alloy, extruded aluminum profiles. Assembly ends are constructed of 1/2" thick aluminum powder coated in either "Surf" or "Platinum Grey".

#### Device Mounting Panels

Mounting panels for devices are constructed of 16-gauge galvanized steel bonded to a UL-listed decorative covering. Each panel contains a series of openings for attachment of electrical, medical gas, and/or communication devices. Devices are attached directly to the mounting panels for ease of removal and service. Electrical device plates are aluminum powder coated in either "Surf" or "Platinum Grey".

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## **Equipment Management Channels**

Horizontal equipment management channels are constructed of extra-heavy gauge 6063-T5 alloy extruded aluminum and are powder coated in either "Surf" or "Platinum Grey". Channels are capable of accepting horizontal channel brackets throughout their entire length.

## **MEDICAL GAS**

### **General**

Medical gas/vacuum piping is pre-manifolded with service connection points terminating as indicated on the project drawings. Medical gas/vacuum pipeline is installed and tested by certified medical gas installers in accordance with NFPA 99.

### **Outlets**

Medical gas outlets are Modular Services standard brand outlets. In order to accommodate the facility's current equipment, the adapter style of the outlets is selected by the customer.

### **Piping**

Medical gas/vacuum piping is constructed of Type "L" medical copper tubing. Prior to manifolding, all tubing and fittings are cleaned, rinsed and dried in accordance with NFPA 99. All joints are made with a silver brazing alloy with a melting point of at least 1000°F. Tubing ends are securely capped and properly identified. To prevent galvanic corrosion, all copper tubing is protected from contact with dissimilar metals.

## **ELECTRICAL**

### **General**

Units are completely pre-wired with service connection points terminating as indicated on the project drawings. All wiring complies with NFPA 70 (National Electric Code) as a minimum standard. The service assembly is UL listed as a prefabricated medical headwall assembly.

### **Line Voltage Wiring**

Line voltage carrying conductors are type THHN stranded copper for normal and emergency power circuits. A copper ground bus is provided in the service connection compartment that will accept #6 to #14 AWG grounding conductors. All power receptacles have a copper ground conductor attached to the ground screw of the receptacle and the ground wire tie point to ensure that the structure is not used as the sole ground path between the power receptacles and the ground bus. Additional buses within the unit are provided as necessary for ground wire tie points.

### **Low-Voltage Provisions**

Provisions for low-voltage communication devices consist of segregated compartments.

Communications devices and wiring are to be supplied and installed by others. These devices include nurse call, television, code blue, telephone, monitor jacks, etc.

### **Devices**

Hospital-grade power receptacles, ground jacks, switches etc. are installed as indicated on the project drawings. All electrical components are UL listed.

## MODEL-SPECIFIC FEATURES

The Silhouette III headwall is designed to be installed using multiple methods, dependent upon customer requirements and unit dimensions. The headwalls can be built pre-piped and wired to above the accessible ceiling, or pre-piped and wired with terminations at the unit. In addition, some units may be installed after drywall. The following sections describe the different models.

### **Pre-Piped and Wired Above the Accessible Ceiling**

Silhouette III units (up to 48" horizontal lengths) can be built pre-piped and wired to above the accessible ceiling. Single termination points are provided for each gas/vacuum service. Factory installed devices are pre-wired to electrical junction boxes located above the accessible ceiling line. The headwall assembly is installed into a framed opening in the building wall and the medical gas contractor makes service connections. The electrical contractor may connect to the building wiring before or after drywall installation.

### **Pre-Piped and Wired with Terminations at Unit (before drywall)**

The Silhouette III can be built pre-manifolded and pre-wired with service terminations located at the headwall. Single termination points are provided for each gas/vacuum service. Factory installed devices are pre-wired to segregated, service connection compartments. The headwall assembly is installed into a framed opening in the wall. Medical gas and electrical contractors route services to the unit and make service connections. Drywall is installed after service connections and any required verifications.

### **Pre-Piped and Wired with Terminations at Unit (after drywall)**

The Silhouette III can be built pre-manifolded and pre-wired with service terminations located at the headwall and installed after drywall. A rough-in frame is provided by Modular prior to delivery of the headwall. Framing contractors install the rough-in components while framing the building walls, creating a window for the headwall assembly. Medical gas and electrical contractors route service provisions to the supplied openings in the rough-in frame. At this point drywall may be installed and finished. The headwall is installed and service connections are made at the unit.



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