



MODULAR  
SERVICES COMPANY

# SPECIFICATIONS

## SURFACE-MOUNT PROFILE™



### PRODUCT DESCRIPTION

The Surface-Mount Profile™ unit is a UL-listed, vertically oriented modular service assembly designed to install onto the face of interior wall surfaces. This unit uses vertical component chases containing medical gas, electrical and communications connections to conveniently locate services, as required. Overall product dimensions are 10.9" in width (12.3" on four-gas units). Each Surface-Mount Profile unit is pre-wired and pre-piped with service connections terminating within junction boxes at the top of the unit above the ceiling line. Junction boxes are accessible above the ceiling.

### GENERAL CONSTRUCTION

#### Chassis

Backbox mounting flanges are constructed of .094" thickness 6063-T5 alloy, continuous extruded aluminum. The frame is constructed of heavy-gauge anodized aluminum profiles with integral vertical accessory tracks facing the front of the unit on each side. Side frame and vertical tracks have a clear anodized finish. Device panels have a powder coated finish to match Formica #923 "Surf".

The backbox housing of the unit is constructed of 16-gauge steel. Metal barriers are provided inside the housing to segregate services, as required.

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### **Medical Gas Outlet Compartments**

Each medical gas cluster (or gas pod) is capable of housing three or four medical gas outlets at the same horizontal level, and incorporates a galvanized steel bracket that is formed at an angle to provide sufficient spacing for three or four medical gas outlets. This design permits the simultaneous use of flowmeters, regulators, humidifier bottles, etc. Medical gas outlets are pre-attached to this bracket and trimmed with a 1/8" thickness formed Kydex® plastic cover. The color of the plastic cover matches Formica #923 "Surf".

### **Electrical Device Mounting Panels**

Mounting panels for electrical devices are constructed of 0.080" aluminum and have a powder coated finish that matches Formica #923 "Surf". Each panel contains a series of openings for attachment of electrical backboxes, devices and coverplates. Each panel mounts directly to the chassis of the unit and device coverplates are attached directly to the face for ease of removal and servicing of devices.

### **Vertical Equipment Mounting Tracks**

Vertical equipment mounting tracks are constructed of 6063-T5 alloy, continuous section extruded aluminum, and are capable of accepting adapters throughout their entire length. Vertical tracks are clear anodized aluminum.

### **Detachable Accessories**

Detachable accessories are available in a sufficient variety to meet the needs of typical hospital applications. Accessories include a vertical track adapter which is designed as a transition between many of these accessories. Vertical track adapters are designed to allow attachment into the track at any point without the need for insertion slots. Accessories are to be as called for in the project drawings.

## **MEDICAL GAS OUTLETS**

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

Medical gas outlets are pre-manifolded with 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 WIRING AND EQUIPMENT**

### **Wiring**

Units are completely pre-wired with all service connections terminating in barriered compartments. Line voltage carrying conductors are type THHN stranded copper for normal and emergency power circuits. All wiring complies with NFPA 70 as minimum standards. All electrical components are UL listed, and the unit is UL listed as a prefabricated assembly.

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 #10 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.

### **Wiring Line Voltage**

The Profile unit is completely pre-wired with service connections terminating above the accessible ceiling line, or as otherwise indicated on the project drawings. All wiring is to be in accordance with UL requirements.

### **Low-Voltage Provisions**

Provisions for low-voltage communication devices consist of backboxes or barriered compartments. Communications devices and wiring are to be supplied and installed by others. These devices include nurse call, television outlets, code blue, telephone outlets, monitor jacks, etc.

### **Devices**

Hospital-grade power receptacles, ground jacks, switches etc. are to be installed as indicated on the project drawings.

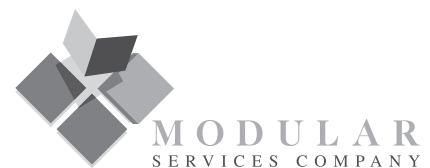
## **INSTALLATION**

Installation of the product includes receiving, storage, erection, overhead bracing, clean-up, touch-up, carton disposal, etc. All necessary installation materials are to be supplied by the contractor to include such items as tools, fasteners, caulking and electric lamps not supplied by the manufacturer.

The electrical contractor is responsible for all electrical hook-up at service connection locations, as well as interconnect wiring on multi-section units. After the installation is complete, the electrical contractor is to test equipment function, including electrical receptacles and grounding, in accordance with NFPA requirements.

The medical gas contractor is responsible for piping and connection of all medical gas services, as well as connection of piping between sections on multi-section units. The medical gas contractor is also responsible for purging, pressure testing, gas identification and system certification in accordance with NFPA 99.

Accessory items are to be installed in accordance with the manufacturer's instructions and under the direction of the hospital.



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