



MODULAR  
SERVICES COMPANY

# SPECIFICATIONS

## PROFILE®



## GENERAL CONSTRUCTION

The Profile® unit is a vertically oriented modular service assembly designed to install within interior wall partitions. This unit uses vertical component chases containing medical gas, electrical and communications connections to conveniently locate services, as required. Overall exposed product dimensions (not including interior wall studs and related service feeds) are 12.5" in width on a three medical gas cluster unit, and 13.9" in width on a four medical gas cluster unit, with a maximum height of 86". Each 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 following drywall installation. Profile® units are UL listed.

### Chassis

Backbox mounting flanges are constructed of .094" thickness 6063-T5 alloy, continuous extruded aluminum. Each mounting flange incorporates a single vertical accessory track facing the front of the unit as part of the finish trim assembly. Peripheral framing members are rigidly secured at the top and bottom with screw-attached, 1/2" thick end plates. All exposed extruded aluminum sections have a powder coated finish in either "Surf" or "Platinum Grey".

The backbox housing of the unit is constructed of 16-gauge steel. Metal barriers are provided inside the housing to segregate services, as required. The housing is attached to 16-gauge metal studs (90" overall length) for installation directly into the building wall. Additional brackets are provided on top of the metal studs for attachment of junction

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boxes and for use as piping supports when the unit is pre-wired and pre-piped.

### **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 is either "Surf" or "Platinum Grey".

### **Painted Electrical Device Mounting Panels**

Mounting panels for electrical devices are constructed of 0.080" aluminum and have a powder coated finish in either "Surf" or "Platinum Grey". 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.

### **Laminated Electrical Device Mounting Panels**

Mounting panels for electrical devices are constructed of 16-gauge galvanized steel bonded to UL-listed decorative high-pressure laminate. 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 from 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 have a powder coated finish in either "Surf" or "Platinum Grey".

## **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 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.

## MODEL-SPECIFIC FEATURES

### Double-Sided Units

Double-sided Profile® units are designed to provide a convenient and cost-effective method of installing two Profile® headwalls in a single unit. This configuration provides services for two independent rooms with a shared wall. A standard double-sided unit is mounted on a single pair of 16-gauge metal studs and shares common electrical junction boxes. These Profile® units are capable of mounting in a 3-5/8" stud wall with 5/8" drywall on each side of the wall, making the wall 4-7/8" total thickness. The maximum conduit size for double-sided units is 3/4". Each side of a standard double-sided unit has its own independent set of medical gas connections. Double-sided units can house up to four gases on each side and are available in standard or extended-height models.

**Sound Transmission Class (STC)** — Single- and double-sided Profile® units, including those placed in a 3-5/8" stud wall, are designed to minimize sound transmission. These units lose only one STC point when compared to a wall with no headwall installed.

### Medical Gas Units

These units house two medical gas pods at two separate vertical locations; one at 60" AFF and the other at 42" AFF. Units are available in standard or extended-height models with a back-to-back configuration.

### Extended And Jumbo Units

These units include a taller base housing to incorporate the installation of a monitor channel and its required receptacles. The monitor channel is braced internally for support. Extended units are 86" in height. Jumbo Profile® units incorporate two medical gas pods located at two separate vertical locations, and are available in standard or extended-height models.

### Quad Pod Units

This unit consists of four medical gases located at the same vertical location within one medical gas pod. This unit is either 68.5" or 86" in height and 13.9" width. The Quad Pod Profile® is available in back-to-back units.



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