



2-GAS PROFILE™



GENERAL CONSTRUCTION

The 2-Gas 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 9.4" wide by 59.5" in height beginning at 9" above the finished floor. Each Profile unit is pre-wired with service terminations at the unit in barriered compartments. Medical gas/vacuum service terminations are within the footprint of the studs and extend 6" from the top of the chassis. 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 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. The housing is attached to 2.75" 16-gauge metal studs (80" overall length) for installation directly into the building wall. The 2-Gas Profile is designed to accept wall coverings ranging from 0.625" to 1.25" in thickness.

Medical Gas Outlet Compartments

The medical gas cluster (or gas pod) is capable of housing two medical gas outlets at the same horizontal level, and incorporates a galvanized steel mounting bracket that is formed at an angle to provide sufficient spacing. 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".

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 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 adaptors throughout their entire length. Vertical tracks have a powder coated finish that matches Formica #923 "Surf".

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 adaptor style of the outlets is selected by the customer.

Medical gas outlets are pre-manifolded with Type "L" medical copper tubing with service terminations located 6" above the unit chassis. 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

Units are completely pre-wired with all service connections terminating in barriered compartments. Electrical knockouts are provided on both sides of the unit housing at locations indicated on the project drawings.

Line Voltage Wiring

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.

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, switches, etc. are to be installed as indicated on the project drawings.



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