MODULAR
SERVICES COMPANY

SPECIFICATIONS

STRATUS®

Model #5830

PRODUCT DESCRIPTION

The Stratus® is a UL-listed, ceiling-mounted medical services assembly with double-articulated arms and a rotating column. The Stratus® is designed to provide flexible and convenient service for medical gas, standard and emergency power, communications, etc. The Stratus® has a maximum head load capability of 400 pounds and a 350° range of motion at each joint.

CONSTRUCTION

Service Column

The peripheral framing members of the Stratus® column are constructed of heavy-gauge continuous extruded aluminum alloy. Vertical equipment mounting tracks are constructed of heavy-gauge continuous section extruded aluminum alloy, and are capable of accepting adaptors throughout their entire length. Peripheral framing members are rigidly secured at the top and bottom with screw-attached steel. All extruded aluminum sections have a clear anodized finish.

Medical gas outlet compartments incorporate a galvanized steel bracket formed at an angle to provide sufficient spacing for two medical gas outlets per pod. Medical gas outlets are preattached to this bracket and trimmed with a heavy-gauge cover. The color of the plastic cover matches Formica #923 “Surf”.

Mounting panels for electrical devices are constructed of heavy-gauge aluminum material and have a “Surf” powder coated finish. Each panel contains a series of openings for attachment of electrical backboxes, devices and coverplates. Each panel mounts directly to the column sections of the unit and device coverplates are attached directly from the face for ease of removal and servicing of devices.

Double-Articulated Arms

The double-articulated arms are capable of rotating up to 350° at each joint. Electromagnetic brakes allow the unit to maintain position as set by the clinical staff. Release buttons are used to disengage the brakes when repositioning is required. Spatial positioning is carried out by rotational movement of the support system by means of maintenance-free precision roller bearings. The combined arm and column assembly are capable of supporting accessory loads up to 400 pounds. Finish on the arm is a “Surf” powder coated finish.

Rough-In Plate

The rough-in plate is constructed of steel and contains a series of holes for mounting the Stratus® column apparatus. This plate comes pre-welded to the optional superstructure. If the optional superstructure is not selected, this plate is to be bolted or welded directly to an owner-supplied ceiling structure, as required by the project drawings and specifications.

Service Entry Bracket

The service entry bracket is attached to the rough-in plate using four 1/4"-20 x 1" hex bolts and flange nuts (provided). This bracket provides service connections for medical gas, power converter and junction boxes for electrical components, as required by the project drawings and specifications.

Ambient LED Lighting Option

Ambient LED lighting is an optional add-on feature for the Stratus®. When this option is chosen, light sources are included on the top side of each arm and the bottom side of the service column to create dimmable, indirect ambient lighting. Light intensity levels are easily adjusted via a control panel on the column. LED specifications are listed in the table below:

LED Specifications

Input	24VDC Constant Voltage
Power Consumption/ft.	2.88W/120mA
LED Chip Type	Epistar 3528 SMD Chip
LED Chip Beam Angle	120°
LED Chips/ft.	36
Luminous Efficacy (lm/w)	62~79
Ambient Temp	-4~122°F (-20~50°C)
Operating Temp	-4~176°F (-20~80°C)
CCT	6300K
CRI	94
Lumens per Arm	669
Environment	Indoor/dry location
Safety	UL Listed 2108 Low Voltage Lighting System
Performance	LED chip data measured in accordance to IES LM 80-08, Photometric & Colorimetry data measured in accorance to IES LM-79-08

MEDICAL GAS CONNECTIONS

Medical gas outlets are to be the brand, type and style as called for on the project drawings. Outlets are provided with approved medical gas hoses for termination at the service entry bracket above the ceiling line.

ELECTRICAL CONNECTIONS

Units are completely pre-wired within the column section, with all service connections terminating in junction boxes on the service entry bracket. Line voltage current-carrying conductors are type THHN stranded copper for normal and emergency power circuits. All wiring complies with NFPA 70 as a minimum standard, and all electrical components are UL-listed. The Stratus® unit is listed as a prefabricated assembly.

Conduit and wiring is to be routed through the arm assembly during installation. 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.

Electrical Devices

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

Low-Voltage Provisions

Provisions for low-voltage communication devices consist of backboxes or barriered compartments. Communication 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.

INSTALLATION

Installation of the product includes bolting-up to rough-in plate, installation of trim, clean-up and touch-up. Receiving of units includes the actual receiving, storage, transporting to appropriate rooms, carton disposal, etc. All necessary installation materials are to be supplied by the installing contractor to include such items as tools, fasteners and caulking not supplied by the manufacturer.

The electrical contractor is responsible for all electrical piping, wiring and hook-up of electrical devices. 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 which terminate at the service entry bracket, located above the finished ceiling level. 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.

Service Module Options

- 9"x 9" service module
- 5-sided service module
- Tri-column service module
- Integrated Pump Star® lift within the service module
- Ambient LED Lighting

Product-Specific Accessories

- Superstructure
- Seamless ceiling tile trim

PATENTS

Modular Services Company Critical Care Columns are covered by one or more of the following patent numbers: 7,770,860 and 9,010,709. Other patents pending.

Modular Services reserves the right to make changes in design and material without formal notice and without incurring obligation. Verify specifications prior to purchase.

MODULAR
SERVICES COMPANY
500 E. Britton Rd. • Oklahoma City, OK 73114
Tel: 800.687.0938 • Fax: 405.528.0368
www.modularservices.com
info@modularservices.com