



MODULAR
SERVICES COMPANY

CIRRUS™

Installation Manual

CIRRUS™



OVERVIEW

The Cirrus™ is a horizontal ceiling-mounted unit designed to deliver medical gases, electrical outlets and equipment management without using valuable floor space. This product functions well in combination with a headwall or column, providing additional outlets for increased functionality while organizing the work area to increase safety and efficiency.

PREPARATION

1. Upon receipt of Cirrus units and prior to unpacking, inspect shipping containers for damage. Document any damage found and notify the carrier and Modular Services Company.
2. Clear a large work area near the location where the unit is to be installed.
3. Locate the carton for the unit you wish to install. Labels at each end of the carton identify the unit type and general description of contents, as well as the room number or area of installation (if applicable).
4. Place the appropriate cartons face down on the floor.
5. Carefully open each carton. Dispose of all excess packaging material, leaving cardboard under the unit to protect the face during installation.
6. Inspect units for defects in materials or workmanship prior to installation. It is the responsibility of the customer to report any damage or deficiencies to Modular Services immediately upon discovery.
7. Review the final approved shop drawings and the submittal booklet, which will provide you with technical details specific to your installation, such as:
 - Wiring diagrams
 - Equipment types and quantities
 - Shop drawings of each type unit
 - Room numbers and locations in building (if applicable)

INSTALLATION

1. Mount hanger brackets on 1/2" all-thread studs (Figure 1). Use washers and lock washers on both sides of hanger bracket plate. Keep bottom end of hanger bracket tube as close to the ceiling line as possible to maximize strength of assembly.

NOTE: The center hanger bracket position on unit is fixed and will therefore determine actual position of unit in room.

Ensure that all hanger brackets are plumb and square (co-linear) and temporarily tighten all nuts prior to centerline measurements.

2. Measure centerline distance between hanger brackets accurately (Figure 2).

Figure 1.

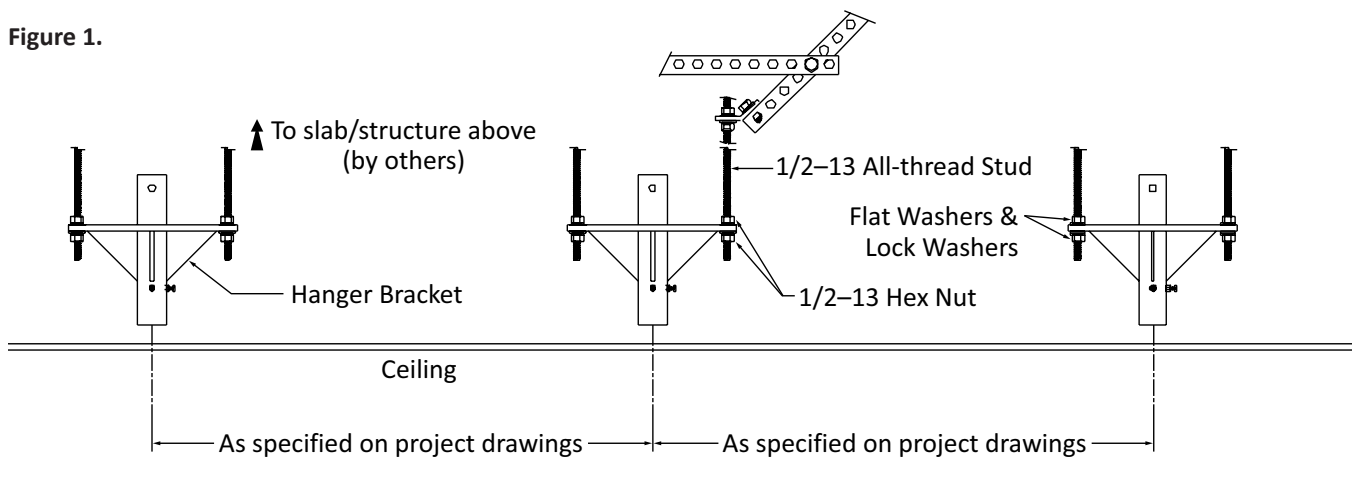


Figure 2.

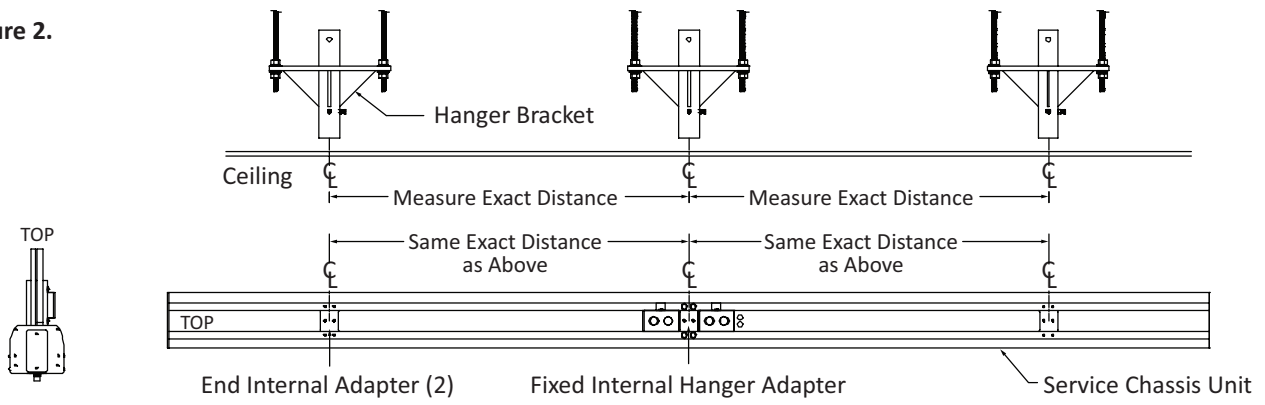


Figure 3.

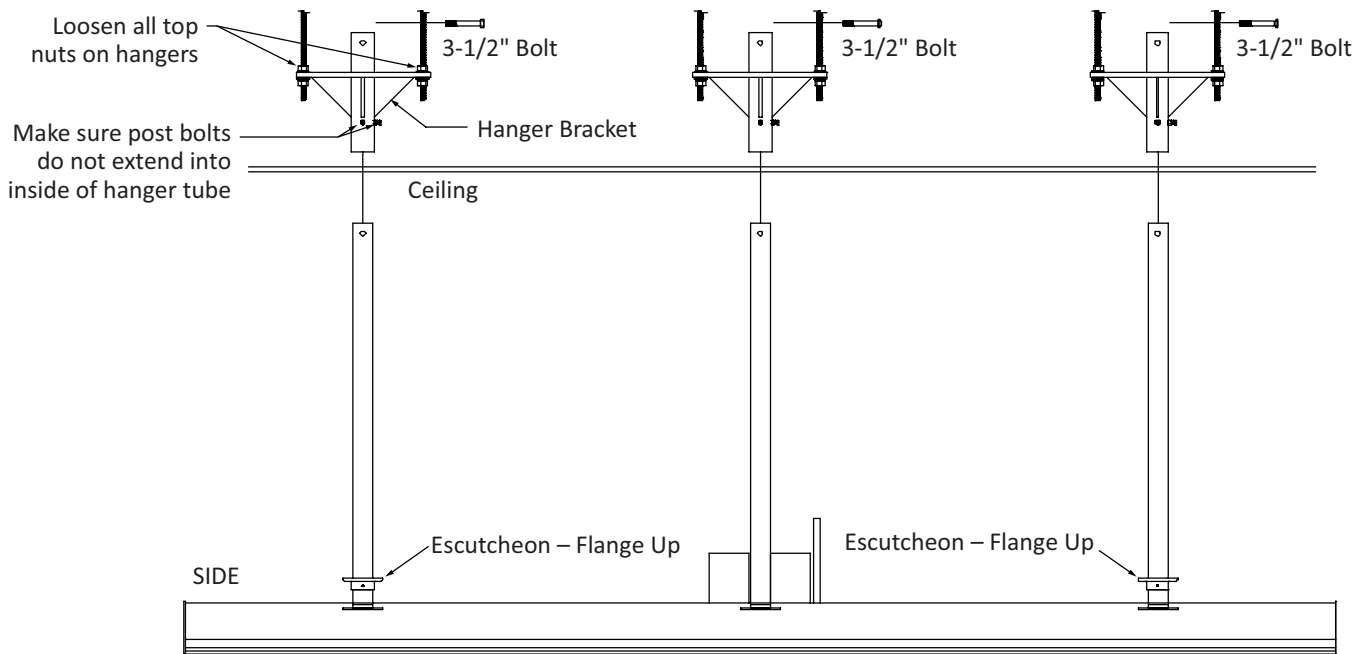


Figure 4.

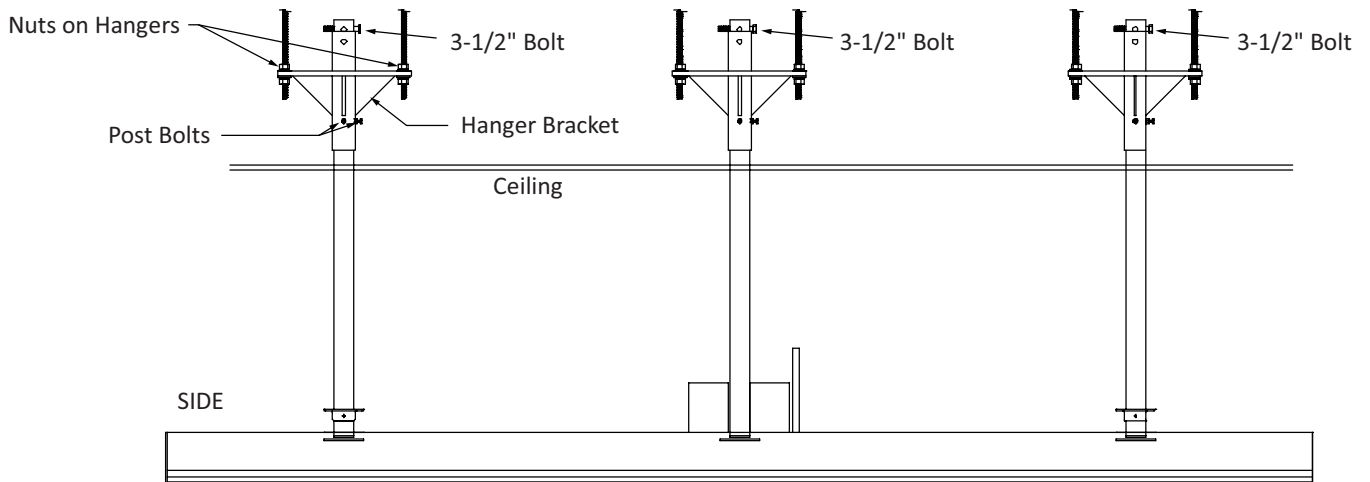
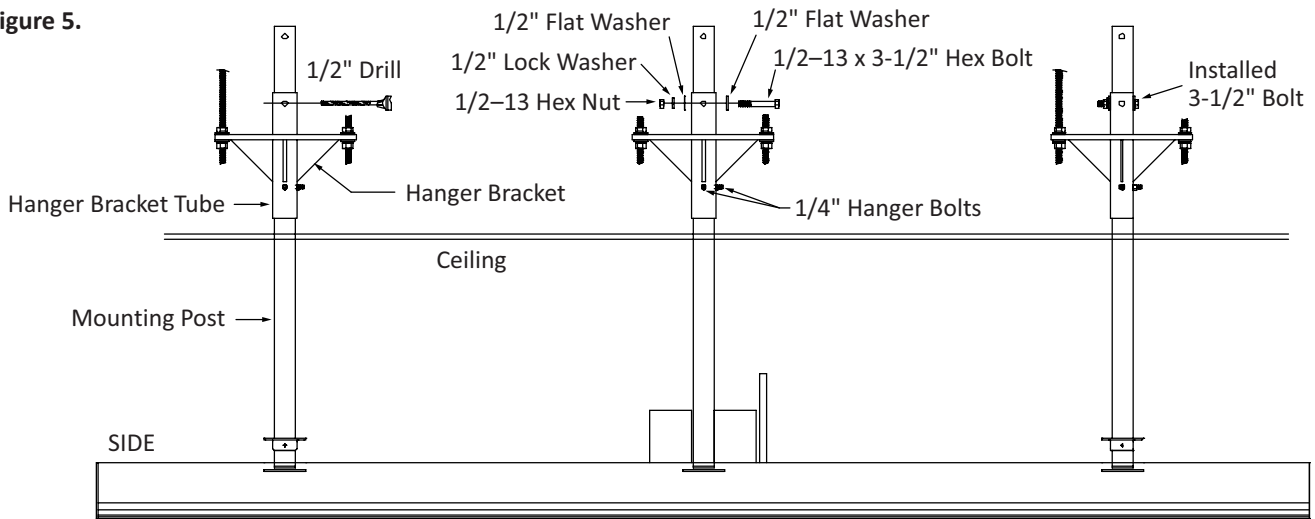


Figure 5.



3. Loosen four nuts on top of each hanger bracket to ease assembly (Figure 3). Have three 1/2-13 x 3-1/2" hex bolts ready to temporarily pin assembly in mounted position. Loosen two post bolts on each hanger.
4. Raise chassis into position, aligning the three mounting posts and three hanger brackets (Figure 4). Insert post into brackets and raise until holes in top of the posts clear the top of the hanger. Insert three 1/2" bolts into holes in posts and let unit's weight rest on the bolts.
5. Adjust height of unit per specs and tighten the two 1/4-20 hex bolts on the sides of the hanger brackets to hold position. Readjust unit as required until plumb and level. Retighten 1/4" bolts. Securely tighten all 1/2" nuts on all hanger brackets. Height can also be adjusted with 1/2" nuts on hanger bracket plate.
6. After tightening 1/2" hanger nuts and 1/4" post bolts securely, drill a 1/2" hole through each mounting post and hanger bracket assembly (Figure 5). Holes are provided in the hanger bracket near the top where only the post would need to be drilled, but the 1/2" bolt can be placed in any position on the hanger bracket tube where the bolt would fully engage both the hanger bracket tube and the mounting post.
7. In each of the three holes drilled, insert a 1/2-13 x 3-1/2" hex bolt and 1/2" flat washer. Secure with a 1/2" flat washer, a 1/2" lock washer and a 1/2-13 hex nut. Tighten securely. Retighten each of the 1/4" hex bolts on the hanger bracket tube to reduce play in the mounting post.
8. **ATTENTION: The units have hoses routed to the termination points indicated on the production drawings. Please disconnect the hoses from their DISS check valves prior to brazing to avoid damage.**

Make medical gas and electrical connections to the med gas stubs and junction boxes, according to project drawings (Figure 6). When provisions only are provided for electrical devices, pull strings will be provided from their respective junction box to the device location. Junction boxes have access through both the side above the chassis and through single-gang plates on the bottom of the chassis. Run service connections straight up only.

9. Mount chase post adapter assembly to center post approximately 17.9" above the top of the chassis (Figure 7a). Position chase back plate against chase post adapter and two chase-junction box adapters. Make sure that lip on lower edge of chase back plate is inside lip of chassis. Secure back plate with three 8-32 x 3/8" screws provided.
10. Position chase cover again, making sure lip at bottom of chase cover is inside lip on chassis (Figure 7b). Secure with 8-32 x 3/8" screws provided. Chase and chase back plate should extend above ceiling line.
11. Remove one leg of chase trim ring by removing two screws on one side of trim ring (Figure 7c). Reposition both parts of trim around chase and replace screws. Position trim ring against ceiling and tighten screws for best fit. Position escutcheon against ceiling and secure with set screw on side.

Figure 6.

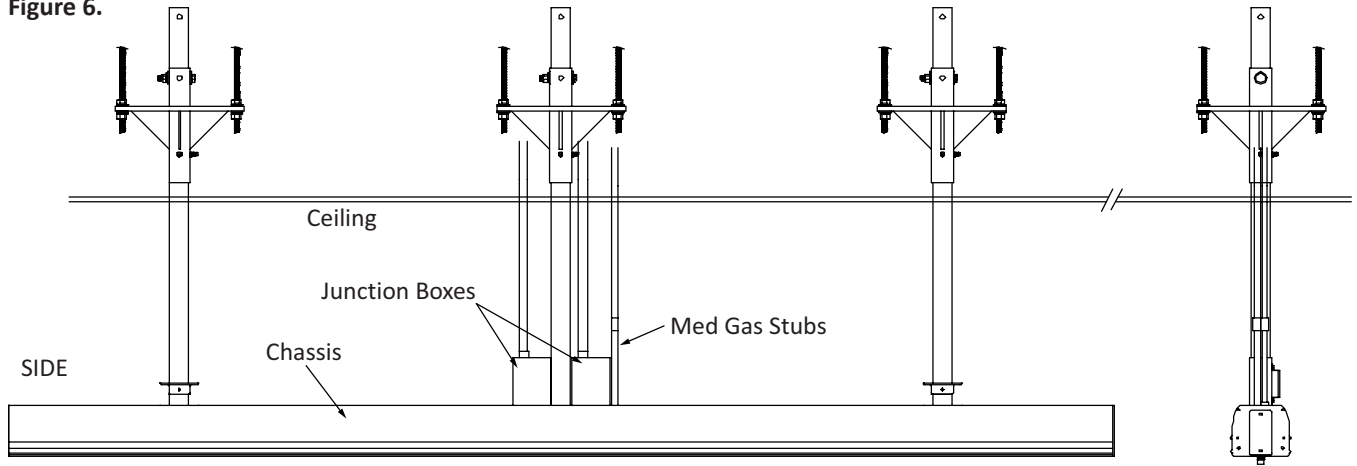
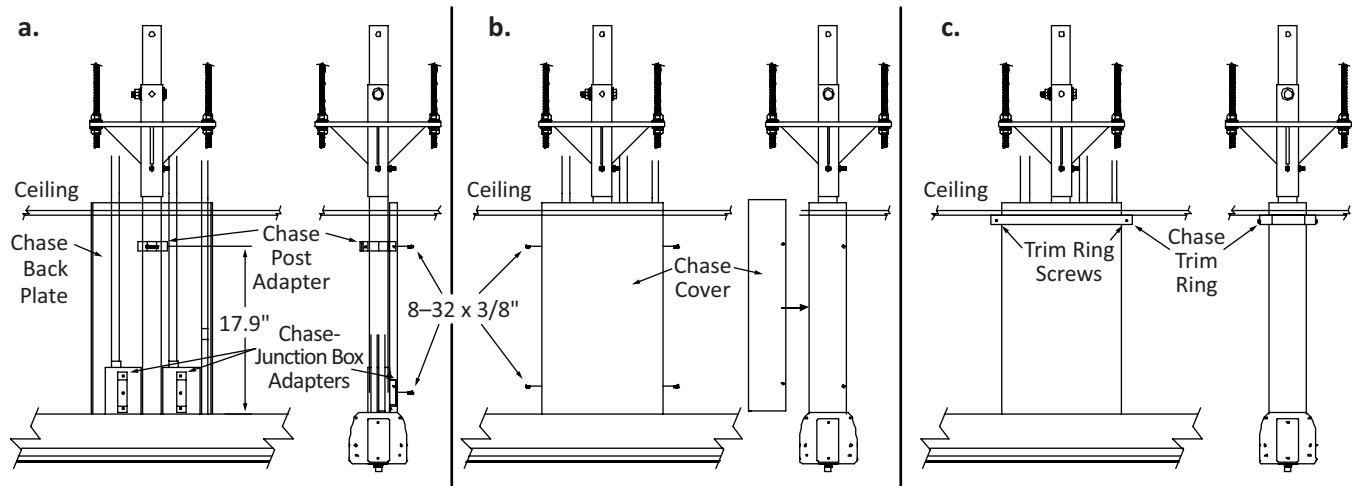


Figure 7.



INSTALLATION TERMS AND CONDITIONS

Each Modular Services unit, or unit section, shall be completely pre-wired for normal, emergency and low voltage according to the approved submittal. Communication devices and wiring shall be supplied by others. These devices include nurse call, television, code blue, telephone, monitor jacks, etc.

The customer shall be responsible for all electrical conduits, wiring hook-up of electrical services, and if applicable, interconnect wiring between sections. All hardware light fixtures shall be installed, wired and lamped by contractor. After installation is complete, the customer shall test equipment functions, as well as electrical receptacles and ground, in accordance with the National Electrical Code.

Medical gas contractor shall be responsible for piping and hook-up of all medical gas services. The medical gas contractor shall be responsible for purging, pressure testing, gas identification, and system certification in accordance with NFPA 99.

Modular Services Company shall have no responsibility or liability for delays, however caused. Owner shall hold Modular Services harmless from damages or injury related to any failure or neglect of owner, its employees, agents or licensees. Modular Services shall not be liable for consequential damages; makes no warranties, expressed or implied; and assumes no obligation other than those expressly contained herein.

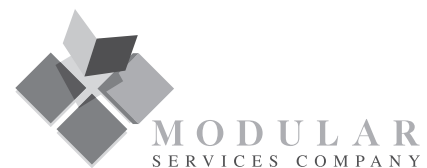
WARRANTY

Modular Services Company warrants that all equipment assemblies shall be free from defects in material and workmanship for a period of 12 months from date of the owner's acceptance to the installing contractor or the date the equipment is put into service, whichever comes first. Warranty excludes electric lamps and/or any material not furnished by Modular Services. Warranty does not cover damage due to improper installation and/or abuse.

It is the responsibility of the customer to report any noted product deficiencies to Modular Services immediately upon discovery. It is the responsibility of Modular Services to expediently resolve the discrepancy. Any modification made to the product without the written authorization from Modular Services will void this warranty.

Also, in the event product modifications or repairs are made without the written consent of Modular Services, Modular Services shall not be liable for any cost associated with the modification or repair.

There are no warranties of fitness which extend beyond the description on the face hereof.



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