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## Ceiling Column Installation Instructions

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**Small Business Enterprise**



## INSTALLATION INSTRUCTIONS CEILING SERVICE COLUMN



For all HSI MRI ceiling columns, rigid stainless steel ceiling columns, and retractable ceiling columns.



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### INTRODUCTION

The Hospital Systems, Inc. Ceiling Column is made to order for this project. Each unit consists of a rough-in Plate, ceiling column with devices that are pre-wired or pre-piped, and ceiling finish trim.

Before attempting to install, please read and understand all of the instructions. In particular please refer to the final approved submittal drawings as they will take precedence over these instructions.

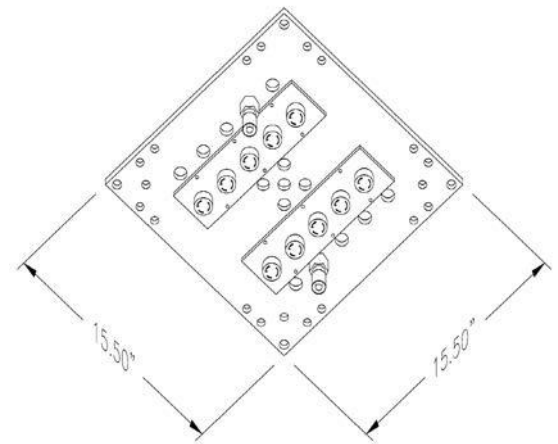
Please note, figures refer to typical installation. Each unit is build to order and exact dimensions will vary.

**Do NOT use powered screwdrivers** on devices, cover plates or cover mounting screws. Stripped holes and screw heads are NOT covered by warranty.

### MOUNTING PLATE INSTRUCTIONS

Before installing the ceiling mounting plate, coordinate with other trades to avoid conflict with other ceiling services; e.g., avoid interference with the arc of ceiling mounted surgical lights, and allow access to, and above, finished ceiling line for plumbing and electrical work.

Orient the ceiling mounting plate to position the finished column. The front side of the finished column is indicated on the bottom side of the ceiling mounting plate by the word "FRONT". Refer to shop drawing for recommended placement. The mounting plate is pre-mounted with DISS medical gas outlet and 20A twist-lock receptacle connections. Connectors for low voltage provisions to be provided by others.



Contractor to fabricate angle bars and running thread to match the existing conditions and dimensions. You may be required to have engineering approval for your mounting. The mounting method shown in these installation instructions is a suggestion, facility conditions and local guidelines may vary.



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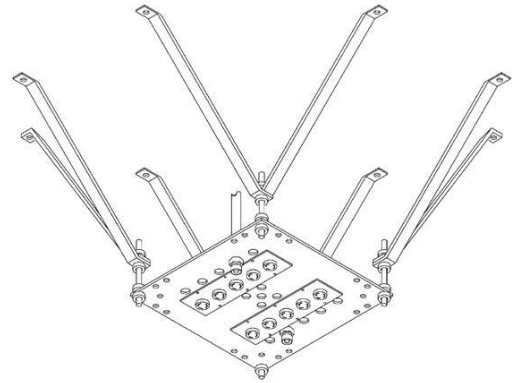
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Secure by using four (min. 6" inch dia.) extension bolts as shown. Ceiling mounting plate **must** be flush with finished ceiling and **must** be level.



Medical gas outlets are provided with a stub above the mounting plate for connection to the main system. Once connected, this becomes your terminal outlet and all NFPA testing requirements can be completed.

All electrical and data connections are made within the provided junction box mounted to the top of the plate. Electrical testing may be performed.

Data cables should be pulled through the junction box so that there is enough cable to reach the final Data box [approx 48" for fixed columns, 60" for retractable columns].

Once the Rough-in Plate is installed, connected, and tested, wrapping it in plastic to keep devices and outlets clean is recommended.

The ceiling may now be completed prior to mounting the column.



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### COLUMN INSTRUCTIONS

Prior to proceeding, confirm that the Rough-in Plate is still level in all directions.

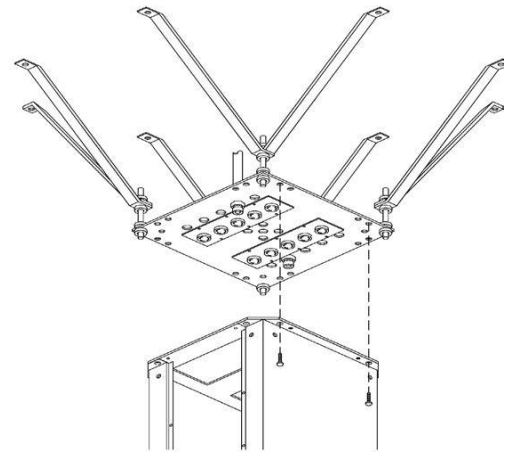
Before unpacking, check carton for any sign of damage. If damaged, this should have been noted on freight bill at the time shipment was received. If damage is discovered during unpacking - before proceeding, call freight carrier and make a concealed damage claim.

Unpack, being careful not to scratch the polished surface. The IV hooks (if included) and trim collar mounting bolts are packed on the bottom face of the column. Remove only enough protective paper to facilitate installation. Do not remove the access panel cover.

### MOUNTING THE COLUMN

Lower the square stainless steel trim collar. Match the front side of the column (side opposite access panel) with "Front" stamped on the ceiling mounting plate. The top plate of the column will match the Rough-in Plate. Orientation of the column should also match any relevant shop and contract drawings.

Raise the column and secure it to the ceiling mounting plate with the eight bolts (shipped with ceiling mounting plate). Drawing displays the column with the access panel removed, for illustrative purposes; the access panel should not be removed prior to securing the column.



**Be sure that mounting bolts are adequately tightened.**

Remove access panel located on the back of the column. Keep screws and cover plate together for later re-installation.



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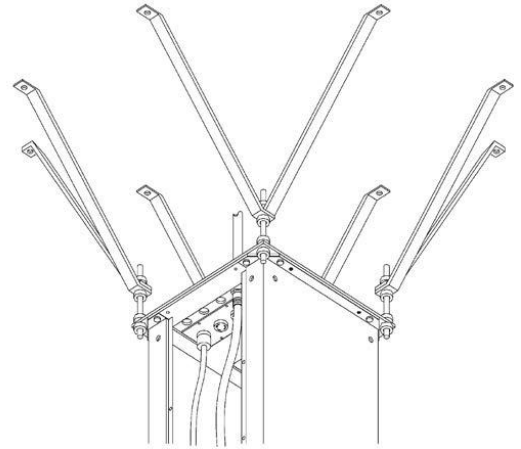
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### CONNECTING SERVICES

For fixed columns, braze each medical gas supply to the same outlet extension identified for the correct gas service. Verify that the labeled tube extension for each medical gas corresponds to the stamped service identified on the medical gas outlet mounting bracket.

For retractable columns, attach the medical gas hoses to the appropriate DISS fittings on the Rough-in Plate. Connections should be finger tight; do not use a wrench. DISS outlets will not cross-connect. Connection to the medical gas distribution system must be made in accordance with NFPA Pamphlet 56F, Chapter 5, and or job specifications.



Plug in the electrical receptacles; please observe the circuit number on both the receptacle and the plug. All electrical work should be completed in compliance with local codes and safety regulations, Including wiring of all electrical and grounding outlets. EEG/ECG outlets should be wired per monitor manufacturers recommendations.

Pressure Test the complete medical gas system as outlined In NFPA 99, and/or job specifications.

Test the electrical system.

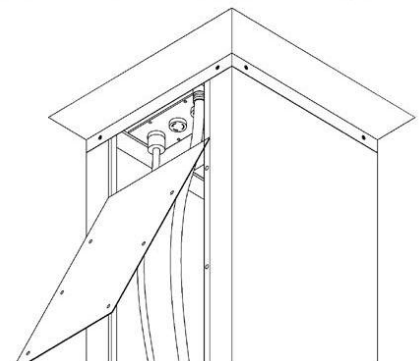
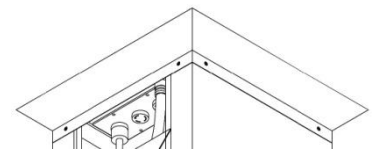
### FINAL STEPS

Raise trim collar and attach to mounting plate using the 4 bolts shipped with the column.

If included, install IV hooks, with small washer and hex nut into the captured nuts on both sides of the column.

Replace the access panel by sliding the cover up, under the trim collar. Secure the panel with the access cover screws.

Remove any remaining protective paper.





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## MAINTENANCE AND REPAIR

Columns require minimal maintenance. The shell can be cleaned with commercially available cleaners and disinfectants suitable for stainless steel (or aluminum for the MRI ceiling column). Using a soft cloth with a non-abrasive cleaner (i.e. 409 or Windex) to remove dirt and fingerprints is recommended.

It is important to maintain the Medical Gas Distribution System for peak performance. Follow recommended Medical Gas Outlet Station Maintenance Procedures as delineated by the medical gas outlet manufacturer.

