

PNEUMATIC RETRACTABLE CEILING COLUMN OPERATION, MAINTENANCE AND INSTALLATION MANUAL



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PRODUCT SPECIFICATIONS

The pneumatic retractable ceiling column shall be an Amico Alert-1 series.

The pneumatic retractable ceiling column shall be of the pneumatic operated type. The column shall consist of an upper section for rigid mounting at the ceiling level and a telescopic lower section capable of being extended to a maximum of 18 inches.

The lower section of the column is activated by an air cylinder mounted into the internal shell of the column. With the aid of a wall switch or with a head mounted switch, the column can be raised or lowered to any desired position. With the aid of an internal tracking system, the movement of the telescoping portion will glide freely up or down.

The upper and lower section shrouds are made of 16 gauge stainless steel with a # 4 satin finish and are complete with: Removable access panel, stainless steel ceiling collar and a heavy gauge steel mounting plate, equipped with hose assemblies (gas specific) within the internal shell of the column and brazed type copper fittings for all medical gas connections above the ceiling line.

All electrical and medical gas services are provided to the face of the lower section by means of flexible hoses and cables. All threaded connections comply with NFPA, CGA and DISS recommendations preventing interchanging of connections. All services are pre-assembled and factory tested. Standard dimensions are 13-9/16" X 13-9/16" for the upper section and 12" X 12" for the lower section.

CLEANING

The Amico Outlets are factory cleaned for oxygen service. Exposed surfaces of the outlet may be cleaned with a mild detergent solution or wiped with a disinfectant commonly used in patient rooms that is compatible with plastics, anodized aluminium and die cast zinc. Lubricate elastomer seals sparingly with a silicone lubricant that is oxygen compatible. **DO NOT USE OIL.**

INSPECTION AND TESTING

Medical Gas Outlets should be inspected periodically or at least once a year. The test should be in accordance with NFPA 99-93 "*Gas and Vacuum systems*", or CSA Z305.1-92 "*Nonflammable Medical Gas Piping System*".

Test for leaks: Ensure that no leak exists, with or without the adapter inserted.

Test for Indexing: Only a mating gas specific adapter should insert smoothly into the outlet, latch and be retained.

Test for Flow:

- Gas Outlets: 120 l/min (4.2 scfm) @ 345 kPa (50 psi), maximum allowable pressure drop is 28 kPa (4 psi).
- Nitrogen Outlet: 400 l/min (14.1 scfm) @ 1,250 kPa (180 psi), maximum allowable pressure drop is 70 kPa (10 psi).
- Vacuum Outlet: 30 l/min (1.1 scfm) @ 54 kPa (16 inHg), maximum allowable pressure drop is 13 kPa (4 inHg).

Refer to the appropriate standards for the proper way of performing the flow test.

Note: The Amico medical gas and vacuum outlets meet and exceed these requirements at the time of manufacture. However piping source capacity, sizing and restrictions may prevent outlets from attaining these values.

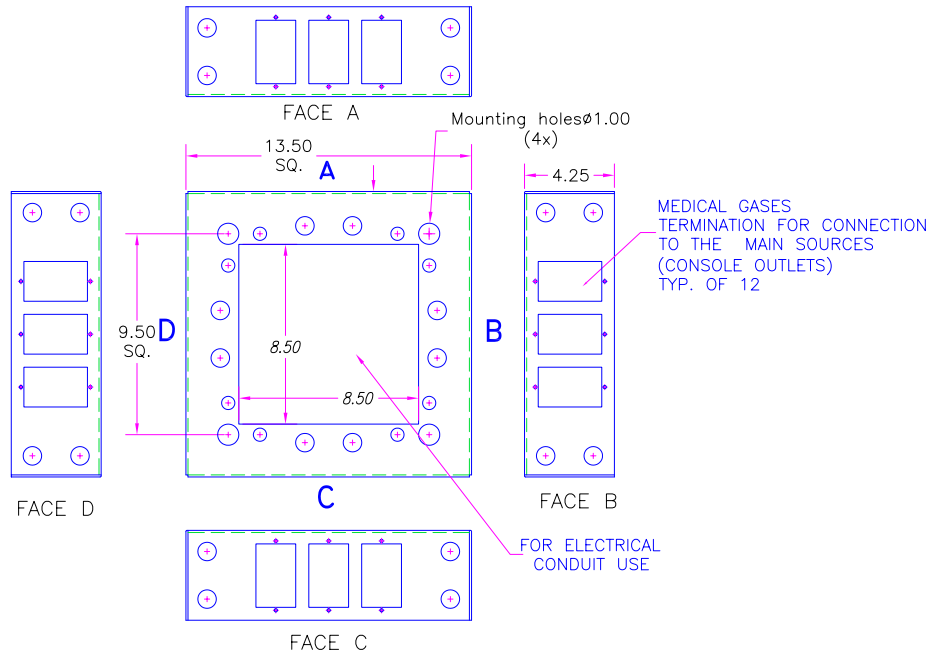
MOUNTING OF THE RISER PLATE

Riser plates are custom made to the design of the purchased ceiling column. Each riser plate comes equipped with gas specific pipe stubs and hardware to attach the ceiling column to the riser plate.

The access panel side of the riser plate is labelled for proper alignment when attaching to the support structure. The assembly of the support structure is done by others.

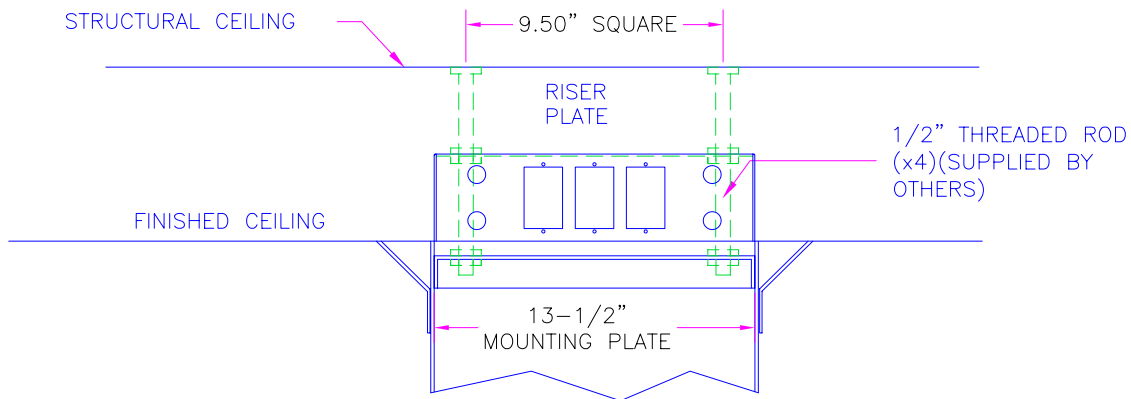
Mounting the riser plate to the support structure is done using the four 1" diameter mounting holes as indicated in Figure 1.

Figure 1



Ensure that the access panel label is positioned in accordance to customers specifications. Ensure the riser plate is orientated as shown in Figure 2.

Figure 2



Gas specific pipe stubs should be brazed into the appropriate gas pipelines at this stage. Brazing should comply to regional regulations.

MOUNTING OF THE CEILING COLUMN TO THE RISER PLATE

There will be four (4) 1/2" - 13 x 2 1/2" bolts attached to the riser plate. Each bolt contains three (3) 1/2" nuts, two (2) 1/2" washers and one (1) nylon retaining washer.

Remove the outer and inner access panels from the ceiling column using a #2 Phillips screw driver. Cut the cable ties supporting the gas hoses to the ceiling column mounting plate. Remove nuts and washers labelled 3 on diagram from the riser plate mounting bolts. Hoist the ceiling column into the riser plate. Ensure the access panel of the ceiling column aligns with the riser plate's access panel side. Attach the washer and nuts and ensure the ceiling column is level.

When the ceiling column is in the plate, run conduit through the three inch diameter hole on the riser plate and leave electrician to hook up to electrical junction box. Ensure gas pipelines are shut off before removing pressure caps from gas specific pipe stubs (gas specific pipe stubs do not have demand checks). Once pipelines are confirmed shut off, remove pressure caps from the gas specific pipe stubs and attach corresponding gas hoses. All gas specific pipe stubs are labelled and color coded for easy identification. Ensure when attaching hose to pipe stubs that hoses are not tangled.

D I S T R I B U T E D B Y :



14 Madison Rd., Fairfield, NJ 07004 USA
85 Fulton Way, Richmond Hill, ON L4B 2N4 Canada

Tel: 1-877-GO AMICO (1-877-462-6426)
Fax: (905) 764-0862 www.amico.com