

AMBIANCE[®] **MOTHER HEADWALL**



OVERVIEW

The Ambiance® Mother Headwall has an aesthetically pleasing design and is available in a selection of wood finishes. The unit has 270° bi-fold doors concealing deep compartments for mounting flowmeters, suction regulators and suction canisters, as well as connections for electrical and medical gas services. The doors close without pinching cables or tubes, providing effective cable management while services are in use.

PREPARATION

1. 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
 - Production drawings of each type unit showing unit elevation, which should match jobsite drawings
 - Room numbers and locations in building (if applicable)
2. **WARNING:** Before installation of Ambiance® units, make sure walls are constructed of at least 20-gauge steel studs. Failure to do so could lead to the collapse of the unit, with resulting personal injury or property damage.
3. Factory-supplied templates may need additional backing plates on either side for support with studs left and right of unit to meet job site specifications. Template locations are detailed in the approved shop drawings and submittal booklet.

TEMPLATE INSTALLATION

The Ambiance® Mother Headwall includes a template for locating electrical backboxes and medical gas piping installed in the building wall of new construction prior to the installation of 5/8" drywall. This template is shipped separately. Template should be attached to a minimum of two vertical studs with standard framing fasteners.

Locations of these services are indicated in Figure 1. Each electrical junction box location (items J1–J3) uses a single-gang plaster ring matching the appropriate drywall thickness (Figure 2). Use 4" square backboxes.

NOTE: Refer to approved shop drawings for the required layout of services, since incoming services will be reversed in rooms where opposite-hand units are required.

WARNING: Locate screws to avoid piercing med gas lines or roughed-in electrical and low-voltage raceways.

NOTE: Dimensions shown are for standard templates only.

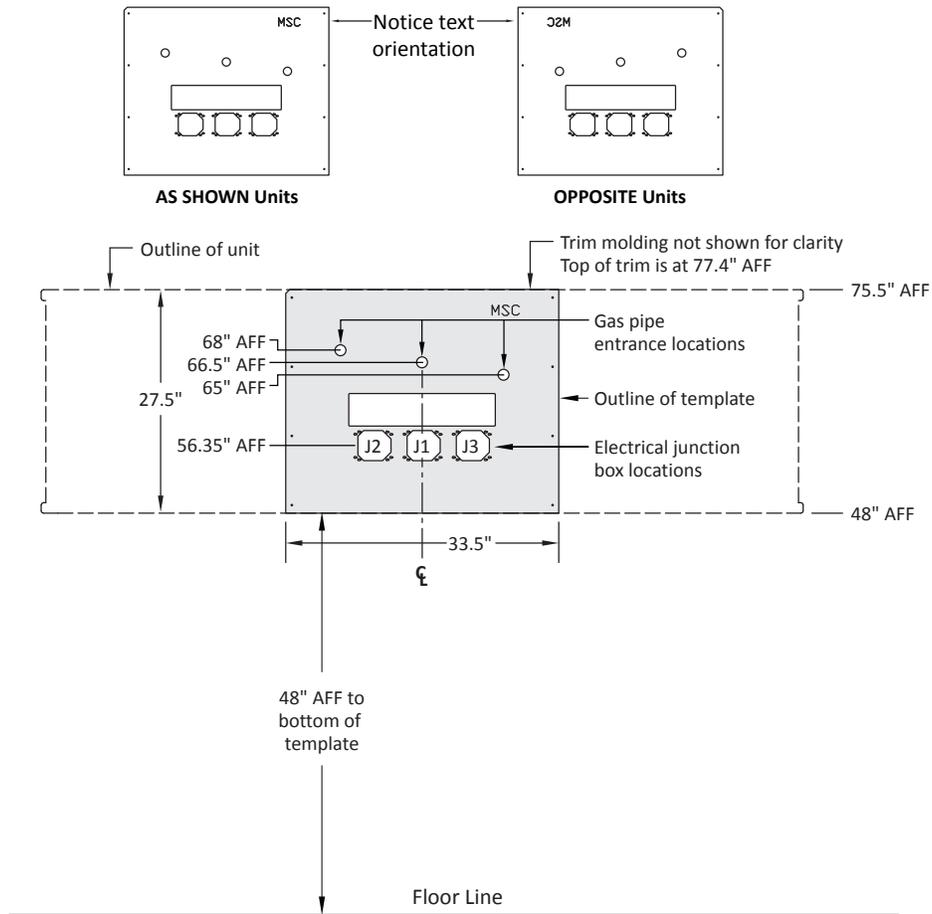
NOTE: The order of the medical gas lines should match the layout of the gas lines in the units to minimize the number of fittings required. See approved shop drawings.

All medical gas piping will be cleaned, purged and capped for each outlet. Medical gas piping will be a minimum of 1/2" I.D. for oxygen and medical air and 3/4" I.D. for vacuum. All medical gas piping will be Type L copper tubing. Take care during brazing operations to protect electrical conduits and wiring.

After installation of medical gas pipes to the locations indicated on the template and pressure testing, installer will cut stubs to the length necessary in order to accommodate connection to the unit.

Required wall finishes may be applied at this time, prior to installation of the unit.

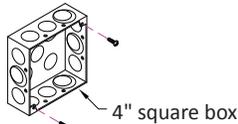
Figure 1.



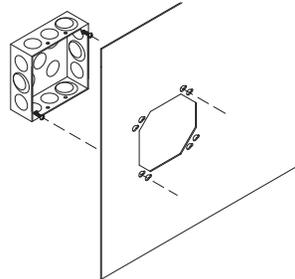
NOTE: Modular Services Company provides only the installation template. All conduit, junction boxes, piping and connectors are provided and installed by others.

Figure 2.

Attach two #8-32 mounting screws to 4" square box (supplied by others). Do not tighten screws.



Slide electrical box with mounting screws through template keyholes.



Attach plaster ring of appropriate depth to box (mount tile plate horizontally) and tighten screws.

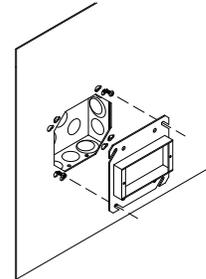
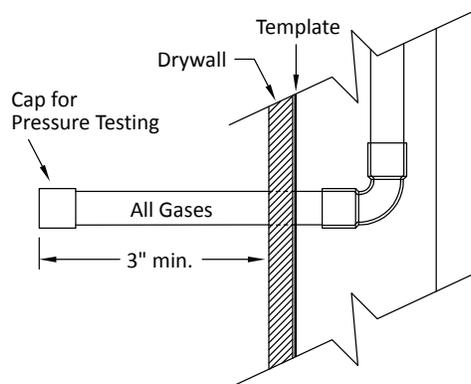


Figure 3.



UNIT INSTALLATION

Recheck project-specific elevation drawings and wiring schematics to determine individual medical gas and electrical rough-ins match jobsite specifications. These requirements will vary based on individual unit configurations.

Refer to Figure 4 to determine the location of the Ambiance® Mother Headwall:

1. Locate the proposed unit centerline by measuring out from the center medical gas entrance location.
2. To attach hanging strip, measure 12.75" above the horizontal center of the junction boxes to locate the bottom of the hanging strip. Mark a level horizontal line at this location for use in aligning the strip.
3. Center and level the hanging strip, measuring out from the centerline established in Step 1 above. Mount the strip with sheet metal screws (by others) through template and wall studs. Additional backing plates may be added left and right of template, if necessary.

WARNING: Locate screws to avoid piercing med gas lines or roughed-in electrical and low-voltage raceways.

NOTE: For seismic installations, see seismic addendum for mounting and fastening instructions.

4. To remove the access panel and expose the electrical and gas hookup locations, detach the inside angled doors on both sides of the cabinet (pull forward on the back of each hinge bracket, releasing the catch lever to separate the hinge). Remove the four screws on the access panel (Figure 5) and remove the access panel and junction box cover.
5. Position unit over hanging strip and lower into place. Take precautions not to damage medical gas stubs in wall. Align the unit so that each med gas service stub engages its respective tee or ell (provided by others) on the med gas manifold. Check alignment of junction boxes with service entry points in back of junction box. Make adjustments to ensure all services (med gas and electrical) are aligned.
6. When installing two units side by side, space templates on wall so that cabinet placement will allow doors to open fully.

Figure 4.

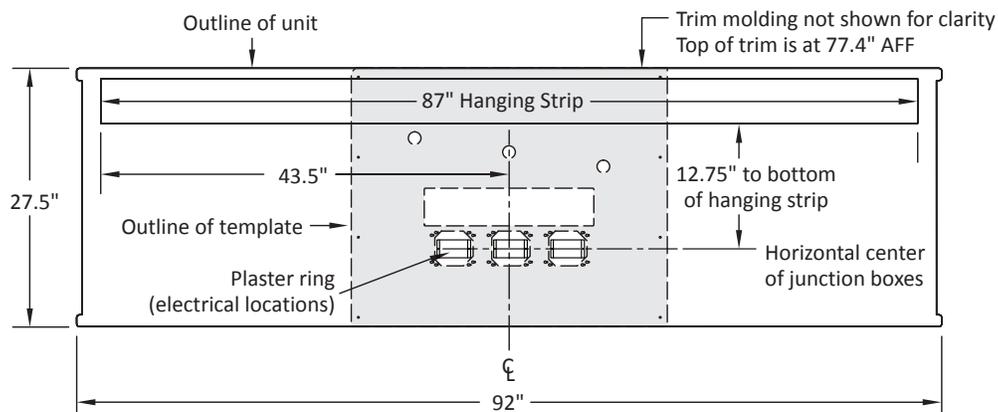
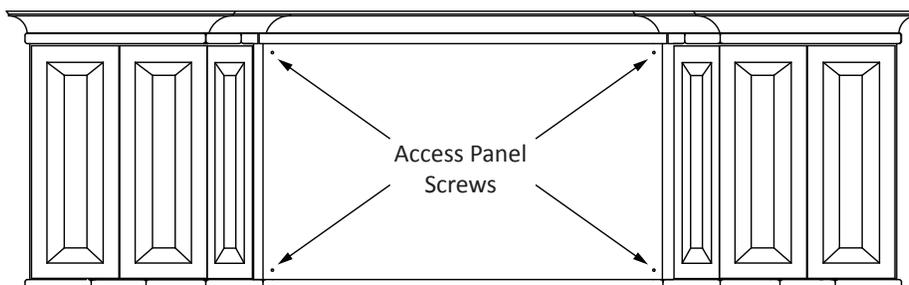


Figure 5.



7. Attach bottom of unit to wall through holes provided in junction boxes.
8. Refer to project-specific elevation drawings for the internal wiring and medical gas configurations. Make connections to the medical gas, electrical and communication services in accordance with applicable national and local electrical codes. Pull in the telephone and nurse call wiring, as required. Field terminations are to be made within the unit.
9. Reinstall access panels.

MEDICAL GAS SERVICE CONNECTIONS

Use extreme care in making the medical gas service connections. Each single-point service connection has been provided with a color-coded medical gas label. Medical gas systems provided by Modular Services have been cleaned, purged, brazed, blown down, labeled, and tested for cross connections and leaks in accordance with the most recent edition of NFPA 99. They are certified to be compliant to all of these requirements and to be leak free. The medical gas system installer is responsible for connecting this manufactured assembly to the pipeline in compliance with all applicable sections of the latest edition of NFPA 99.

During the process of connection to the pipeline there are multiple potential sources of contamination or damage to seals which could result in leaks. First, although Modular Services takes care to protect the ends of our piping system and the openings of station inlets/outlets to avoid contamination, it is at this point that these contamination prevention measures must be removed which exposes the system to the construction environment. Secondly, instrumentation must be inserted into the station inlets/outlets to properly purge the system while it is being brazed in accordance with the requirements of NFPA 99. Lastly, station inlet/outlet front body assemblies (if product is shipped with them installed), which are only rated to a maximum of 100 PSI, must be removed to conduct the initial pressure test which is required to be conducted at a minimum of 150 PSI. After this test is complete the front bodies must be reinstalled to conduct the standing pressure test.

In accordance with NFPA 99 section 5.1.12.2, the installer is required to test the distribution piping in its entirety, which includes the medical gas manifolds provided by Modular even though they have been pretested at the factory. Because of the multiple potential sources of contamination or damage to seals listed above, the installer is to be held responsible for repairing or replacing any seals which have been contaminated or damaged as a result of the process of connecting to the pipeline. The installer shall also be responsible for protecting the station inlets/outlets against contamination after the factory protection has been removed.

Modular Services warrants all defects in piping materials, brazed joints, and workmanship but cannot warrant leaking seals once the factory provided contamination prevention materials are removed from either the end of the piping or the station inlet/outlet.

ELECTRICAL SERVICE CONNECTIONS

1. Ensure all electrical power circuits are locked off prior to connection of electrical services.
2. Review wiring diagram or shop drawing for wiring specifications specific to your particular installation requirements.
3. Connect all electrical service according to wiring diagram, carefully observing labels on service connection junction boxes.
4. Test equipment in accordance with NFPA 70 (National Electrical Code), in addition to any applicable state or local codes.
5. Replace electrical device cover plates.

LOW-VOLTAGE PROVISIONS

Provisions have been made for the installation of such items as nurse call, code blue, telephone outlets, television outlets, heart monitor outputs, etc., according to the project drawings. A blank plate is typically provided for these areas that may be replaced or removed and punched as required to accommodate the various devices.

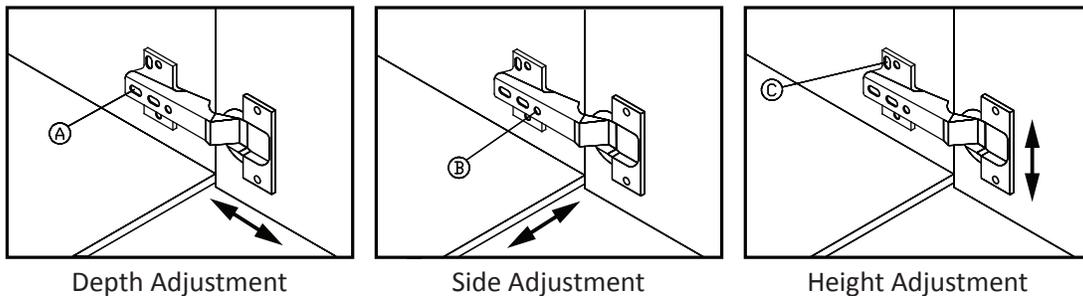
DOOR HINGE ADJUSTMENT

Required Tool: Phillips screwdriver

Refer to Figure 6 and make adjustments to the door hinges, as necessary.

1. To adjust the depth of the door, loosen screw (A), move the door to the desired position, and tighten screw (A).
2. To adjust the side positioning of the door, loosen screw (B), move the door to the desired position, and tighten screw (B).
3. To adjust the height of the door, loosen screw (C), move the door to the desired position, and tighten screw (C).

Figure 6.



INSTALLATION TERMS AND CONDITIONS

Each Modular Services Company 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 held 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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