

Subject: Gallery Wall—Rough-In Installation Instructions

Tools required:	Screwdrivers	Saw
	Electric drill	Pliers
	Hammer	Level
	Tape measure	1/8" drill bit
	T-square	
Parts required:	Framing materials	Nails
	Pan-head screws (assorted)	Electrical fittings
	Flexible electrical conduit	Self-tapping metal screws

Introduction

The Gallery Wall delivers medical gases and electrical services in a prefabricated unit. It also conceals the delivery of these services behind a sliding decorative picture or artwork. The product comes in either left- or right-hand units.

The product is used within the Labor/Delivery/Recovery/Post-Partum (LDRP) area and any other areas of the facility where medical gases and electrical services must be delivered in an aesthetic manner. Other such areas are Cardiac Care Areas (low acuity), executive areas, or outpatient areas.

The Gallery Wall delivers oxygen, medical air, or vacuum in a three-gas, four-gas, or five-gas configuration. Electrical receptacles are also available on the three-gas and four-gas Gallery Wall.

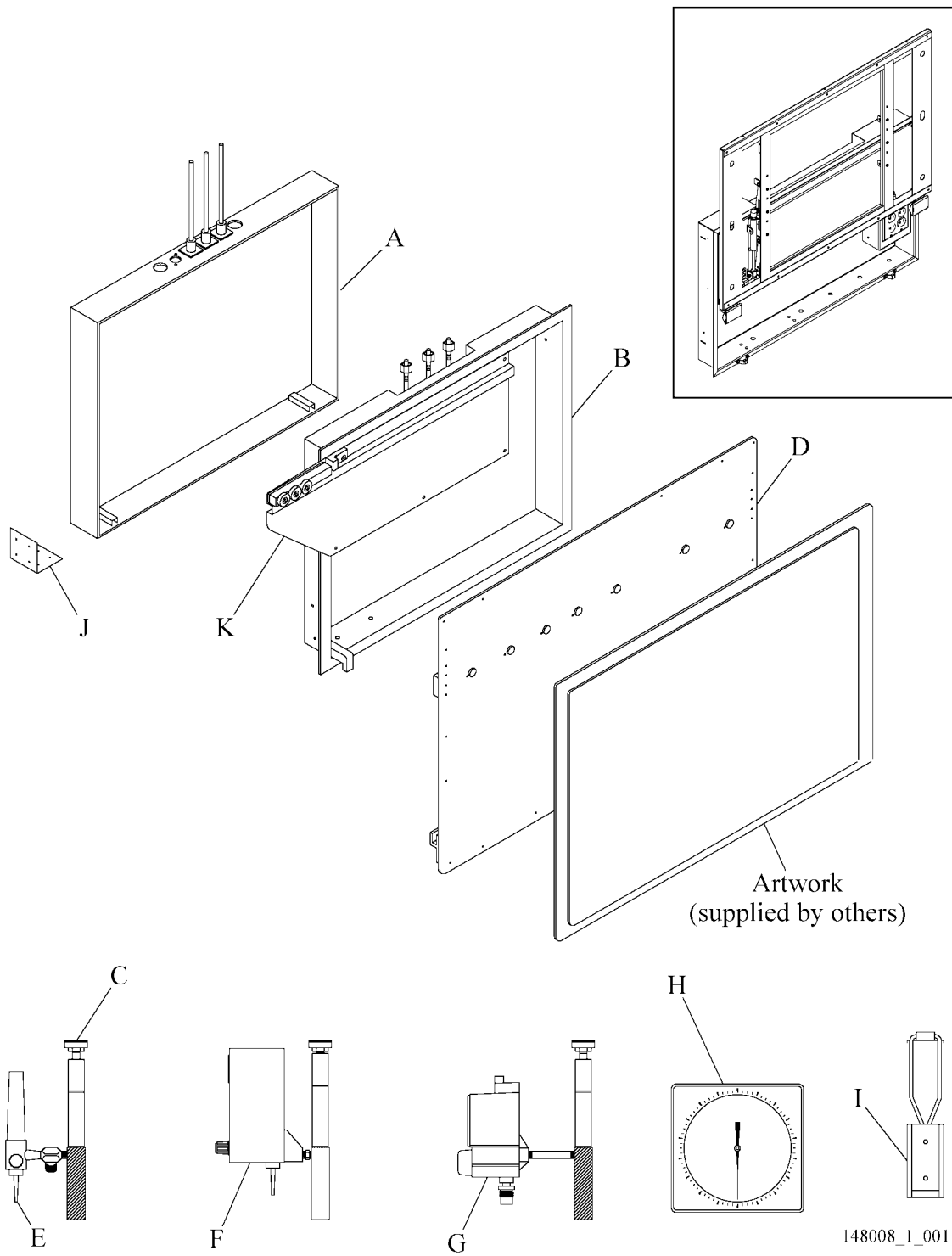
The Gallery Wall contains these major components (see figure 1 on page 2):

- Rough-in assembly (A)
- Finished assembly (B)
- Medical gas swiveling mechanism (C)
- Picture frame assembly (D)
- Cover plate/slide mechanism (K)
- Secondary equipment
 - Flow meter with PTO (E)
 - Intermittent suction unit (F)
 - Continuous suction unit (G)
 - Sphygmomanometer (H) (Tycos®¹ aneroid)
 - Flip-down vacuum bottle slide (I)

The rough-in assembly (A) is generally shipped first and the balance of the unit shipped later.

1. Tycos® is a registered trademark of Welch Allyn, Inc.

Figure 1. Gallery Wall



General Information



WARNING:

Make sure all of the national and local electrical and medical gas codes are followed during installation, particularly the National Electrical Code®¹ (NEC®)² and National Fire Protection Association (NFPA®³-99). Failure to do so could cause personal injury or equipment damage.

1. Make sure that the product has not been damaged in shipment.
2. Refer to your original purchase order to make sure all of the components have been shipped, including parts of the major components.
3. Read all of the installation instructions.
4. Coordinate the installation of the Gallery Wall with the applicable responsible tradespersons.
5. Review the architectural drawings to make sure the product is located correctly, specifically that the left- and right-hand units are installed in the correct locations.
6. Make sure there is enough room to open the picture and that opening the picture will not interfere with other devices on the wall.

Preparing the Wall

1. Find the area where the Gallery Wall will be installed.

NOTE:

If you center the Gallery Wall above a bed or piece of furniture, be aware that the centerline of the rough-in assembly is **not** the centerline of the picture frame on the horizontally sliding picture unit. The picture frame is offset 2½" (6.35 cm) toward the cover plate/slide mechanism.

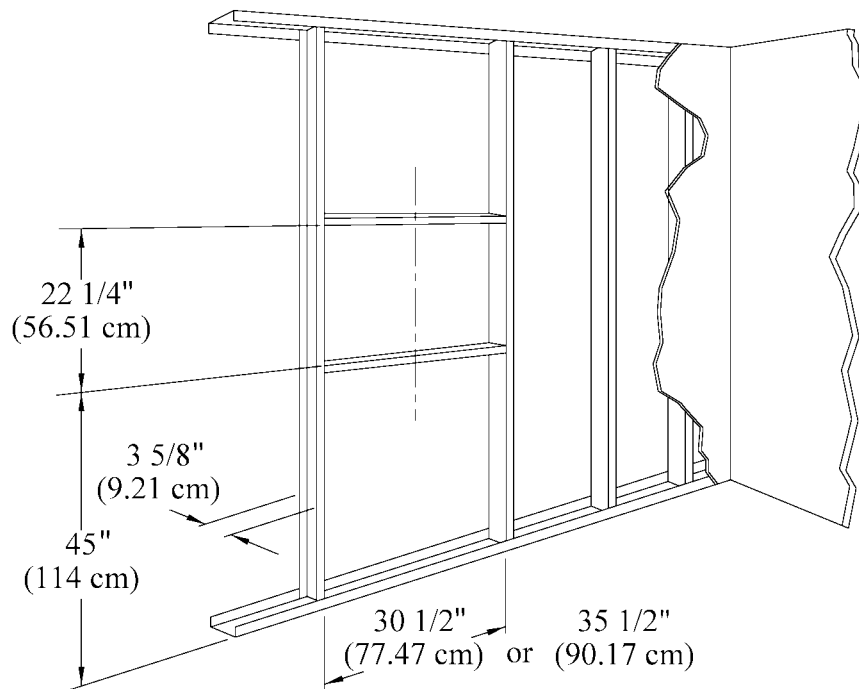
2. Do one of these:
 - a. For horizontal sliding picture units, if you center the picture over a bed, adjust the centerline of the rough-in assembly 2½" (6.35 cm) to the left for a right-hand unit, or 2½" (6.35 cm) to the right for a left-hand unit.
 - b. For vertical moving picture unit, the bed centerline is on center.
3. Put the Gallery Wall in relation to the closest wall by measuring from the applicable wall to either the left or right edge of the unit (see figure 2 on page 4).

1. National Electrical Code® is a registered trademark of National Fire Protection Association, Inc.

2. NEC® is a registered trademark of National Fire Protection Association, Inc.

3. NFPA® is a registered trademark of National Fire Protection Association, Inc.

Figure 2. Rough-in Wall Preparation



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4. Locate the Gallery Wall above the finished floor by measuring from the floor to the location of the bottom edge of the unit. Refer to the Hill-Rom drawings for the correct size of the headwall.
5. Use the two reference points and mark a rectangle that is 22¼" (56.51 cm) tall x 30½" (77.47 cm) **or** 35.5" (90.17cm) wide. Make sure that the rectangle is level and square.
6. Make sure that measurements conform to the architectural requirements for location according to the architectural plans, specifications, and submittals.
7. For horizontal sliding picture units, make sure that the movement of the frame to open the unit is correct (right or left).

NOTE:

If spacing is tight, the opening can be located as close as 38" (97 cm) from the closest physical barrier. In this situation, in order to remove the picture frame assembly, the cover plate/slide mechanism must also be removed while the picture frame assembly is still attached.

8. For horizontal sliding picture units, make sure the rectangular opening is located a minimum of 44" (112 cm) from an adjacent wall or any other device or physical barrier.

**WARNING:**

Disconnect/turn off and tag all of the electrical power and medical gases before you start to work. Failure to do so could cause personal injury or equipment damage.

9. Before you begin work, disconnect all electrical power, and shut off any gas supplies to the wall being prepared.

**WARNING:**

Make sure there is no electrical conduit, piping, or any utilities within the area or behind the Gallery Wall. Failure to do so could cause personal injury or equipment damage.

10. Consult with facility maintenance personnel and review mechanical drawings to make sure no conduit, wires, piping, or other utilities are located within the wall area selected for location of the Gallery Wall.
11. Create an opening according to the dimensional markings made in step 5.
12. Use either metal or wood framing material to frame a location for the rough-in assembly.

NOTE:

The rough-in assembly requires support by a minimum of two vertical or two horizontal framing members. An existing stud or framing member may be used if it is in the proper location.

13. Use the level to make sure the vertical or horizontal framing members are level or plumb.

NOTE:

The rough-in assembly requires a smooth surface for attachment.

14. Make sure the rough-in assembly will be flush with the framing members, so that the edge of the rough-in assembly will be flush with the finished wall.

Installing the Rough-in Assembly

The top of the rough-in assembly (A) has six holes for installation of the medical gases and electrical services (see figure 1 on page 2). It is supplied with four right-angle brackets (J) that may be attached to the four corners. The right-angle brackets (J) are then mounted to the vertical framing member. Use of the right-angle brackets (J) is optional.

1. Make sure the rough-in assembly has been installed correctly for proper picture frame centering. See “Preparing the Wall” on page 3 and figure 2 on page 4.
2. Slide the rough-in assembly into the rough opening.
 - a. Make sure it is fully seated.
 - b. Make sure the front edge of the rough-in assembly extends past the framing studs to the depth of dry wall or wall finishing material. For example, if 5/8" dry wall is being used, the rough-in assembly must extend past the framing members by this dimension to compensate for the material.
3. Attach the rough-in assembly.
 - If the framing studs are vertical, use the supplied angle brackets (J) (see figure 1 on page 2).
 - If the framing studs are horizontal, use the pre-drilled holes for mounting to the top and the bottom horizontal framing member.
 - Use the applicable size of pan-head screw. The screws should penetrate through the framing member.
4. Tighten the screws firmly but do not tighten too much.
5. Make sure the rough-in assembly is level and square because it will determine whether the picture frame is level after installation.

Installing the Medical Gas Kits

Refer to the architectural drawing to find the medical gas requirements and location of the medical gases within the unit. There may be up to five medical gas connections.



WARNING:

Medical gas piping from the facility should be brought to the gas kits and brazed in accordance with NFPA®¹-99 and any other local or state codes. Failure to do so could cause in personal injury or equipment damage.

1. Make sure the medical gas piping coming into the rough-in assembly has been brazed in accordance with NFPA®-99 and any other local or state codes.

NOTE:

The smaller, middle holes on the top of the rough-in assembly are for the medical gases (see figure 1 on page 2; a three-gas connection is shown).



WARNING:

Proper sequencing of the gases is important. Follow the sequence specified in the submittal and drawing packages. Failure to do so could cause personal injury and danger to the welfare of the patient.

2. Use the architectural drawing as a reference and install the gas kits in the applicable holes.

To simplify the connections, follow the gas sequence as specified on the architectural drawings.

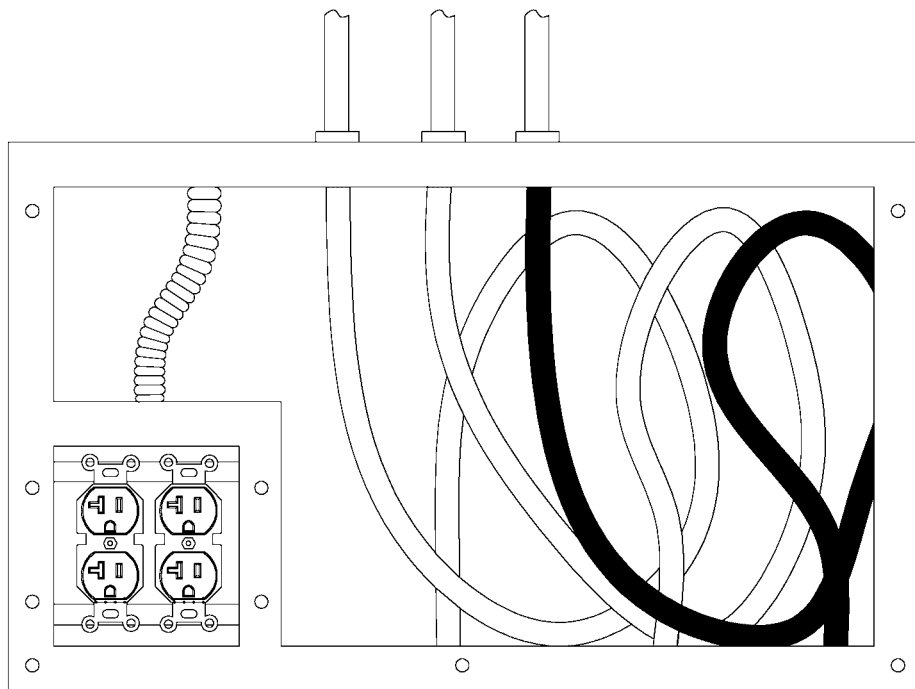
- a. Remove the nut from the gas kit (device with the long copper extension).
- b. Insert the long copper extension through the hole(s) at the top of the enclosure.
- c. Fasten the gas kit to the rough-in assembly using the nut removed in Step 2.a.
- d. Braze per NFPA®-99 and all state and local codes.

1. NFPA® is a registered trademark of National Fire Protection Association, Inc.

Connecting Electrical Services

The two larger outside holes on the top edge of the rough-in assembly (A) are used to connect the electrical service. Electrical conduit sized and supplied by others must have been run from the facility to the correct hole in the top frame of the rough-in assembly (A).

Figure 3. Gas/Electric Compartment



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1. Follow proper NEC^{®1} requirements and use an applicable electrical fitting to attach the conduit to the finish assembly (B) (see figure 1 on page 2).
2. Let approximately 16.0" (40.6 cm) of flexible conduit extend through the hole into the gas/electric compartment for connection to the electrical receptacle.

1. NEC[®] is a registered trademark of National Fire Protection Association, Inc.