



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:	Frame materials	Nails
	Pan-head screws (assorted)	Electrical fittings
	Flexible electrical conduit	Self-tap metal screws

Introduction

The Gallery Wall is an attractive prefabricated wall unit that supplies medical gases and electrical services to the patient environment. It conceals the wires, pipes, and connections of these services behind a decorative picture or artwork and is available in a left or right hand configurations.

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

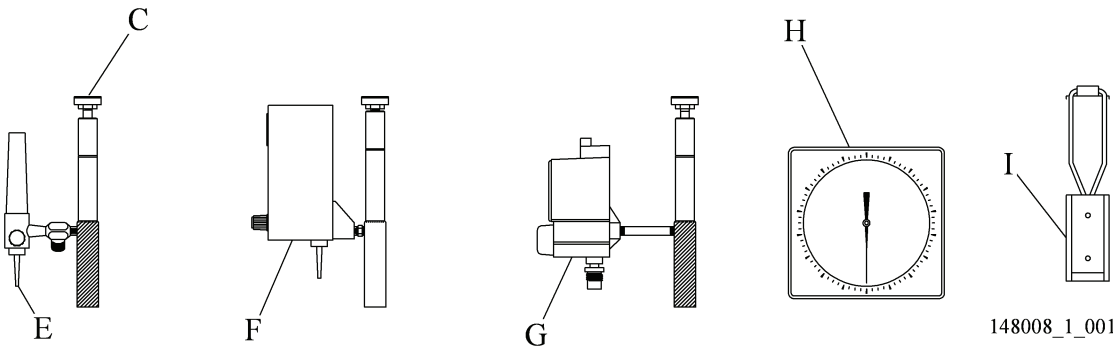
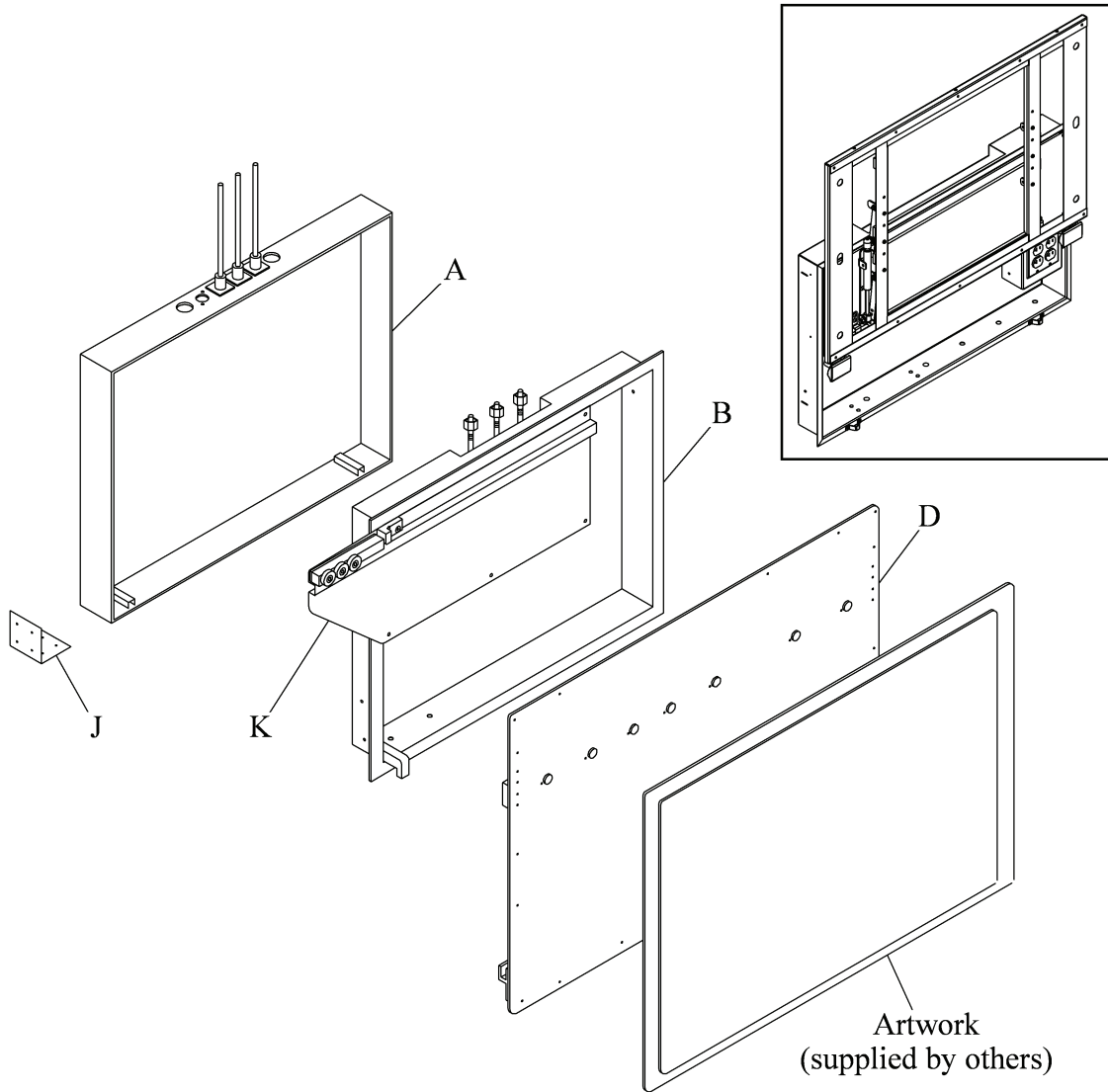
The Gallery Wall contains these components (see figure 1 on page 2):

- Rough-in assembly (A)
- Finished assembly (B)
- Medical gas swivel mechanism (C)
- Picture frame assembly (D)
- Cover plate/slide mechanism (K)
- Optional 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 usually shipped first and the balance of the unit shipped subsequently.

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

Figure 1. Gallery Wall



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General Information



WARNING:

When you install this unit, make sure all of the national, state, and local electrical and medical gas codes are followed, particularly the National Fire Protection Association® (NFPA) NFPA 99: *Standard for Health Care Facilities* and NFPA 70: *National Electrical Code*®¹ (NEC®). Failure to do so could cause injury or equipment damage.

1. Make sure that the unit has not been damaged in shipment.
2. Refer to your original purchase order to make sure all of the components have been shipped.
3. Read all of the installation instructions.
4. Make sure the applicable trades persons are available for the installation.
5. Examine the architectural drawings to make sure the unit is installed correctly, specifically that the left and right hand units are installed in the correct locations.
6. Make sure there is sufficient room to open the unit and that it will not permit the unit to touch with other devices on the wall.

Prepare the Wall

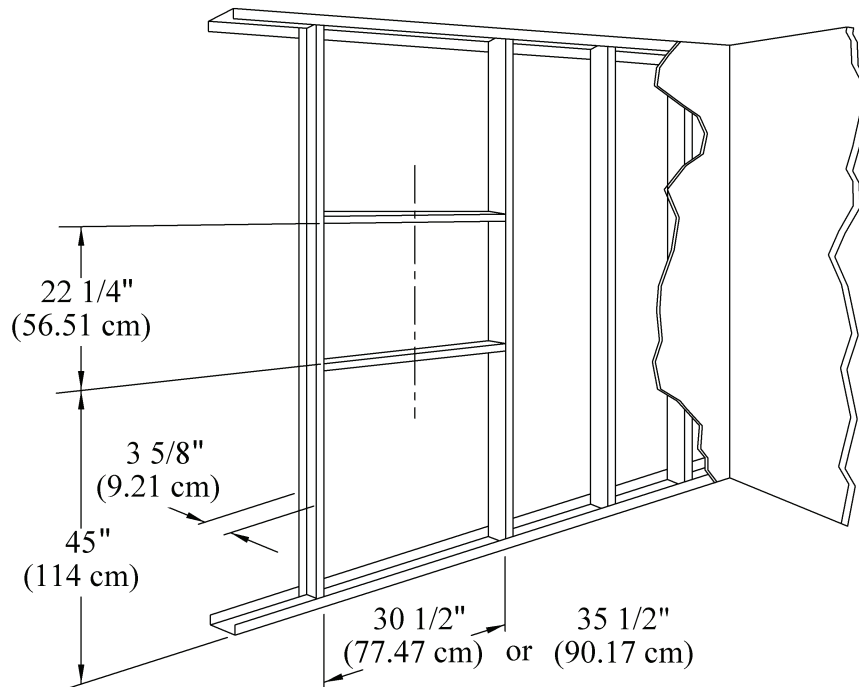
1. Find the area where the Gallery Wall will be installed.

NOTE:

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

2. Do one of these:
 - a. For horizontal units, if you put 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 the vertical unit, the bed centerline is on center.
3. Install the Gallery Wall in relation to the nearest wall and measure from the applicable wall to the left or right edge of the unit (see figure 2 on page 4).

1. National Fire Protection Association®, National Electrical Code®, and NEC® are registered trademarks of National Fire Protection Association, Inc.

Figure 2. Rough-in Wall Preparation

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4. Install the Gallery Wall above the finished floor and measure from the floor to the location of the bottom edge of the unit. Refer to the Hill-Rom drawings for the correct dimension of the headwall.
5. Use the two reference points and make a rectangle that is 22 1/4" (56.51 cm) tall x 30 1/2" (77.47 cm) or 35.5" (90.17 cm) wide. Make sure that the rectangle is level and square.
6. Make sure that measurements agree with the architectural plans, specifications, and submittals.
7. For the horizontal configuration units, make sure that the frame will open correctly and without obstructions to the left or right as necessary.

NOTE:

If the space is tight, the opening can be installed as near as 38" (97 cm) for the small units and 43" (109 cm) for the large units, from the nearest 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 the horizontal configuration units, make sure the rectangular opening is installed a minimum of 44" (112 cm) for the small units and 49" (125 cm) for the large units, from an adjacent wall or other device or physical barrier.



WARNING:

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

9. Before you start work, disconnect all electrical power, and shut off all gas supplies to the wall.



WARNING:

Make sure there is electrical conduit, pipes, and other utilities are closed in the area or behind the Gallery Wall. Failure to do so could cause injury or equipment damage.

10. Consult with facility maintenance persons and examine the mechanical drawings to make sure the conduit, wires, pipes, or other utilities are installed correctly in the wall area selected for location of the Gallery Wall.
11. Make a hole in accordance with the dimensional marks made in step 5.
12. Use metal or wood to frame the rough-in assembly.

NOTE:

The rough-in assembly requires a minimum of two vertical or two horizontal frame members to hold it in position. A facility wall stud or frame member can be used if it is in the correct location.

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

NOTE:

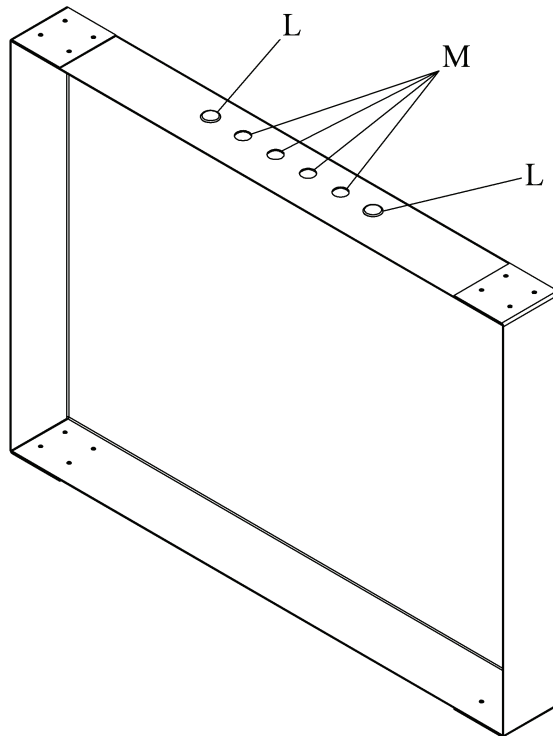
The rough-in assembly requires a smooth surface for attachment.

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

Install the Rough-in Assembly

The top of the rough-in assembly (A) has six holes, the two knockout holes (L) are .875" (22.23 mm) and the four holes (M) are .750" (19.05 mm). These holes are used for the installation of the medical gases and electrical services (see figure 3 on page 6). Refer to the architectural drawings for the specified location of the electrical conduit and medical gases supply pipes.

Figure 3. Electric Conduit and Medical Gas Holes



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The rough-in assembly (A) is supplied with four right-angle brackets (J) that can be attached to the four corners. The right-angle brackets (J) are then mounted to the vertical frame member. Use of the right-angle brackets (J) is optional (see figure 1 on page 2).

1. Make sure the rough-in assembly has been installed correctly for picture frame center. See “Prepare 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 beyond the frame studs to the depth of dry wall or other wall finish material. For example, if 5/8" dry wall is used, the rough-in assembly must extend beyond the frame members by this dimension to make allowance for the material.

3. Attach the rough-in assembly.
 - If the frame studs are vertical, use the supplied angle brackets (J) (see figure 1 on page 2).
 - If the frame studs are horizontal, use the pre-drilled holes to mount the top and the bottom horizontal frame member.
 - Use the applicable pan-head screw. The screws must go through the frame member.
4. Tighten the screws to make sure the unit is correctly attached to the frame material.
5. Make sure the rough-in assembly is level and square.

Install the Medical Gas Kits

Refer to the architectural drawing to find the medical gas requirements and location of the medical gases in the unit. There can be one to five medical gas connections.



WARNING:

Medical gas pipes from the facility must be brought to the gas kits and brazed in accordance with NFPA 99 and all national, state, and local codes. Failure to do so could cause injury or equipment damage.

1. Make sure the medical gas pipes that go into the rough-in assembly have been brazed in accordance with NFPA 99 and all national, state, and local 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:

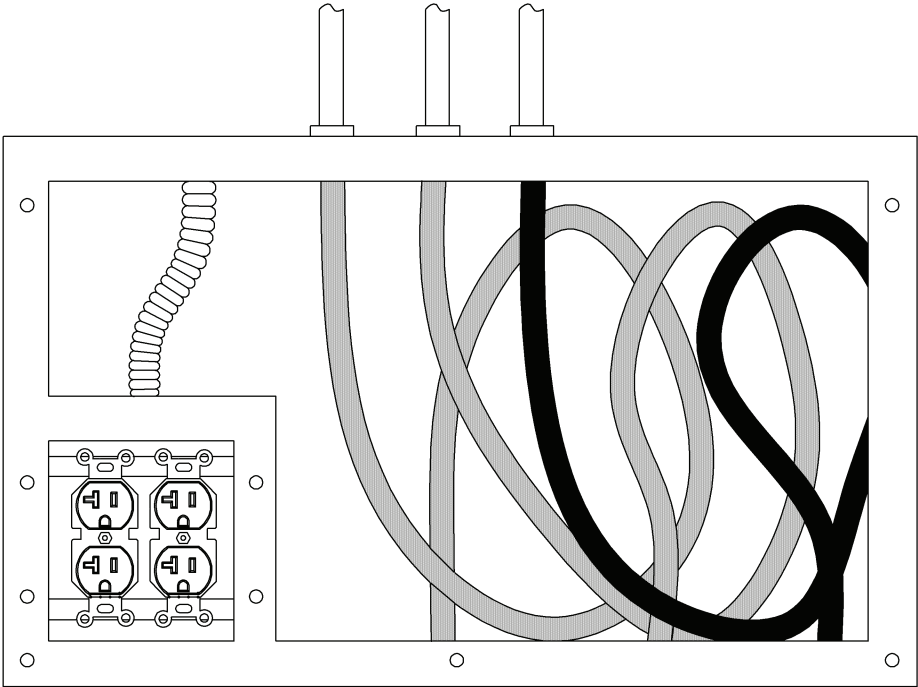
Correct sequence of the gases is important. Follow the sequence specified in the submittal and drawing packages. Failure to do so could cause injury.

2. Refer to the architectural drawing 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. Put the long copper extension through the hole(s) at the top of the unit.
 - c. Attach the gas kit to the rough-in assembly use the nut removed in Step 2.a.
 - d. Braze the gas pipes in accordance with NFPA 99 and all national, state, and local codes.

Connect 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 be installed correctly from the facility to the correct hole in the top frame of the rough-in assembly (A).

Figure 4. Gas/Electric Compartment



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1. Attach the electrical conduit fittings to the finished assembly (B) in accordance with NFPA 70 requirements (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.