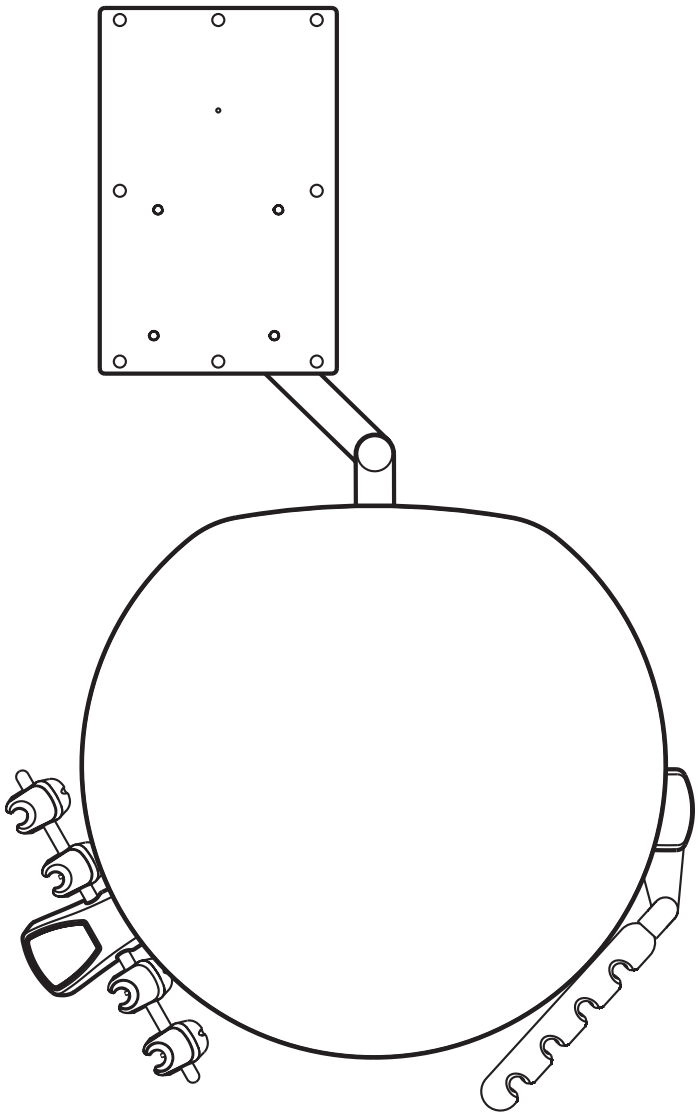
Installation Instructions

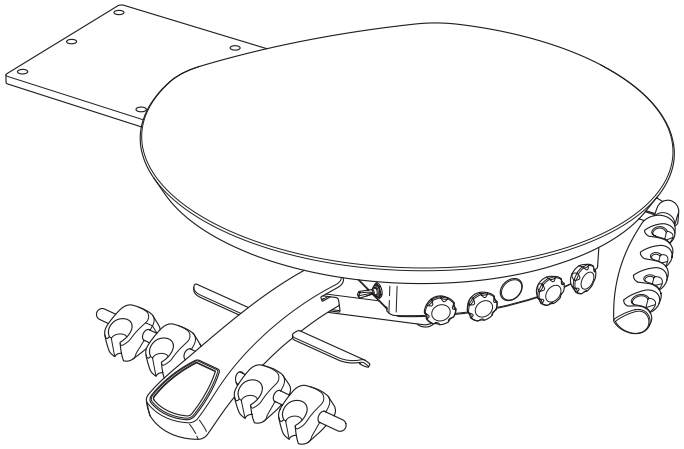
DCI EDGE



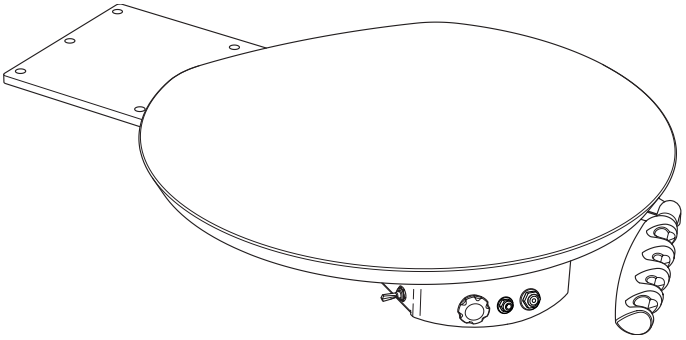
SERIES 4 12 O'CLOCK DENTAL DELIVERY SYSTEM

OVERVIEW

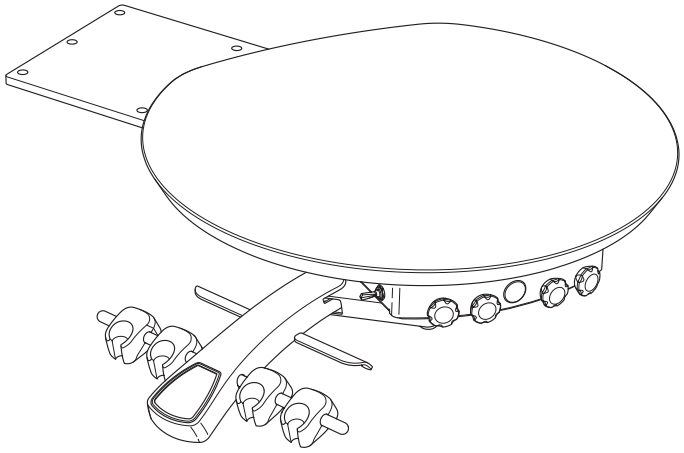
DR4550 12 O'Clock Cabinet Mount Dental Delivery System with Dr & Assistant's Instruments & Mobile Work Surface



DR4451 12 O'Clock Cabinet Mount Dental Delivery System with Assistant's Instruments & Mobile Work Surface



DR4552 12 O'Clock Cabinet Mount Dental Delivery System with Dr's Instruments



INTRODUCTION

BEFORE YOU BEGIN

Study the Dental Delivery System Overview in this booklet and layout dimensions from the owner's manual. Make sure the planned location will have the necessary space available for installation, including room for travel of the chair's base and backrest.

Open all containers and review the contents. It may be helpful to locate all kits containing accessories. (Smaller parts are often packaged together to avoid being lost.)

Locate all documentation supplied with the package. Manuals and installation sheets may be found in one or more boxes accompanying their respective components. Set aside the owner's manual for the end user to review.

If a complete ensemble is to be installed, set up the chair first. Refer to the installation manual supplied with the chair for instructions.

In all configurations, the delivery system pole, delivery system flex arm, and delivery system control head come shipped as a complete assembly. In some of the following illustrations, only the delivery system pole may be shown for clarity.

SYMBOLS USED IN THIS MANUAL

The following symbols may be used throughout this product manual:

WARNING: Failure to carefully follow the described procedure may result in serious damage to the equipment, or serious injury or harm to the operator.

CAUTION: Failure to carefully follow the described procedure may result in damage to the equipment, and/or the operatory.

NOTE: Take note of additional important information. Not a **CAUTION**.

ELECTRICAL HAZARD: Risk of electrical shock present. Ensure that power is disconnected before attempting procedure.

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REGULATORY INFORMATION

Regulatory information is delivered with DCI Edge dental equipment as mandated by agency requirements and can be found in the accompanying Instructions for Use for this device.

PREPARATION

TOOLS NEEDED FOR INSTALLATION

- Socket Wrench
- Socket Wrench Extension (3")
- 9/16" Socket (provided)
- Magnetic Level
- Allen Wrench Set
- Utility Knife

INCLUDED HARDWARE

- 6 1/4"-20 x 1" Machine Screws
- 1 1/2" x 1" Machine Screw
- 1/2" Flat Washer
- Plastic Grommet

CABINET FOR MOUNTING

NOTE: If the 12 o'clock cabinet to which you are installing this delivery system is not a DCI Edge 12 O'Clock Cabinet, you must follow the below steps 1-3.

1. Ensure that the cabinet to which this delivery system will be mounted has been rated at minimum to support the cantilevered, distributed load of 200lbs.

WARNING: Failure to ensure that this delivery system is mounted to a cabinet which can support the rated load could result in severe injury.

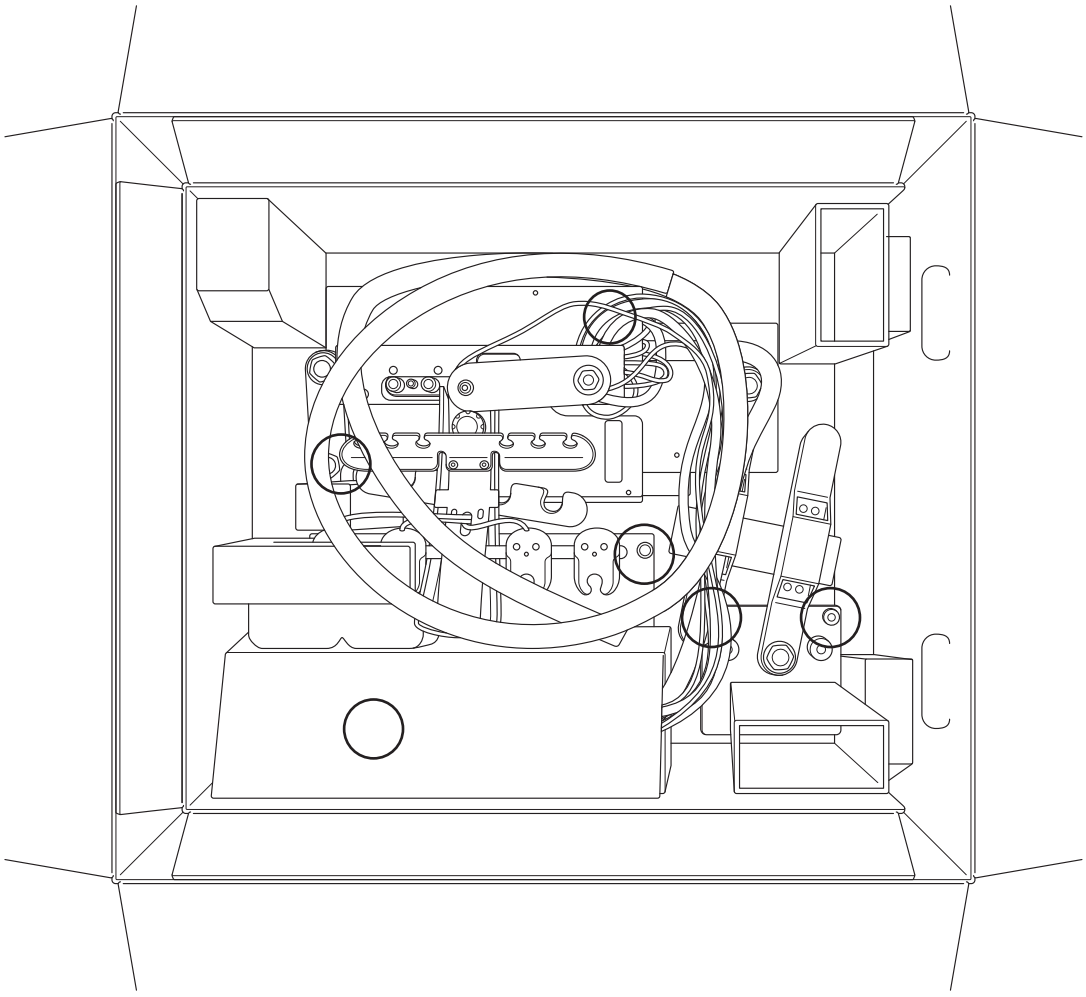
2. The board to which the mounting plate is attached should be composed of plywood or similar material to best support the load.

3. Drill 8 holes and install 1/4"-20 T-nuts from the top of the board to which the mounting plate will be assembled using the template provided.

DELIVERY WITH MOBILE WORK SURFACE

REMOVING FROM PACKAGING

1. Remove the countertop from the box. Using the 9/16" socket provided, remove the 2 bolts that attach the large plate to the board located at the bottom of the box.
2. Remove the 2 bolts that attach the small plate and arm assembly to the board located at the bottom of the box.
3. Remove the 2 bolts that attach the delivery system assembly to the board located at the bottom of the box.



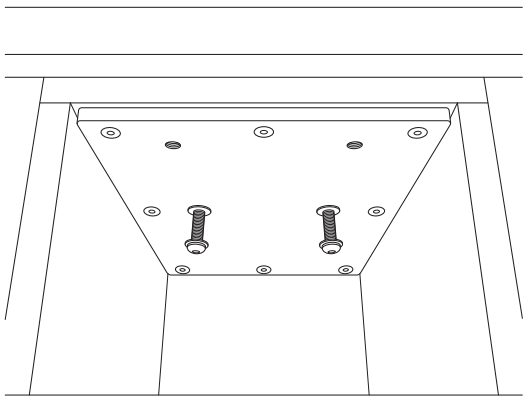
WARNING: To prevent injury, have an assistant support the weight of the delivery system and countertop during installation.

DELIVERY WITH MOBILE WORK SURFACE

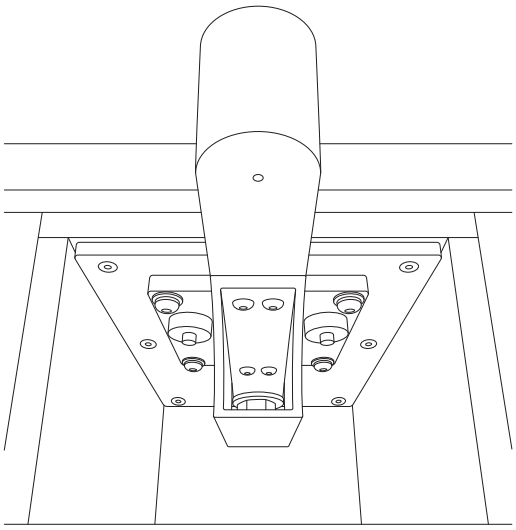
ATTACHING MOUNT PLATE AND LEVELING ASSEMBLY

1 Assemble the steel mount plate to the cabinet by aligning the plate to the T-nuts pre-installed in the cabinet and fastening with the 8 1/4"-20 bolts provided.

NOTE: If your cabinet already comes with a steel plate, skip to step 2.

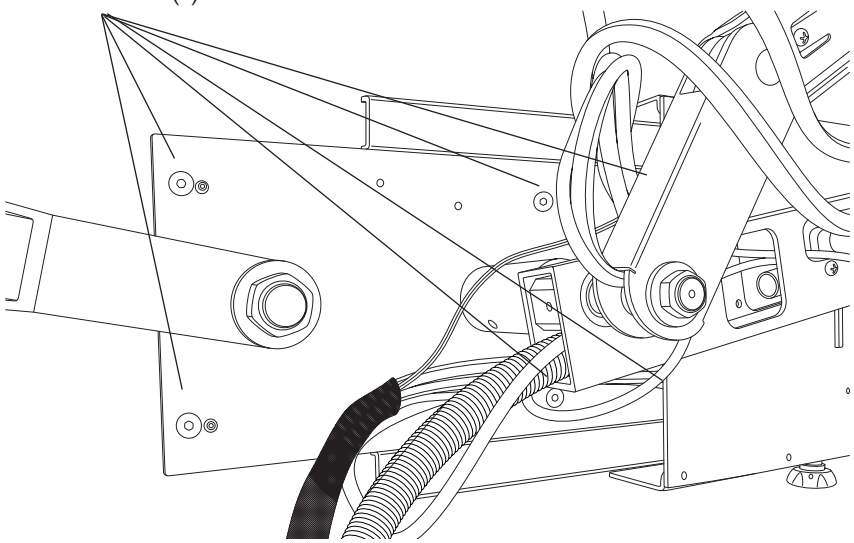


2 Slide the leveling assembly onto the bolts that are pre-installed in the mount plate. Then add the 2 3/8"-16 bolts and accompanying washers to the remaining open holes in the leveling plate. Then tighten all 4 bolts.



3 Place the countertop top-side down on the floor and align mounting holes of the delivery system plate to the threaded inserts in the bottom of the countertop. Attach using the 1/4"-20 x 1" long screws and lock washers in the hardware kit.

Attachment screws (6)



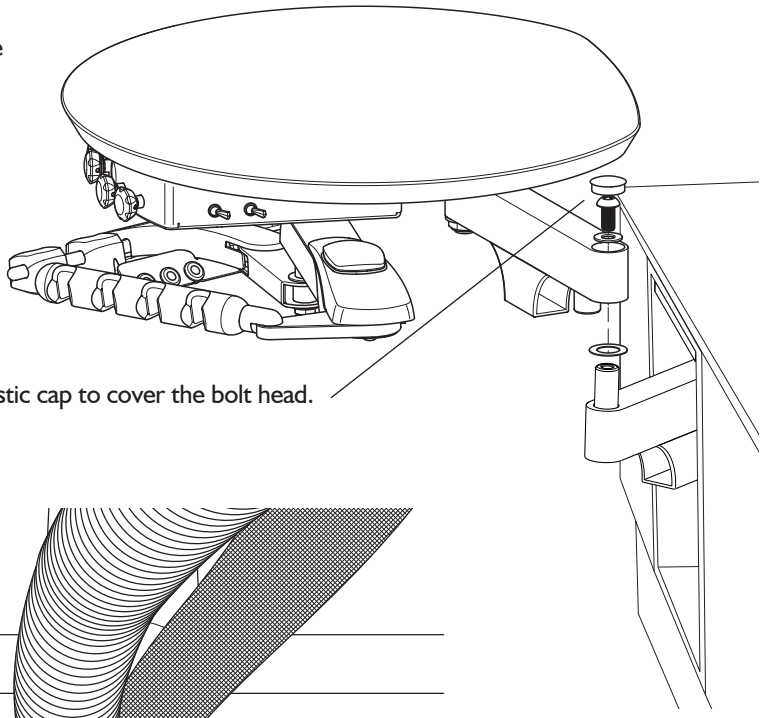
WARNING:

To prevent injury, have an assistant support the weight of the delivery system and countertop during installation.

DELIVERY WITH MOBILE WORK SURFACE

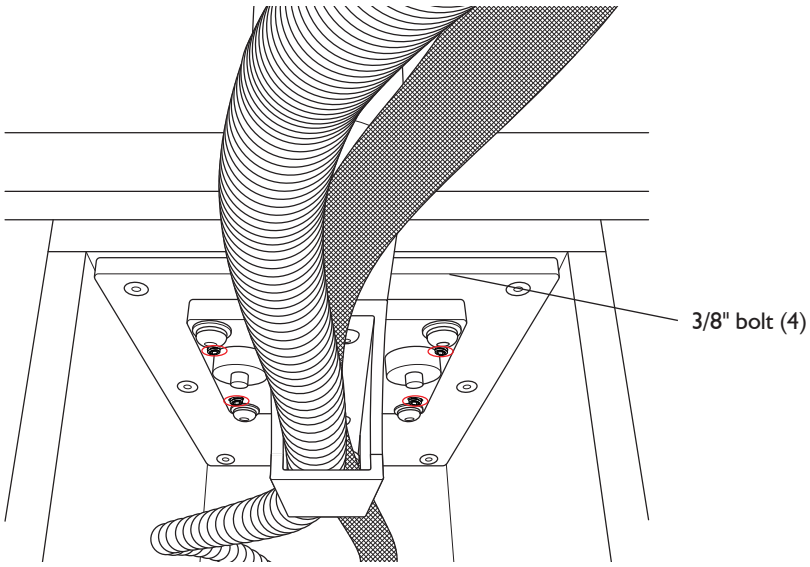
ATTACHING DELIVERY SYSTEM ASSEMBLY

1 Install the main delivery system assembly to the mount assembly by aligning the pin on the pivoting arm of the delivery system to the socket of the rigid arm that extends from the mount assembly. Then lower the delivery system assembly into position.



2 Secure using the 1/2"-12 x 1" bolt and add plastic cap to cover the bolt head.

3 Route the umbilical and vacuum line through the umbilical manager in the rigid arm and manage the umbilical inside the cabinet using the tubing manager provided.



4 Adjust the level by loosening the four 3/8" bolts by at least 2 full turns and then tightening the 4 set screws circled in the illustration (above) as needed. Retighten the 4 hex bolts and recheck the level.

WARNING: Before using of the equipment, ensure that the assembly is level and all mounting bolts are securely fastened.

ANCILLARY DEVICES

ATTACHING FOOT CONTROL

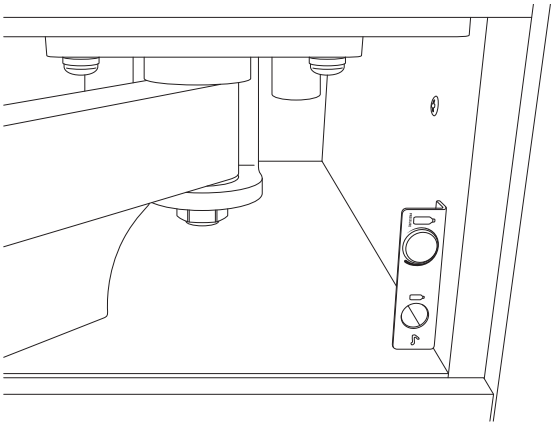
1 Place the Foot Control on the floor in front of the cabinet and route the Foot Control Tubing through the hole in the base of the cabinet.

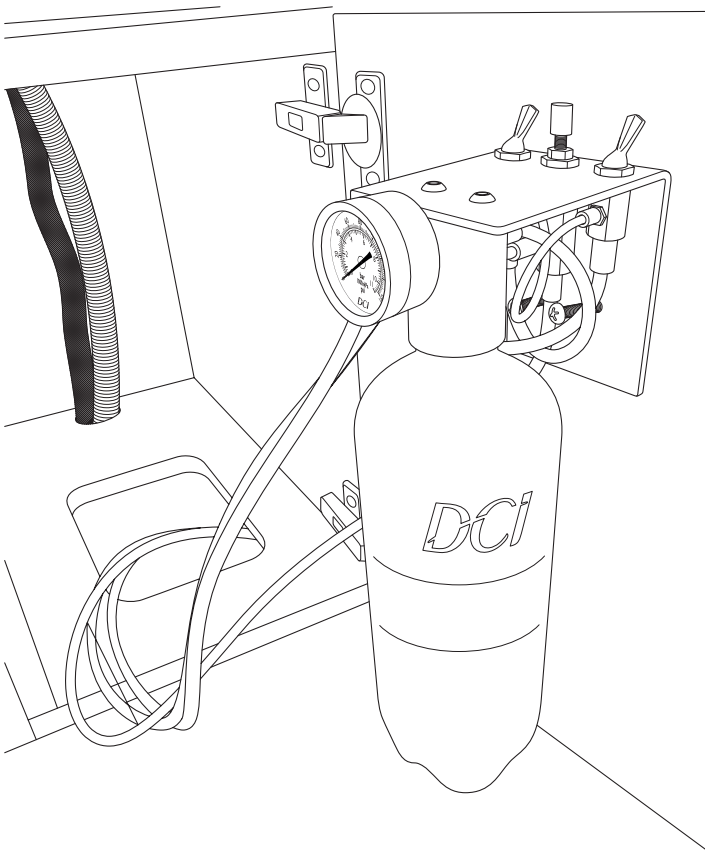
2 Route the Foot Control Tubing to the Utility Center at the left or right side of the cabinet and make connections to the Utility.

ATTACHING THE WATER SYSTEM

1 Using the screws provided, mount the Water System Bracket to the interior wall or door of the center module of the cabinet.

> ⚠ **CAUTION:** Ensure mounting position does not interfere with movement of doors or Support Arms before installing.



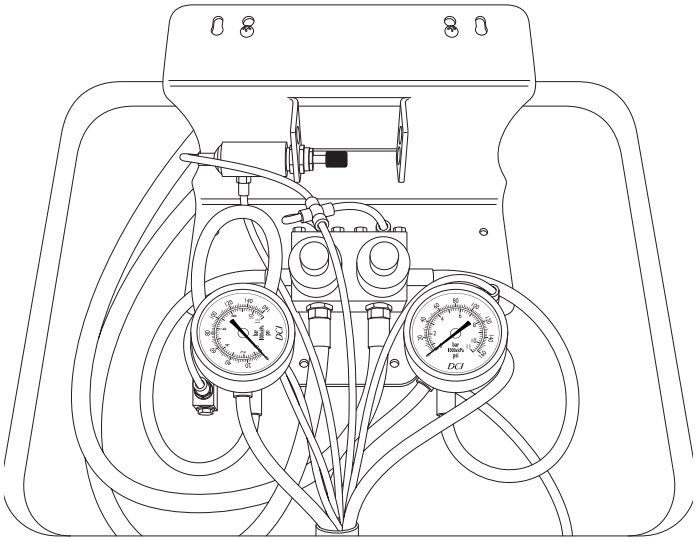


2 Connect the tubings of the Water System to the Umbilical.

FLOOR UTILITIES

LOCATING UTILITIES

Locate Utilities in the operatory according to the dimensions shown for new installations. The Utilities assembly can be attached to any lower cabinet module as shown in the illustration below.



AIR

Pipe: 1/2" N.P.T. Protruding 1" from the floor. Supplied by contractor.
Air supply: Pressure 80-100psi. Air should be free from contaminants.

WATER

Pipe: 1/2" N.P.T. Protruding 1" from the floor. Supplied by contractor.
Water supply: Pressure 40-80psi. Water should be flushed clean before connecting to this equipment.

ELECTRICAL

Pipe: 1/2" conduit with dual receptacle box or greater. Supplied by contractor. Wire box according to code. Top of box should be no higher than shown.
Supply: 115V AC 3-wire, 8 AMP or 230V AC 3-wire, 4 AMP

CENTRAL VACUUM

Pipe: Supplied by contractor. Terminated with 5/8" OD tube protruding 1" from the finished floor.

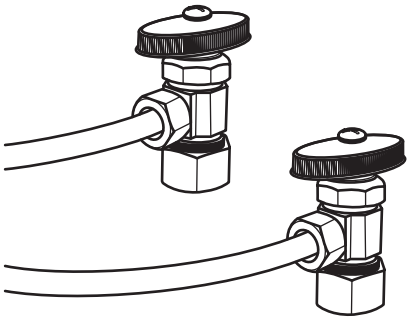
GRAVITY DRAIN

Pipe: 5/8" OD tube protruding 1" from the floor. Place trap in-line and use vented fitting to conform to local codes. Supplied by contractor.

CONNECTIONS AND ADJUSTMENTS

CONNECTING UTILITIES

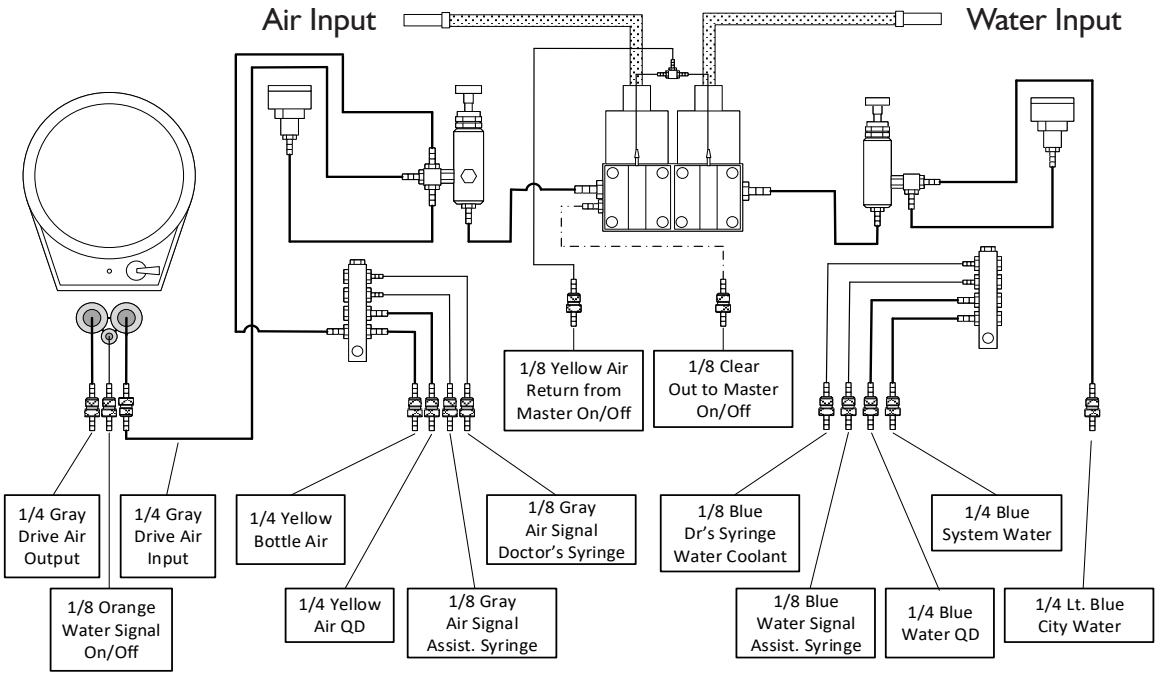
1 Connect the Shut-Offs to the compressed air and Water Supply Valves.



NOTE :

- The Yellow side is for air.
- The air and water lines must be flushed prior to connection to the Shut-Offs.

2 Connect the Umbilical tubings to the appropriate connection points, including Foot Control Rheostat, with supplied Q.D. Swivel Fittings.



MAKING ADJUSTMENTS

See the **"ADJUSTMENTS"** section near the end of the **Instructions for Use** manual for the **Series 4 12 O' Clock Dental Delivery System** to complete the installation. Be sure to check and make any needed adjustments to items in that section.

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