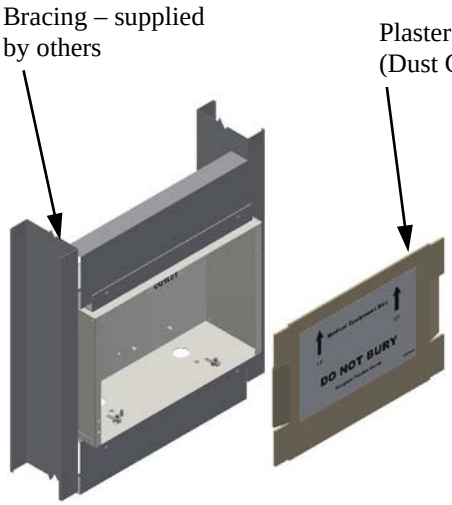
Installation Instructions for CP100, IP100 and NP100 Series Gas Control Panels

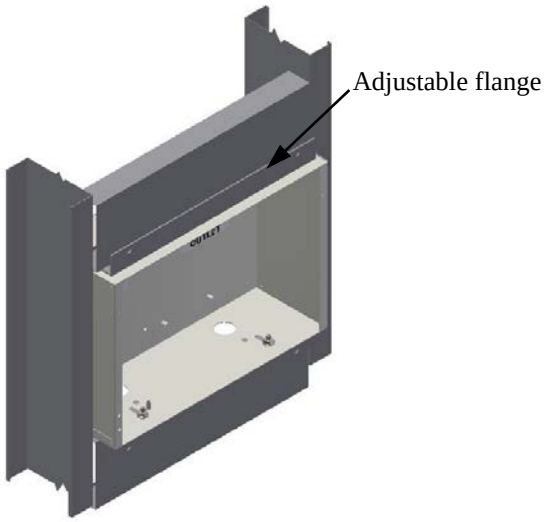
Installation of the Gas Control Panel involves installing the rough-in box and making the necessary piping connections in accordance with NFPA 99.

Warning this device should only be installed by qualified personnel. Installation should not be attempted by anyone not having general experience with the installation of devices of this nature.



Installing and testing the back box

Step #1 – Provide rigid mounting that will support the gas control panel back box on the top and bottom. (Rigid mounting materials are not included with the panel). Temporarily remove the dust cover from the back box so you can see the labels inside the box. Mount the back box so it will be flush or just below the finished wall surface.



Step #1a – Adjustable flanges have been provided on both the top (shown here) and bottom of the back box. Loosen the nuts from the inside of the back box to allow it to be adjusted so it will be flush with or slightly recessed from the finished wall surface then tighten the nuts snug.

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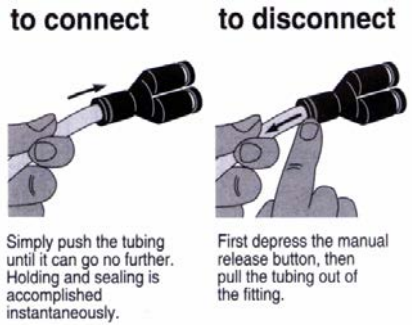
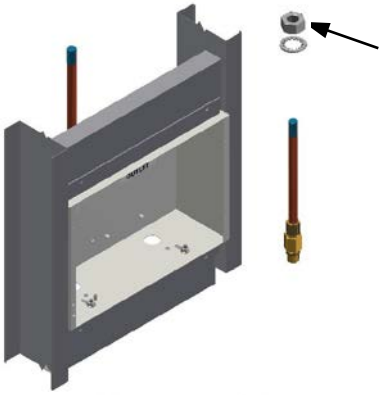
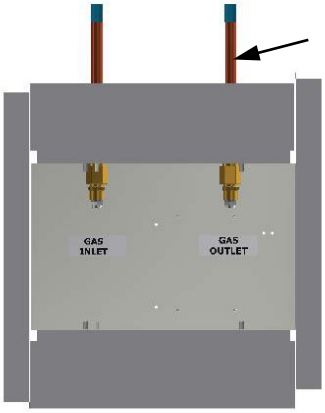


Step #2 – The tubing and fittings provided in this panel should be connected and disconnected by hand – without the use of tools.

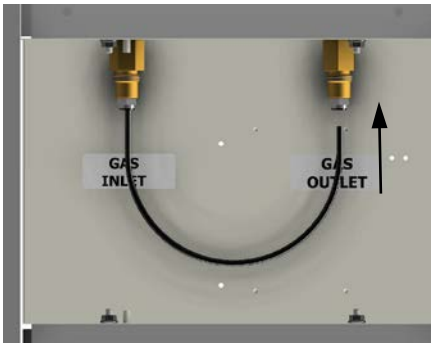
CAUTION – *Wash your hands before handling these connections to ensure that oil, grease, dirt etc. does not contaminate the fittings possibly causing leakage and introducing impurities into the medical gas system. Ensure tubing connections are properly made by tugging on the tubing with slight pressure.*



Step 3 - Install the two gas risers into the top panel of the back box. Slide them up from inside the back box and secure them using the bulkhead mounting nuts and lock washers provided with the risers.



Step 4 - Connect the inlet and outlet copper extension tubes to the gas piping system. Make sure drop is for the proper gas service. Using a purge gas to ensure cleanliness in the tubes, silver braze the joints. **Do not use soft solder!** (See NFPA 99 for recommended silver braze alloys). Conduct heat away from the back box. It is recommended that gas piping system tubing be connected from the outlet copper extension tube to the ceiling and capped, even though a continuation of this system may not be intended at this time.



Step 5 – Dis-connect the black **INLET** tubing from the front panel and connect it to the **INLET** and **OUTLET** riser connections as shown. If the **OUTLET** riser has not been installed, insert the supplied plastic plug into the INLET riser connection. This will allow for the required Initial Pressure test to be performed on the gas piping system for this gas.

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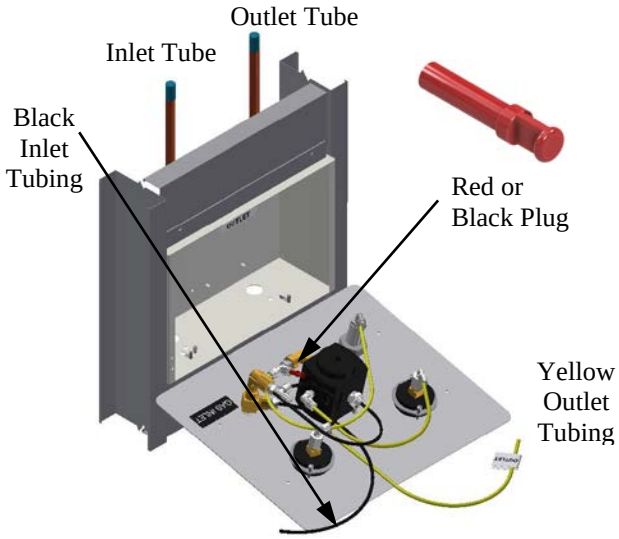
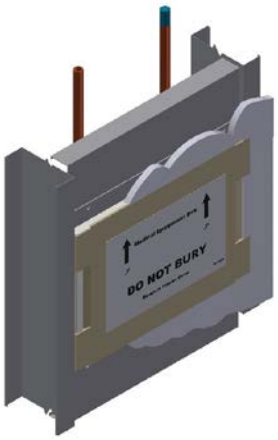


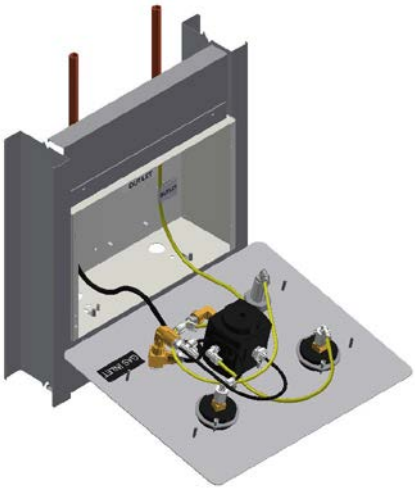
Step 6 – After successful completion of the Initial Pressure test, Dis-connect the black tubing from the INLET and OUTLET risers and re-install into the valve on the back of the front panel. If you have used the plastic plug in the INLET riser, remove it and install it into the tee fitting on the front panel in place of the yellow OUTLET tubing.



Step 7 - Replace the dust cover over the back box and store the front panel assembly in a safe place, maintaining its cleanliness, until the finished wall surfaces have been completed.

Installing the Front Panel

After the wall surfaces have been finished the front panel can be installed.



Step 8 - Install the loose end of the black tube labeled GAS INLET, into the fitting of the INLET riser

Step 9 – If providing gas service to downstream outlets, or if the OUTLET riser has been installed for future use, insert the unconnected yellow tubing labeled GAS OUTLET, into the fitting in the OUTLET riser.

Step 10 - Finished tubing connections should look like this.

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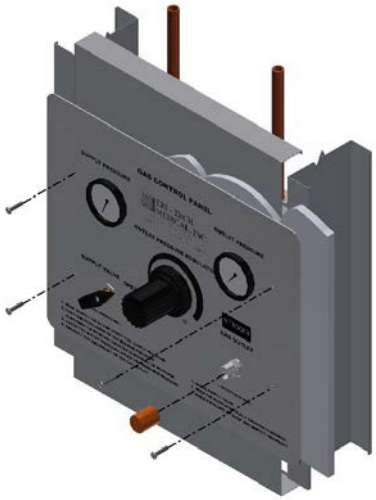
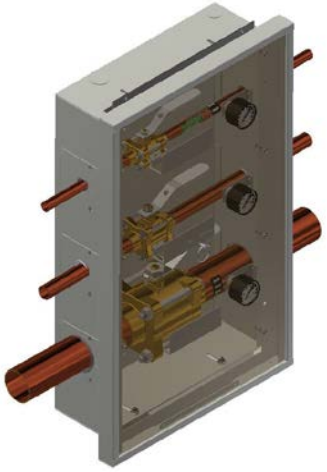


Step 11 – Attach the front panel to the back box (using the 4 long screws provided). Be careful not to pinch or damage tubing. The tubing connectors swivel to ease installation. Remove shipping cap from the gas outlet.



Step 12 – The Gas Control panel should now be ready for testing and use. To restore gas service to the panel, locate and open the zone valve providing gas to the gas control panel.

Step 13 – Use the Supply Valve on the gas control panel to allowl gas flow to the panel and equipment connected downstream of the panel.

Turn up to open.

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Step 14 – A Supply Pressure Gauge (or Inlet Pressure Gauge) is provided to allow monitoring of the pressure being supplied to the gas control panel. The pressure shown on this gauge will match the pressure shown at the zone valve box provided the Supply Valve on the gas control panel is ON or open.

Step 15 – The Outlet Pressure Regulator adjusts or regulates the delivery pressure of the gas. Turning the knob clockwise increases the delivery pressure. Turning the knob counterclockwise decreases the delivery pressure. The regulator is self venting which means a small amount of gas will be allowed to escape through the regulator bonnet when the delivery pressure is decreased.

Step 16 – The Outlet Pressure Gauge displays the delivery or outlet pressure as controlled by the regulator.

Step 17 – The Gas Outlet allows connection of DISS Gas hose assemblies. The outlet connection provides a demand check valve which automatically stops the flow of gas when the hose is disconnected. The Gas Control Panel is now ready for use!

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