

JOHNSON FURNACE INSTRUCTIONS

Bench Furnace #101

The gas supply must be the same as noted on the tags attached to the furnace. If not, correct orifice can be secured from the manufacturer. The gas pressure for natural gas should be between 4 inch and 6 inch water column. For propane gas the pressure should be 11 inch water column.

Periodically the cast iron burner tubes should be removed. Clean the inside and clean the slots at the end of the burner tube.

The hole in the orifice cap should be cleaned when the burner tubes are cleaned.

LIGHTING:

Valves should be closed, handles horizontal. Supply gas to system. Light the end of the pilot tubes. Top hood can be raised for lighting and adjusting pilot tubes (if desired). The pilot flame can be adjusted with the adjustment screw on the shut off valve. Turn the burner valves on, one at a time. Handle would be in vertical position. Check to make sure the burners light. If necessary, adjust the pilot flame. Burner valves can be turned down slightly, but if turned down too far, burner will burn back out of the orifice.

Johnson equipment is designed to give the longest possible service at the lowest maintenance cost. Due to the high temperatures reached by Johnson furnaces certain repairs are required from time to time to keep them in good operating condition. We are listing below pertinent maintenance information.

The burner tubes on these furnaces are slotted on the ends to retain the flame, and care should be taken about striking the ends with soldering irons. These tubes are made of cast iron and will give long service, but when the slots are knocked off, the tubes should be replaced to insure good combustion. The #108 and #118 furnaces are equipped with individual valves for each burner. The #101 and #112 furnaces are equipped with double valves. After considerable use the valve plugs will tighten causing the valves to "freeze". When this happens the complete valve will should be replaced as prompt replacement of the complete valve will avoid gas leakage. Linings for all these furnaces are carried in stock. Lining sets are supplied for those in which both hood and bottom are lined. This set consists of material to be molded in to the furnace body and includes a new angle iron.

Johnson Bench Furnaces are available at SolderWarehouse.com Ph: 814-786-9085; Email: mail@JosephJenkins.com

NOTE: All Johson Gas Industrial Furnaces are factory tested for proper function of all systems and all piping is leak tested.

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