

# ■■■ Franke Little Butler

## ■■■ Installation Guide

### Hot Water Dispensing System, Model Series LB100

#### ■■■ Overview of the system concept

For safety reasons, this hot water dispensing system features a "non pressurized" heating tank. This means that the incoming water is first routed through the valve in the dispensing head, where line pressure feeding the system terminates. When the valve is activated, water is directed down to feed the inlet at the top of the heater tank, displacing heated water up through the spout. When the valve is off, the rest of the system, including the tank, is open to atmosphere (via the spout), making it impossible for the tank to be subjected to stress from an overheating condition.

#### ■■■ Overview of installation

There are two main components to the system, the dispensing head and the heating tank. The dispensing head comes with two 1/4" copper tubes and one Norprene tube. The shorter (12") copper tube is connected to the incoming water supply using the 1/4" - 3/8" connector containing a mesh filter and a 0.55 gallons/min flow control. The longer (18") copper tube is connected to the inlet of the tank using the 1/4" straight connector. The Norprene tube is connected to the outlet of the tank using the 3/8" - hose connector.

#### ■■■ Preparing for the installation

As with any sink related device, it is much easier to mount the dispensing head of this system onto the sink before the sink is mounted into the countertop. A mounting hole of 1 1/8" diameter (standard sink ledge drilling) is required.

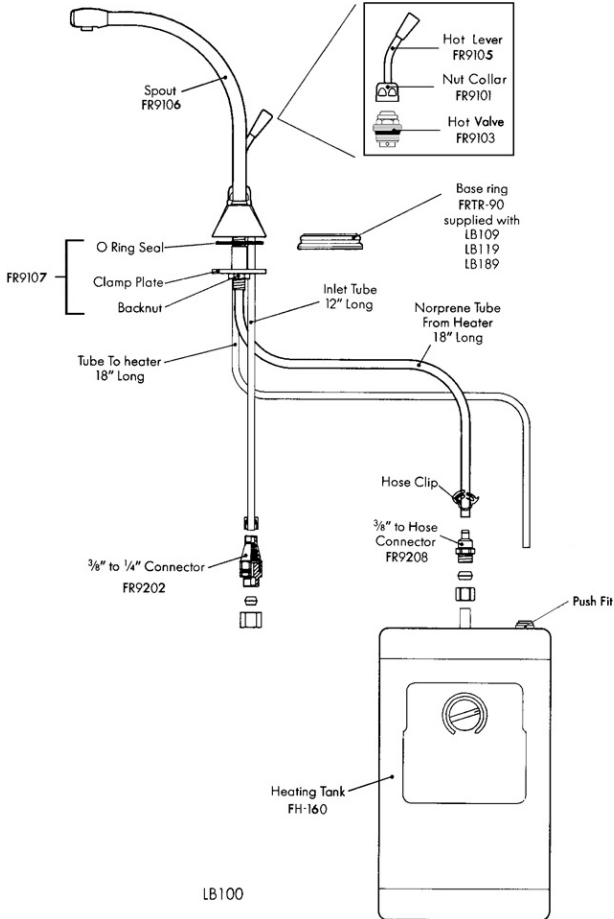
It is always recommended to take the components and locate their optimum positions before starting the installation. This particularly applies to the heating tank as it must be positioned for the connections to the dispensing head, while at the same time avoiding other mechanics under the sink. Unlike most plumbing products, a hot water dispenser includes an electrical system. The heating tank is furnished with a grounded power cord and plug. A grounded outlet for this connection must be provided beneath the sink.

#### IMPORTANT

**Do not plug in the unit until all water connections have been made and the tank is filled completely.**

**The tank must only be used in combination with a dispensing head that does not shut off the tank from atmosphere.**

**If a supply pipe must be drilled for installation of a saddle valve, the electric drill must be grounded.**



### ■■■■ Making the supply provision

Provide a branch compression connection for a  $\frac{3}{8}$ " supply tube. This can be done with a conventional tee, or where the code permits, with the saddle valve enclosed with the tank. If a conventional tee is used, a specific shut-off valve for this system should be used with it.

### ■■■■ Mounting the dispensing head

The copper tubes are coiled for packing and must be carefully straightened before installation. Position the base ring (if supplied) and O ring and feed the tubes and shank through the hole in the sink ledge or counter. Assemble the clamp plate and backnut (hexagon to the top for thin sinks) fingertight. Turn the dispensing head and the spout until the handle and spout are in the required position for use and fully tighten the backnut, this will lock the spout in position. Radial adjustment of the handle position is possible by loosening the hexagonal shield and rotating the handle to a new setting.

### ■■■■ Mounting the heating tank

The heating tank must be located on a back or side wall below the sink. Determine the best position to enable the tubing connections to be made and mark the position for the mounting bracket (approximately 2" below the top of the tank). Attach the mounting bracket to the wall and hang the tank in position.

### IMPORTANT

**During installation the tank should remain unplugged with the thermostatic control in the "off" position. The tank must be filled with water before power is connected. A "dry start" will void the warranty.**

### ■■■■ Making tubing connections

Connect the shorter (12") copper tube to the incoming supply by means of the  $\frac{3}{8}$ " -  $\frac{1}{4}$ " compression connector. This connector houses a mesh filter and a flow controller. Connect the longer (18") copper tube to the tank fill tube at top right hand corner of the tank using the  $\frac{1}{4}$ " -  $\frac{1}{4}$ " straight compression connector.

Connect the Norprene tube to the tank outlet tube at the top centre of the tank using the  $\frac{3}{8}$ " - hose connector and hose clip provided.

### IMPORTANT

**Avoid kinking tubes during installation as the resulting restrictions could reduce flow and cause a malfunctioning of the expansion chamber.**

**Do not use pipe sealing compounds on any connections. These can foul the internal mechanics and may cause objectionable taste and odour.**

**Plumbing connections must comply with all sanitary, safety and plumbing codes.**

### ■■■■ Fill the system – DO NOT YET PLUG IN

Turn on supply valve. Turn on the dispensing head valve and hold on until water flows from the end of the spout. This will take a little time as the tank (capacity two quarts) has to be filled. Check all connections.

### ■■■ Plug in and turn on

Plug in to electrical supply and turn control to "ON". Depending on the temperature of the incoming water it will take from 10 to 15 minutes for the water to reach it's optimum, near boiling, temperature. A "perking" sound from the tank and water dripping from the spout near the end of each heating cycle is normal.

### IMPORTANT ELECTRICAL REQUIREMENTS

**Do not, under any circumstances, remove the power supply grounding prong.**

For your personal safety, this appliance must be grounded. This appliance is equipped with a power supply cord having a three prong grounding plug. To avoid possible shock hazard, the cord must be plugged into a mating three prong grounding type wall receptacle. A 15 or 20 Amp circuit is acceptable. If a mating wall receptacle is not available, it is the personal responsibility and obligation of the customer to have a properly grounded three prong wall receptacle installed by a qualified electrician.

**An extension cord should not be used with this appliance, such use may result in a fire, electrical shock or other personal injury.**

### ■■■ Seasonal shut-down

To prevent damage to the storage tank when the dispenser is exposed to freezing temperatures, tank water must be drained. Proceed as follows:-

Unplug unit, turn thermostat knob to "OFF", turn on faucet and run until water is cold.

Place a suitable container under the tank and undo the drain plug at the base of the tank.

Let all the water drain and replace plug. Do not overtighten.

**Do not plug appliance into power supply if the tank is empty.**

### ■■■ Troubleshooting

Should your dispenser not work correctly, check the list below before calling for service. The following things are not covered by the warranty.

#### **Water is not hot:**

Check if dispenser is plugged in.

Turn temperature control knob clockwise as far as possible. Test the temperature again after 15 minutes.

Check if fuse is blown or circuit breaker is open.

#### **Hot water continuously drips or sputters from spout:**

For safety reasons this Faucet may drip or splutter after use. This venting prevents a build-up of pressure in the heating tank. If this becomes excessive;

Turn the control knob counter-clockwise to lower temperature.

Check the tubes connecting the faucet to the storage tank are not kinked.

#### **Water does not flow:**

Make sure the valve on water supply is open.

Check if supply tube is kinked.

Check if filter screen is clogged.

#### **Water boils or vapor appears:**

Lower temperature setting.

If lowering of the thermostat setting does not stop the boiling, unplug the power supply cord and contact an authorized service office.