Installation / Care / Use Manual

Original Instructions

Models: FD70010LF2YJO, FD70010SF2YJO, FD70010TF2YJO

Description

Refrigerated Drinking Fountain (Cooler) delivers chilled, clean potable drinking water. Water Cooler houses the refrigeration and delivers a steady stream of water for direct drinking at the press of the pushbutton.

Ratings

- Electrical: 230Vac, 50Hz, (See nameplate for Amperage), 1 phase.
- Ambient Air Temperature: 50-100.4 °F (10-38 °C).
- Water Pressure: 20-100 psig (0.14-0.69 MPa).
- Maximum Water Temperature: 90 °F (32 °C).
- Refrigerant: HFC-R134a
- Ingress Protection: IP21
- For Indoor Commercial Use only.
- Water Inlet: 3/8”O.D. unplated copper tube.
- Waste Water Outlet: 1-1/4” O.D. tube

Definitions

DANGER – Indicates death or serious injury will result if proper precautions are not taken.
WARNING – Indicates death, serious injury or property damage can result if proper precautions are not taken.
CAUTION – Indicates some injury or property damage may result if proper precautions are not taken.

Authorized Service Personnel – Factory trained personnel or personnel having working knowledge of electrical, plumbing and machine (appliance) maintenance procedures.

Safety

DANGER

- Please read these instructions completely before starting the installation or performing any service. Failure to follow the instructions and safety precautions in this manual can result in serious injury or death.
- After installation, keep these instructions in a safe location for future reference.
- Electric supply must be identical in voltage, cycle, and phase to that specified on nameplate.
- Electrical supply must have Ground Fault Circuit Interrupter (GFCI) protection.
- A means for disconnecting electrical supply to the unit must be incorporated in the fixed wiring in accordance with wiring rules. This is to allow electrical disconnection of the unit from electrical supply after installation.

WARNING

- For use with clean, clear potable drinking water only. Do not use with water that is microbiologically unsafe or of unknown quality without adequate disinfection before the system.
- Installation and connection to water and electrical mains must be in compliance with local and national laws.
- All Installation and Service work must be performed by an authorized service personnel.

CAUTION

- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory, or mental capabilities or lack of experience and knowledge if they have been given supervision or instructions concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- To prevent a metallic taste or increased metal content in the water due to an electrolysis process caused by electrical feedback from the grounding of electrical equipment to water supply and water waste mains, connect to these mains using non-conductive materials. The provided non-metallic In-line Strainer meets this requirement.

1000003125 (Rev. A - 12/15)

Installation

For correct and safe installation, please read these instructions completely.

DANGER

- All Installation work must be performed by an authorized service personnel.
- Disconnect electrical supply serving the Installation area to reduce risk of electrocution.
- Unit not suitable for installations where water jets could be used.

WARNING

- Shut off water supply serving the Installation area to reduce risk of water damage.
- Ensure proper ventilation by maintaining clearance from cabinet louvers to wall on each side of Cooler as specified in Rough-In.
- Never wire compressor directly to electrical supply.
- Do not solder tubes inserted into the In-line Strainer as damage to the o-rings may result.
- Thoroughly flush all water lines and fittings of all foreign matter before connecting to Cooler.
- Warranty is void if the plumbing kit or glass filler is not specified for use by the Manufacturer for this particular model.
- Warranty is void if Installation is not made in accordance with current Manufacturing instructions.

CAUTION

- Hose-sets are not to be used for connecting to water mains.
- If inlet pressure is above 100 psig (0.69 MPa), a pressure regulator must be installed in water supply line. Any damage caused by reason of connecting this product to water supply line pressure outside its rated pressure, is not covered by warranty.
- This cooler is manufactured in such a manner that it does not in any way cause taste, odor, color, or sediment problems. If a taste, odor or sediment problem is prevalent, try installing our water filter on the supply line.
- Tools/Items required but not provided.
    - Water Shut-off Valve with 3/8” (9.5mm) compression outlet.
    - 1-1/4" (31.8mm) Waste Trap (non-metallic)
    - Safety Glasses
    - Protective Gloves
    - 5/16" (7.9mm) Hex Driver or Flathead Screwdriver
    - C-13 Modular International Power Cord Set

Installation: Cooler Mounting

1. Select installation location. Installation location must be a flat surface. Installation location should ensure proper ventilation by maintaining 4" (102mm) minimum clearance from cabinet louvers to wall.
2. Remove front panel (Item 26) by unscrewing (2) 5/16" (7.9mm) Hex Head screws. Set panel aside.
3. Installation area must also include water supply, electrical supply and suitable drain. Water, drain and electrical supply systems must comply with local code requirements.

Installation: Water Line connection

1. Ensure Mains Water Supply has Water Shut-off Valve with 3/8” (9.5mm) compression outlet.
2. Connect loose end of supplied 3/8” (9.5mm) unplated copper tube to Water Shut-off Valve. See Figure 1.
    - NOTE: If 3/8” (9.5mm) copper tube must be cut for proper fit, remove all burrs from the outside of tube and re-flush before use.
3. Install waste trap. Remove the slip nut and gasket from the waste trap and install them on the Cooler waste line making sure that the end of the waste line fits into the waste trap. Assemble the slip nut and gasket to the trap and tighten securely.
4. Turn on building water supply and open Water Shut-off Valve. Check all connections for leaks and correct any found.

Installation: Electrical connection

1. Rotate fan to insure proper clearance and free fan action.
2. Connect modular (C-13) end of International Power Cord Set (sold separately) into Power Inlet on unit and ensure plug-end reaches electrical outlet. Do not plug into electrical outlet!

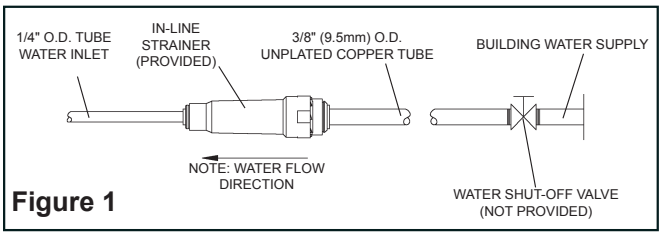
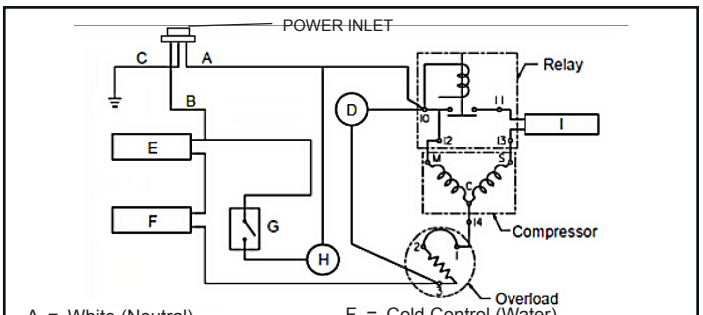


Figure 1



A = White (Neutral)
B = Black (230Vac)
C = Ground (Earth)
D = Fan
E = Freeze Control (when provided)
F = Cold Control (Water)
G = Hot Tank Switch (When Provided)
H = Hot Tank (when provided)
I = Capacitor (when provided)

Figure 2

Rough-In: SCWT14A

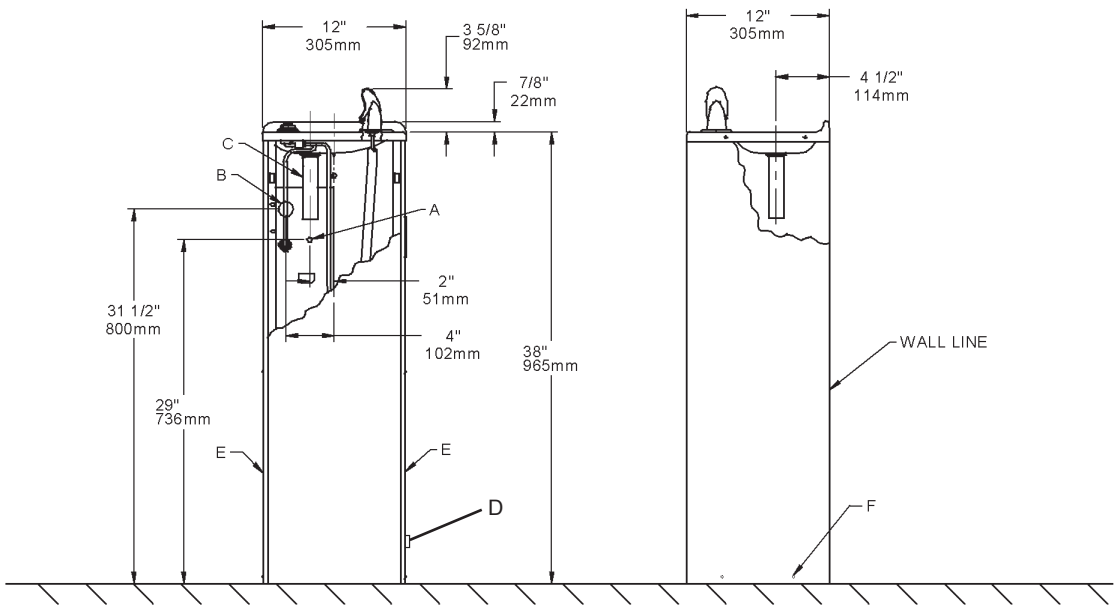


Figure 3

A = Water Mains Supply, 3/8" (9.5mm) O.D. compression outlet of Shut-off Valve (not provided) to be 1-1/2" (38mm) from Wall
B = Waste Outlet, 1-1/4" (31.8mm) O.D. Drain Tube
C = 1-1/4" (31.8mm) Trap (not provided)
D = Power Inlet. Electrical Mains Supply Duplex Outled, 3-wire in Recessed Box. Must have Ground Fault Circuit Interrupter (GFCI) protection
E = Ensure proper ventilation by maintaining 4" (102mm) minimum clearance from cabinet louvers to wall
F = To level unit, loosen screws to adjust base for contact with floor. Tighten screws after unit has been leveled.

Operation: Start-Up

1. Turn on the building water supply and check all connections for leaks.
2. Purge air from all water lines by activating pushbutton with your hand.
3. Recheck all water and drain connections with water flowing through system.
4. Rotate fan to ensure proper clearance and free fan action.
5. Connect plug-end of International Power Cord Set (sold separately) into electrical outlet.
6. After verifying that the water cooler is properly connected and operational, replace and reattach cooler front panel (Item 26) by tightening (2) screws.

Service

For proper and safe servicing, please read these instructions completely.

DANGER

- All Service and Maintenance must be performed by an authorized service personnel.
- Disconnect electrical supply to the unit before any service work to reduce risk of electrocution.
- Shut off water supply serving the unit before any service work to reduce risk of water damage.

CAUTION

- Tools/Items required but not provided, for Servicing:
  - Safety Glasses
  - Protective gloves
  - 5/16" (7.9mm) Hex Driver or Flathead Screwdriver

Service: Adjustments

1. Temperature Control: Factory set for 50ºF ± 5º (10ºC ± 2.8º) water under normal conditions. To adjust water temperature, remove front panel (Item 26) by unscrewing (2) 5/16" (7.9mm) Hex Head screws. Set panel aside. Turn screw on cold control (Item 15) clockwise for colder, counter clockwise for warmer. See Figure 10.
2. Water Stream Height: Stream height is factory set at 35 psig (0.24MPa). If supply varies greatly from this, remove items 1 and 2 and adjust screw on item 4. Clockwise adjustmentwill raise stream height and counter-clockwise adjustment will lower stream. For best adjustment, stream should hit basin approximately 6-1/2" (165mm) from bubbler. See Figure 5 and 10.
3. Water coming out of Bubbler continuously: When this occurs at the end of the compressor cycle, turn the cold control warmer (Item 15) counter-clockwise 1/4 of a turn. See Figure 10.

Service: Inspection/Cleaning

- Inspect Cooler twice each year for proper operation and performance.
- Inspection of the unit will require disconnecting electrical supply, removal of panels, etc. and reassembly and return to service practices.

1. Cleaning: Warm, soapy water or mild household cleaning products can be used to clean the exterior panels. Extra caution should be used to clean the mirror finished stainless steel panels. They can be easily scratched and should only be cleaned with mild soap and water or Windex glass cleaner and a clean, soft cloth. Use of harsh chemicals or petroleum based or abrasive cleaners will void the warranty.
2. Bubbler: Mineral deposits on the orifice can cause water flow to spurt or not regulate. Mineral deposits may be removed from the orifice with a small round file not over 1/8" (3 mm) diameter or small diameter wire.
   - **CAUTION**: DO NOT file or cut orifice material. Care must be taken not to damage the orifice(s)
3. Condenser Fan Motor: Confirm condenser fan turns freely. If the condenser fan does not spin freely, have an authorized service personnel replace.
4. Ventilation: Cabinet louvers and condenser fins should be periodically cleaned with a brush, air hose or vacuum cleaner. Cleaning should be done twice each year or more frequently if needed due to environment. Excess dirt or poor ventilation can cause no cold water and compressor cycling on the compressor overload protector.
5. Water Flow: Confirm proper water flow. If water flow is slow, inspect filter or inline strainer for restriction. Replace filter cartridge if required. Disassemble inline strainer and clean if required See Figure 6.
6. Lubrication: Motors are lifetime lubricated.
7. Actuation of Quick Connect Water Fittings: Cooler is provided with lead-free connectors which utilize o-ring water seal. To remove tubing from the fitting, relieve water pressure, push in on the gray collar before pulling on the tubing. To insert tubing, push tube straight into fitting until it reaches a positive stop, approximately 3/4" (19mm). See Figure 7.

Service: Inspection/Replacement

- Inspect Cooler twice each year for proper operation and performance.
- Inspection of the unit will require disconnecting electrical supply, removal of panels, etc. and reassembly and return to service practices.

1. Bubbler: To remove the bubbler, first disconnect the electrical supply. Remove the Front Panel by removing (2) screws. To remove the bubbler, loosen locknut from the underside of the basin and remove the tubing from the quick connect fitting (see Figure 7 for actuation of Quick Connect Fittings). When installing replacement bubbler, tighten nut only to hold parts snug in position. Do Not Overtighten. After servicing, replace the front panel and two (2) screws.
2. Cleaning Strainer: Restricted water flow may be caused by clogged screen. Remove plug and screen. Clean screen and replace. Lubricate O-Ring with food grade pharmaceutical mineral oil. Do not overtighten plug or fittings. See Figure 6.

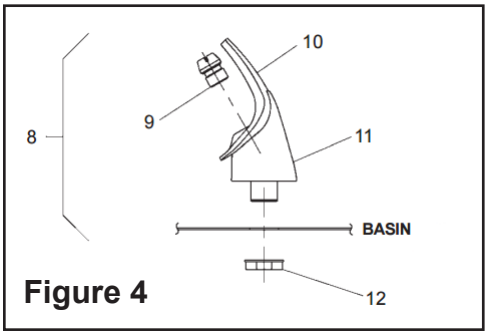


Figure 4

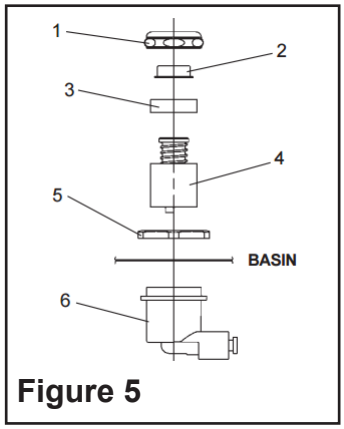


Figure 5

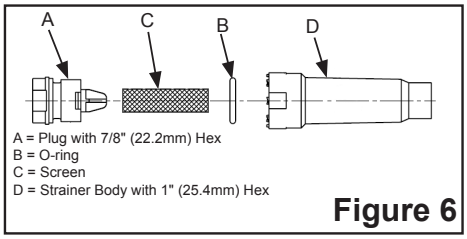


Figure 6

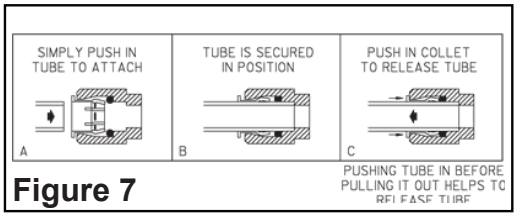
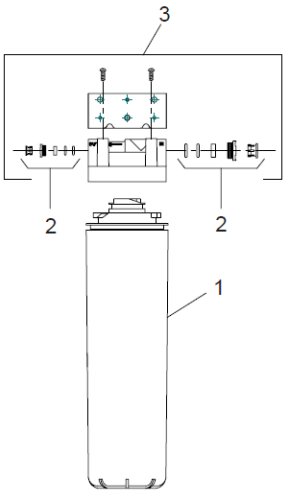


Figure 7



Replacement Parts: Filter Parts List

Item No.	Part No.	Description
1	51299C	Filter Assy - 1500 Gallon
2	98926C	Kit - Filter Head Fitting includes John Guest Fitting & 3/8" Elbow Fitting
3	51469C	Assy - Filter & Bracket includes Fltr Head/Mtg Bkt/John Guest Ftgs/Screws

Figure 8

Replacement Parts: 230V-50Hz Parts List

Item No.	Part No.	Description
1	40089C	Cover
2	40048C	Button
3	15005C	Retainer Nut
4	61313C	Regulator
5	40169C	Hex Nut
6	50986C	Holder Regulator
7	22543C	Basin & Drain Assy
8	56073C	Bubbler Assy
9	40322C	Orifice Assy
10	56011C	Housing Assy
11	55997C	Pedestal
12	75580C	Locknut
13	55996C	Strainer
14	66810C	Evaporator Assy
15	35839C	Cold Control
17	31430C	Motor-Fan
18	30664C	Blade-Fan
19	70018C	Nut (Motor Mtg.)
20	20282C	Bracket-Fan Motor
21	50144C	Grommet - Compressor Mtg.
22	19037000	Clip - Compressor Mtg.
23	66202C	Drier
24	66508C	Heat Exchanger Assy
25	66305C	Condenser
26	21958C	Front-Pnl (Almond)
	21482C	Front-Pnl (Sandalwood)
	20460C	Front-Pnl (Stainless Steel)
	21959C	Front-Pnl (Light Grey)
27	21487C	Cabinet (Almond)
	21486C	Cabinet (Sandalwood)
	21239C	Cabinet (Stainless Steel)
	28196C	Cabinet (Light Grey)
*28	1000002147	Compressor Serv. Pak
29	35768C	Cover - Relay
30	36222C	Overload
31	36221C	Relay
32	56092C	Tubing - Poly (Cut to Length)
33	100322740560	Gasket (GF)
34	15009C	Bubbler Nipple Assy. (GF)
35	75706C	Stud - Compressor Mtg.
36	50189C	Shroud - Fan
37	98751C	Kit - Relay/OverLoad/Cover
38	35826C	Power Inlet
NS	35827C	Cord-Power (230V/50Hz)
NS	31455C	Power Cord "JB"
NS	31457C	Power Cord "JD"
NS	31458C	Power Cord "JJ"
NS	31459C	Power Cord "JS"
	70682C	Tee 1/4"
	75583C	Elbow - 5/16" x 1/4"
	27115C	Cover-Rear (Almond)
	27117C	Cover-Rear (Sandalwood)
	27116C	Cover-Rear (Stainless Steel)
	27361C	Cover-Rear (Light Grey)

*Includes Relay & Overload. If under Warranty, replace with same Compressor used in original assembly.
NOTE: All correspondence pertaining to any of the above water cooler or orders for repair parts MUST include Model number and Serial number of cooler, name and part number of replacement part.

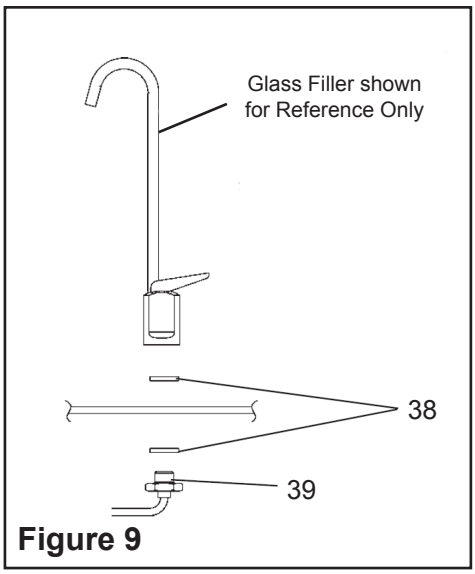


Figure 9

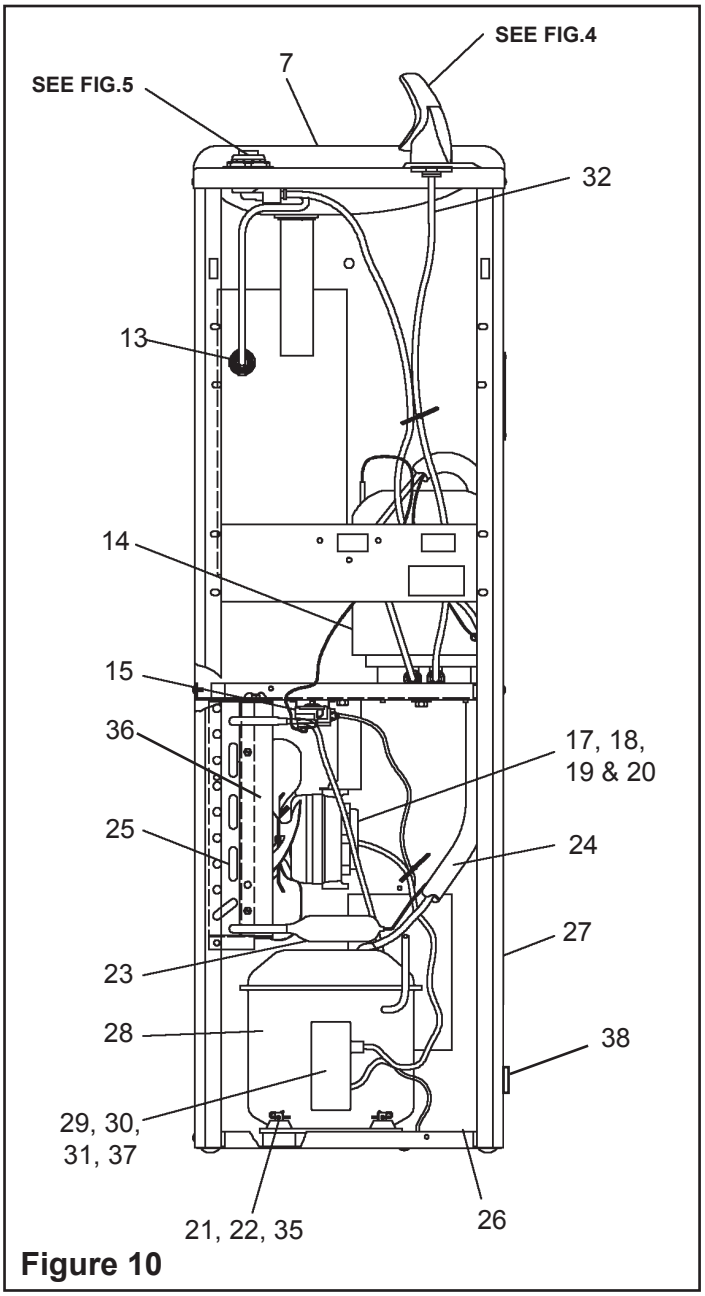


Figure 10