ELKAY®

Enhanced

INSTALLATION & USE MANUAL

LZ™ Series Bottle Filling Stations & Coolers
REDUCE HEIGHT BY 3 INCHES FOR INSTALLATION OF CHILDREN'S ADA COOLER

Legend:
A = Recommended water supply location 3/8 O.D. unplated copper tube connect stub with shut off (by others) 3 in. (76 mm) maximum out from wall
B = Recommended location for waste outlet 1-1/4" O.D. drain stub 2 in. out from wall
C = 1-1/4" trap not furnished
D = Electrical supply (3) wire recessed box duplex outlet**
E = Insure proper ventilation by maintaining 6" (152 mm) (min.) clearance from cabinet louvers to wall.
F = 7/16 bolt holes for fastening unit to wall
**New installations must use ground fault circuit interrupter (GFCI)
Note: It is highly recommended that the circuit be dedicated and the load protection be sized for 20 amps.
HANGER BRACKET INSTALLATION

1) Remove hanger bracket fastened to back of cooler by removing one (1) screw
2) Mount the hanger bracket as shown in Figure 1 (Pg. 2)
   **NOTE:** Hanger Bracket MUST be supported securely. Add fixture support carrier if wall will not provide adequate support. Anchor hanger securely to wall using all six (6) 1/4 in. dia. mounting holes.
   **IMPORTANT:** 5-7/8 in. (150mm) dimension from wall to centerline of trap must be maintained for proper fit.

INSTALLATION OF COOLER

3) Hang the cooler on the hanger bracket. Be certain hanger bracket is engaged properly in the slots on the cooler back as shown in Figure 1 (Pg. 2).
4) Remove the four (4) screws holding the lower front panel at the bottom of the cooler (See Fig 7, Pg.5). Remove the front panel by pulling straight down and set aside.
5) Secure cooler frame to wall by installing (2) screws and washers (not supplied). (See Fig. 2, Pg. 4). Make sure the screws engage in a structural member.
6) Connect the supply water to the filter inlet tube.
7) Install trap. Remove the slip nut and gasket from the trap and install them on the cooler waste line making sure that the end of the waste line fits into the trap. Assemble the slip nut and gasket to the trap and tighten securely.
   **IMPORTANT:** If it is necessary to cut the drain, loosen the screw at the black rubber boot and remove tube, check for leaks after re-assembly.

BOTTLE FILLER INSTALLATION

8) Remove two (2) mounting screws with 5/32" Allen wrench holding bottle filler to wall mounting plate (See Fig.8, Pg. 5). Note do not discard mounting screws, they will be needed to secure bottle filler to wall mounting plate.
9) Remove wall mounting plate from Bottle Filler (see Fig.8, Pg. 5). Place wall mounting plate against wall on top of basin. Center the wall mounting plate side to side with the basin. Mark the six (6) mounting holes with a pencil. Place tape over wiring harness connection on top of cooler to prevent debris from falling into Connection.
10) Remove wall mounting plate from wall. **NOTE:** Mounting plate MUST be supported securely. Add fixture support carrier if wall will not provide adequate support.
11) Install wall mounting plate to wall using six (6) 7/16" obround mounting holes (mounting bolts not included) (See Fig.8, Pg. 5). Use appropriate fasteners for your wall type.
12) Install gasket on bottom of bottle filler tower with gasket support bracket & (2) screws. (See Fig. 4., Pg. 5)
13) Route 3/8" tubing through the opening in the bottle filler gasket and plug into bulkhead fitting in basin. Route the wiring harness through the gasket and plug into the connector on the top of the basin.
14) Place bottle filler on four (4) hooks on the mounting plate installed on wall. Make sure round boss in gasket fits in hole of basin. (See Fig. 8, Pg. 5).
15) Plug electrical cord into outlet on wall.
16) Remove filter from carton, remove protective cap, attach filter to filter head by firmly inserting into head and rotating filter clockwise. Ensure that blue label can be read when filter is installed. (Fig. 12, Pg. 7.)
17) Turn water supply on and inspect for leaks. In both cooler and bottle filler. Fix all leaks before continuing.
18) Once power is applied to the cooler the GREEN LED light will illuminate on the bottle filler showing good filter status along with the LCD Bottle Counter.
19) Verify proper dispensing by placing cup, hand, or any opaque object in front of sensor area and verify water dispenses. Note: the first initial dispenses might have air in line which may cause a sputter. This will be eliminated once all air is purged from the line.
20) Once unit tests out, install Lower Panel back on water cooler(s). Units are now ready for use.

Instructions For Replacing Filters

1) Remove lower cover on cooler by removing (4) screws (See Fig.7, Pg. 5).
2) Turn off water supply; dispense water to relieve pressure.
3) Remove power by unplugging cooler.
4) Turn used filter counterclockwise 1/4 turn to remove from filter head.
5) Remove cap from new filter and use to seal used filter.
6) Insert new filter into existing filter head and turn fully clockwise. Make sure you can read the label on the front of the filter once it is installed. (See Fig.12 on Pg. 7).
7) Plug in unit to restore power.
8) Turn on water supply and run a minimum of two gallons of water through the filter to purge air any fine carbon particles from filter. Also run water through bottle filler
   **Note:** Filter status light will automatically reset once new filter is installed.

Instructions To Access Programming Button

1) Remove lower cover on refrigerated unit by removing (4) screws (See Fig.7, Page 5.
2) Button is located in lower right corner of unit (See Fig. A, Pg. 3).
Secure cooler frame to wall by installing (2) screws and washers (not supplied).

**FIG. 2**

Lay gasket along back of bottle filler mounting plate. Align BF and lay on cooler basin.

**Fig. 4**

Attach the 3/8 water line into the bulkhead fitting. (Gasket removed from bottle filler for clarity)

**Fig. 5**
Connect the bottle filler electrical harness. 
(Gasket removed from bottle filler for clarity)

**Fig. 6**

---

**Fig. 7**

---

**Fig. 8**

---

**BOTTLE FILLING UNIT**
115V Refrigerated Wiring Diagram with Alpha/Numeric Display

**Enhanced Bottle Filling Station Electrical Diagram**

- **Fig. 9**
  - IR Board
  - Filter NFC Board
  - Energy Save Relay
  - Cold Control
  - Bubbler Solenoid
  - Control Board Assembly
  - Bottle Filler Solenoid

- **Fig. 10**
  - Note: Screw the locknut hand tight to seal

- **Fig. 11**
  - SUPERSEAL FITTING ASSEMBLY
  - OPERATION OF QUICK CONNECT FITTINGS
    - SIMPLY PUSH IN TUBE TO ATTACH
    - TUBE IS SECURED IN POSITION
    - PUSH IN COLLET TO RELEASE TUBE
NOTE: When installing replacement bubbler and pedestal, tighten nut only to hold parts snug in position. Do Not Overtighten.

Fig. 13

Fig. 14

WATERSENTRY® Filter Detail

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>51300C</td>
<td>Filter Assy - 3000 Gal.</td>
</tr>
<tr>
<td></td>
<td>1000005214</td>
<td>Kit - Filter Head Fittings includes</td>
</tr>
<tr>
<td></td>
<td></td>
<td>John Guest Fittings &amp; 3/8&quot; Elbow</td>
</tr>
<tr>
<td>2</td>
<td></td>
<td>Filter Bracket/Screws</td>
</tr>
<tr>
<td>3</td>
<td>1000004409</td>
<td>Kit - NFC Board/Cover</td>
</tr>
</tbody>
</table>
Service Instructions

Lower and Upper Shroud
To access the refrigeration system and plumbing connections, remove four screws from bottom of cooler to remove the lower shroud. To remove the upper shroud for access to the pushbars, regulator, solenoid valve or other components located in the top of the unit, remove lower shroud, disconnect drain, remove four screws from tabs along lower edge of upper shroud, unplug two wires and water tube.

Bubbler
To remove the bubbler, first disconnect the power supply. The underside of the bubbler can be reached through the access panel on the underside of the upper shroud. Remove the access panel by removing the retaining screw. To remove the bubbler, loosen locknut from the underside of the bubbler and remove the tubing from the quick connect fitting per the Operation Of Quick Connect Fittings section in the General Instructions. After servicing, replace the access panel and retaining screw.

Switches Behind the Push Bar
The regulator in an EZ cooler is always held fully open by the use of a single regulator nut (See Item 9, Fig. 15). Water is not dispensed until the pushbar is depressed to activate a switch which then opens a solenoid valve.

To remove sidebars, from the inside compress the flared tabs and pull out carefully. To reinstall side pushbars, the front of the pushbar is inserted first. While keeping the switch depressed, snap the rear of the pushbar into position.

Cleaning

Stainless Steel
- General cleaning: use an ordinary mild detergent and soft cloth, rinse and towel dry.
- Steel soap pads should never be used; particles can adhere to a stainless steel basin surface and will eventually rust.
- Light scratches are normal for stainless steel basins; over time they will blend into the uniform finish pattern.

Plastic Components
- General cleaning: use an ordinary mild detergent and soft cloth, rinse and towel dry.
- Wiping the surface clean to remove debris or build up will not hurt the antimicrobial properties.

Temperature Control
- Factory set at 50°F (+/- 5°F) under normal conditions. For temperature adjustments, refer to sticker on left side of top bar.

Stream Height Adjustment

VIEW OF UNDERSIDE OF BASIN SHROUD

Stream Height Adjustment Location

Fig. 15
<table>
<thead>
<tr>
<th>Action</th>
<th>Sub Menu/Action</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LED</td>
<td>Momentary</td>
<td></td>
</tr>
<tr>
<td>Sat</td>
<td>Momentary</td>
<td></td>
</tr>
<tr>
<td>Sun</td>
<td>Momentary</td>
<td></td>
</tr>
<tr>
<td>Min</td>
<td>Momentary</td>
<td></td>
</tr>
<tr>
<td>Filter</td>
<td>No</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Yes</td>
<td></td>
</tr>
<tr>
<td>Energy</td>
<td>Momentary</td>
<td></td>
</tr>
<tr>
<td>Range</td>
<td>1-10</td>
<td></td>
</tr>
<tr>
<td>Bright</td>
<td>25%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>50%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>75%</td>
<td></td>
</tr>
<tr>
<td></td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>EnerSave</td>
<td>Off</td>
<td></td>
</tr>
<tr>
<td></td>
<td>On</td>
<td></td>
</tr>
</tbody>
</table>

- **Programming Instruction**

  - **Depress Button for 3 seconds to activate main menu - release**
  - Cycles thru main menu items 2 seconds each for 2 cycles, then returns to main menu unless selected
  - Selections are saved when the menu is exited

- **Sub Menu / Action**

  - **Info**: Momentary
  - Scrolls through all the settings
  - **Momentary**: Day (Sunday - Saturday)
  - **Momentary**: AM/PM
  - **Momentary**: Hour (12 hour)
  - **Momentary**: Min (0-69 in 5 minute increments)
  - **Filter**: No Filter is OFF, Turns on when selected
  - **Filter**: Yes Filter is ON, Returns to Main Menu
  - **Refrigeration in Low**: Refrigeration in low
  - **Refrigeration in High**: Refrigeration in high
  - **Select Weekday**: Select a weekday
  - **Select Weekend**: Select a weekend
  - **Select Time On**: Select time on
  - **Select Time Off**: Select time off

- **Notes**

  - Turn off filter status and errors
  - Filter status has default ON
  - Returns to Main Menu
  - Turn off power to E/S Relay sets bottle fill time to 1.5 gpm
  - Refrigeration in Low
  - Refrigeration in High
  - No Filter is OFF
  - Yes Filter is ON
  - Select a weekday or weekend
  - Select time on or off

- **End Action**

  - Returns to Main Menu

- **Set time**

  - **Momentary**: Use push button to select the day on the display
  - **Momentary**: Use push button to select AM or PM
  - **Momentary**: Use push button to select the hour
  - **Momentary**: Use push button to select the minute

- **Filter**

  - No Filter is OFF
  - Yes Filter is ON

- **Refrig**

  - No Refrigeration in Low
  - Yes Refrigeration in Low

- **Range**

  - 1-10

- **B-Light**

  - 25%
  - 50%
  - 75%
  - 100%

- **EnerSave**

  - Off
  - On

- **Function**

  - Select Off
  - Select On
## Enhanced EZH2O Error Codes

<table>
<thead>
<tr>
<th>Error Code</th>
<th>Error Description</th>
<th>Corrective Action</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Bottle filler area obstructed</td>
<td>• Remove obstruction. • Clean lens on IR sensor • Unplug unit for at least 30 seconds and restart • If error repeats, replace IR sensor</td>
</tr>
<tr>
<td>E013</td>
<td>Missing or Incompltible Filter</td>
<td>• Check that filter is installed correctly (label facing forward, white tag facing back) • Unplug unit for at least 30 seconds and restart • Replace filter • Replace filter head assembly with repair kit • If error repeats, contact certified service professional</td>
</tr>
<tr>
<td>E013 &amp; E014</td>
<td>Missing NFC Board</td>
<td>• Unplug unit for at least 30 seconds and restart • Verify cable connector is plugged into NFC board on filter head assembly • Replace filter head assembly with repair kit • If error repeats, contact certified service professional</td>
</tr>
</tbody>
</table>
Pictured is unit only without bottle filler.

Note: Danger! Electrical shock hazard. Disconnect power before serviceing unit.

Uses HFC-134A refrigerant
# 115V Parts List

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>28401C</td>
<td>Hanger Bracket</td>
</tr>
<tr>
<td>2</td>
<td>000001337</td>
<td>Basin - Stainless Steel</td>
</tr>
<tr>
<td>3</td>
<td>36216C</td>
<td>Wiring - Front/ Side Push Bar</td>
</tr>
<tr>
<td>4</td>
<td>36322C</td>
<td>Compr - Service Pak 115V EMIS70HHR</td>
</tr>
<tr>
<td>5</td>
<td>56092C</td>
<td>Tube - Poly (72&quot;)</td>
</tr>
<tr>
<td>6</td>
<td>56229C</td>
<td>Assy - Shroud - Upper (Front Side Push)</td>
</tr>
<tr>
<td>7</td>
<td>66703C</td>
<td>Drier</td>
</tr>
<tr>
<td>8</td>
<td>1000001877</td>
<td>Kit - Drain Replacement (Bottle Filler) (Bracket, Tube, Fitting, Clamp)</td>
</tr>
<tr>
<td>9</td>
<td>1000004564</td>
<td>Kit - Regular/ Holden/Nut</td>
</tr>
<tr>
<td>10</td>
<td>1000004572</td>
<td>Kit - Solenoid Valve/ Regulator Assembly</td>
</tr>
<tr>
<td>11</td>
<td>56073C</td>
<td>Kit - Flexi Bubbler&quot;O&quot;-Ring/Nut</td>
</tr>
<tr>
<td>12</td>
<td>98734C</td>
<td>Kit - Pushbar (Front/ Side) EZS TL</td>
</tr>
<tr>
<td>13</td>
<td>100001600</td>
<td>Kit - Pushbar (Front Only)</td>
</tr>
<tr>
<td>14</td>
<td>1000004568</td>
<td>Power Cord</td>
</tr>
<tr>
<td>15</td>
<td>98775C</td>
<td>Kit - Fan Motor/ Blade/ Screws/ Nut</td>
</tr>
<tr>
<td>16</td>
<td>98766C</td>
<td>Kit - Condenser/ Drier/ Wire Ties</td>
</tr>
<tr>
<td>17</td>
<td>98776C</td>
<td>Kit - Compr Mtg Hdw/ Grommets/ Clips/ Studs</td>
</tr>
<tr>
<td>18</td>
<td>98787C</td>
<td>Kit - Heater/ Drier</td>
</tr>
<tr>
<td>19</td>
<td>98898C</td>
<td>Kit - Hardware</td>
</tr>
<tr>
<td>20</td>
<td>000000238</td>
<td>Kit - 115V Electricals (Relay, Overload, Cover)</td>
</tr>
<tr>
<td>21</td>
<td>98724C</td>
<td>Kit - Evap. Replacement</td>
</tr>
<tr>
<td>22</td>
<td>100001812</td>
<td>Kit - Bottle Filler Drain</td>
</tr>
<tr>
<td>23</td>
<td>56027C</td>
<td>Shroud</td>
</tr>
<tr>
<td>24</td>
<td>100001602</td>
<td>Kit - 75583C Elbow 5/16&quot; x 1/4&quot; (3 Pack)</td>
</tr>
<tr>
<td>25</td>
<td>100004559</td>
<td>Wire Assy - Jumper</td>
</tr>
<tr>
<td>26</td>
<td>56213C</td>
<td>Access Panel</td>
</tr>
<tr>
<td>27</td>
<td>100004547</td>
<td>Harness - Cooler</td>
</tr>
<tr>
<td>28</td>
<td>100004550</td>
<td>Wire - 6&quot; Jumper</td>
</tr>
<tr>
<td>29</td>
<td>98733C</td>
<td>Kit - Cold Control</td>
</tr>
<tr>
<td>NS</td>
<td>27416C</td>
<td>Wrapper Stainless Steel</td>
</tr>
<tr>
<td>NS</td>
<td>27413C</td>
<td>Wrapper Light Grey</td>
</tr>
</tbody>
</table>

NS = Not Shown

*Includes relay & overload. If under warranty, replace with same compressor used in original assembly.

**Note:** All correspondence pertaining to any of the above water coolers or orders for repair parts must include Model No. and Serial No. of cooler, name and part number of replacement part.

---

## Bottle Filler Replacement Part Kits

<table>
<thead>
<tr>
<th>ITEM NO.</th>
<th>PART NO.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS</td>
<td>98546C</td>
<td>Kit - Aerator Replacement</td>
</tr>
<tr>
<td>30</td>
<td>98549C</td>
<td>Kit - Hardware &amp; Waterway (BF)</td>
</tr>
<tr>
<td>31</td>
<td>100004573</td>
<td>Kit - Solenoid 120V (BF)</td>
</tr>
<tr>
<td>NS</td>
<td>100005077</td>
<td>Nameplate - Elkay Filtered</td>
</tr>
<tr>
<td>32</td>
<td>100002433</td>
<td>Kit - Top Cover Assy (BF)</td>
</tr>
<tr>
<td>33</td>
<td>100005219</td>
<td>Kit - IR Sensor K+</td>
</tr>
<tr>
<td>34</td>
<td>100004544</td>
<td>Kit - Alpha Numeric LED Board</td>
</tr>
<tr>
<td>NS</td>
<td>100004436</td>
<td>Kit - Tower/ Basin Gasket</td>
</tr>
<tr>
<td>35</td>
<td>100004546</td>
<td>Harness - Bottle Filler</td>
</tr>
<tr>
<td>36</td>
<td>100004549</td>
<td>Harness - LED/ IR Board</td>
</tr>
</tbody>
</table>

NS = Not Shown

---

**FCC Compliance Statement**

CAUTION: Changes or modifications not expressly approved could void your authority to use this equipment.

This device complies with Part 15 of the FCC Rules. Operation to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

**Industry Canada Statement**

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes: (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.