



**ISL Series
220V/230V Upgrade
Installation Manual**

The Fresh Connection!™

Rev. 01/18

General Information

The ISL 220/230V Upgrade is a separate Contactor/Transformer Box (CB-ISL-230) which when wired into the ISL system will allow the watermaker to operate on either 230V/1PH/60 Hz or 220V/1PH/50Hz.

Planning Your Installation

In order to save time and avoid problems during installation it is a good idea to pre-plan the layout of the system including wire runs. The following are points to consider prior to beginning the actual installation:

Operation and Maintenance: Plan ahead and place components in areas that are easily accessible.

Component Layout: Keep in mind that components are all connected by wires and hoses, leave sufficient room for routing and making the necessary connections.

Water Spillage: Mount the panel away from areas where it may come in contact with water.

Installation

Now that you have a plan, you are ready to begin. All installations are different, the following instructions are broken down into the major steps required to complete a typical installation.

CAUTION: Prior to beginning any work on your watermaker check that all power to the unit is deenergized.

1. Mounting the Components:

- A. Select a suitable location and using the four screws provided mount the CB-ISL-230V. A 20' length of 20-5 wire is connected to the terminals in the in panel to make the connection to the Watermaker control panel.

NOTE: If you are installing a new ISL that was purchased as 220V/230V, proceed to the next section. If you are converting your previously installed 115V ISL to 220V/230V proceed to step B.

- B. Remove the wire restrainer from the EP-ISL and replace it with the wire restrainer and reducing washers supplied with the CB-ISL-230V.

- C. Install the wire restrainer removed from the EP-ISL into the hole in the bottom of the CB-ISL-230 panel.

2. Electrical Connections:

A. In the EP-ISL Panel make the following connections.

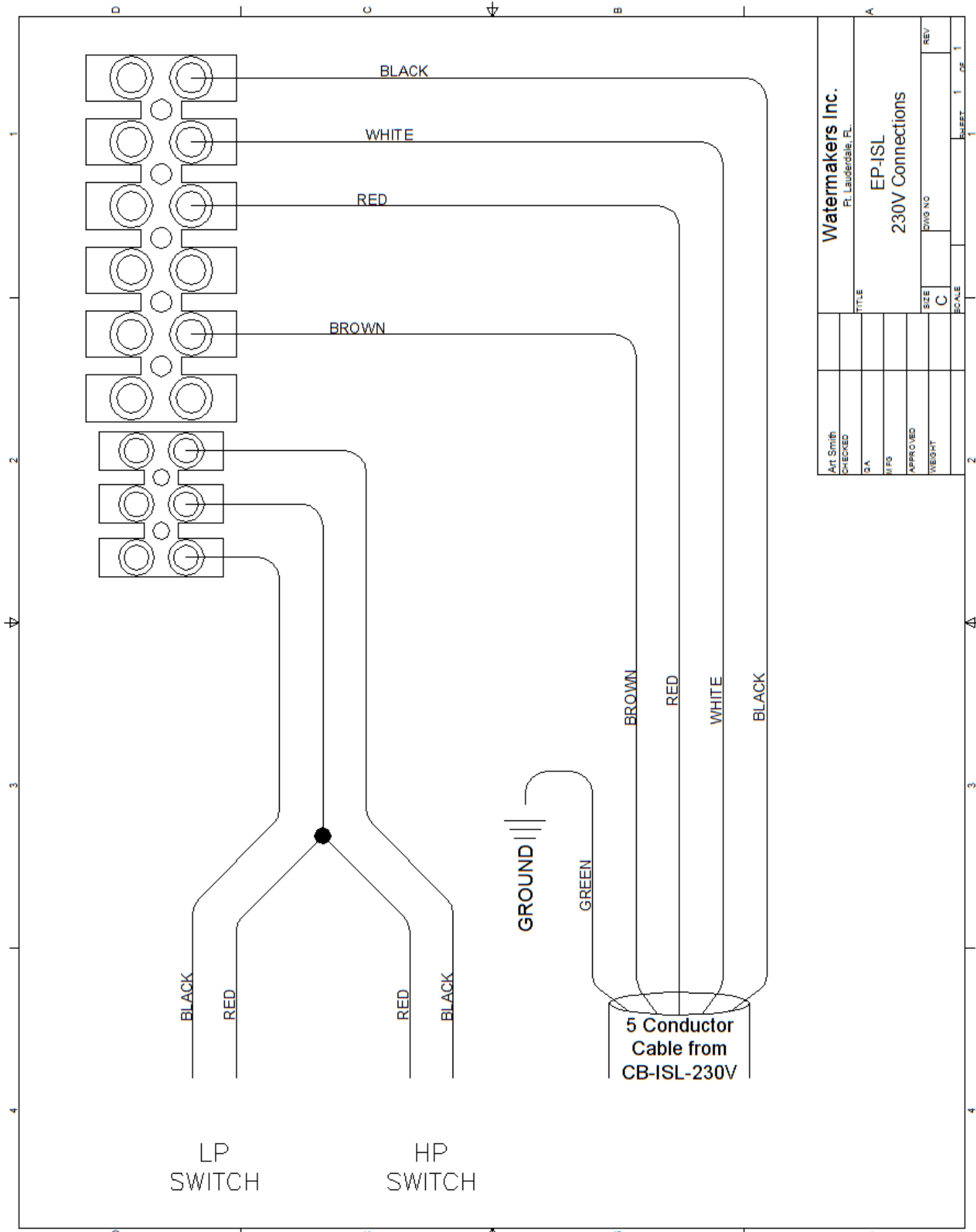
1. Insert the 5 conductor cable from the CB-ISL-230V panel through the wire restrainer
2. Strip off approximately 6” of the outer sheath from the cable, exposing the inner wires.
3. Strip approximately 1/4” of insulation from each of the inner wires.
4. Connect the wires as indicated on the connection diagram on page 4.
5. Repeat steps 1 through 4 for the high and low pressure switch wires.
6. Connect all of the ground wires together using a wire nut or other appropriate connector.

B. Make the following connections in the CB-ISL-230V. Refer to the drawings on page 4 and 5 or the drawings that came with the panel.

1. Check that the motors for the Feed Pump and High Pressure Pump are wired for 220V/230V. Refer to the connection diagrams on the motors.

NOTE: If you are converting your previously installed 115V ISL to 220V/230V or you need to rewire the Feed Pump for any reason be sure to wire it for “Reverse Rotation” in accordance with the motor label instructions.

2. Insert the Feed Pump wire through the wire restrainer in the CB-ISL-230V
3. Strip off approximately 6” of the outer sheath from the cable, exposing the inner wires.
4. Strip approximately 3/8” of insulation from each of the inner wires.
5. Connect the wires as indicated on the connection diagram on page 5.
6. Repeat steps 2 through 5 for the High Pressure Pump and Pain Power wires.
7. Connect the main power wire to a 15A circuit breaker in the ships main panel.
8. Connect all of the ground wires together in the grounding lug provided.



Art Smith CHECKED	Watermakers Inc. FL, Lauderdale, FL.				
D/A	TITLE				
J/FS	EP-ISL 230V Connections				
APPROVED	DWG NO				
WEIGHT	SIZE				
	C				
	SCALE				
	SHEET	1	OF	1	

LIMITED WARRANTY

Watermakers, Inc. warrants that each Watermaker's Inc., system has been factory tested to perform in accordance with published specifications at the time of delivery. The Company further warrants that the Watermaker will continue to make potable water for a period of one year from the warranty effective date, provided that the user provides feed-water meeting minimum standards and adopts and implements the maintenance program as outlined in the Operating Manual. Expendable or consumable products such as but not limited to filters, oils, chemical, or UV lamps, which by nature have a life expectancy of less than twelve (12) months, will be replaced if their performance is less than normally attributed by industry standards to that product.

The Company's liability under this warranty is limited to the repair or replacement at the Company's discretion of the system or components found to be defective solely as to materials or workmanship during the warranty terms. The replacement will be on an exchange basis from the factory direct or arranged through a Watermaker dealer or distributor (no labor, transportation, duties or mileage charges will be reimbursed). If a complete Watermaker's Inc., system is returned to the factory (freight prepaid), Watermaker's Inc., will repair or replace all or part of the system at Watermaker's Inc., discretion, free of charge(except transportation) if the unit is determined to be defective under this warranty. Owner will be required to pay any labor charges incurred by a Watermaker's Inc., dealer if replacement takes place after three (3) Months of original purchase.

This warranty does not extend to any system or component which failed due to (1) Damage from mishandling, misuse, substandard feed-water, improper maintenance procedures or neglect, (2) Improper installation, or (3) Incorrect electrical supply. This warranty is void if serial numbers of components are mutilated or missing. The warranty period is established by the warranty card supplied with each unit, which is to be filled out by the purchaser or installer and returned to the factory for validation. If no warranty card is returned, the warranty is considered to be effective thirty (30) days from date of factory shipment.

There are no warranties express or implied which go beyond the foregoing statement.

Some states do not allow for the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above limitations or exclusions may not apply. This warranty gives you specific legal rights and you may have other rights that vary from state to state.

Warranty/Service Policy

In the event that a system component breaks down, whether or not the unit is under warranty, please follow the directions below so that we may resolve the problem quickly.

1. Any part of the system that has malfunctioned must be sent prepaid to the factory with a return authorization number. This number can be obtained by calling the factory and speaking to the service manager. A description of the problem and all necessary data from the Owners Performance Log must be included to assist the factory in identifying the problem.
2. Upon receipt of the item(s), an inspection and test will be made and a determination as to whether repair or replacement under warranty will be made. In cases of non-warranty repair, a cost estimate will be made and the customer will be notified before proceeding with the repair.
3. Normal service time required is approximately one to two weeks, depending on the part.

Important

If the unit is still within the warranty period, a copy of the warranty sheet must accompany the part(s).

For valid Warranty please observe the following conditions:

Upon factory shipment of the reverse osmosis system or parts, the original purchaser is responsible for acceptance testing within 45 days of invoice. On all systems shipped outside the continental United States, the purchaser has 60 days.

Unauthorized repair of the RO system in the field will void all warranties. Use of unauthorized filters, oils or chemical cleaners also will void all warranties.

ALL SYSTEMS MUST BE OPERATED WITHIN FACTORY INSTRUCTIONS AND WRITTEN DESIGN SPECIFICATIONS OF THE EQUIPMENT. UNAUTHORIZED ADJUSTMENT OR DISABELING OF ANY SAFTEY DEVICE (PRESSURE SWITCHES, RELIEF VALVES, ETC) WILL VOID THE WARRANTY. MISUSE, MISAPLICATION, ABUSE, NEGLIGENCE, CHLORINE DAMAGE, UNAPPROVED CLEANING CHEMICALS, AND ACTS OF GOD WILL VOID THE WARRANTY.

Contact Information

To Order Parts visit www.watermakers.com and click on the Parts Tab to use the online order form.

For Sales, Service and Technical inquiries, e-mail info@watermakers.com

Or, contact us direct at the factory:

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