Quick Start Guide
IntelliGen™ Refrigeration Controller

Prior Assembly Needed

- Please keep these instructions for future reference.
- Equipment assembly and wiring is required before using this guide.
- Please make sure control circuit transformer is properly set up.

Please ensure your board has the latest firmware. Latest firmware revision can be found at https://intelligencontrols.com/resources

For assembly, please consult IntelliGen installation & operation manual.

IMPORTANT!

Control transformers come with the voltage tap on 240V (as shown). If your site has less than 215VAC, the tap will need to be moved to 208V in order to ensure 25VAC to 29VAC power to IntelliGen board.

Legend

<table>
<thead>
<tr>
<th>Long Name</th>
<th>Abbrev. Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Evap/Evaporator</td>
<td>EV</td>
</tr>
<tr>
<td>Set-Point</td>
<td>SP</td>
</tr>
<tr>
<td>Auxiliary</td>
<td>AUX</td>
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<tr>
<td>Temperature/Temperature</td>
<td>TEMP</td>
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<tr>
<td>Calibration</td>
<td>CALIB</td>
</tr>
<tr>
<td>Electronic Expansion Valve</td>
<td>EXV</td>
</tr>
<tr>
<td>Condensing Unit</td>
<td>CU</td>
</tr>
<tr>
<td>Compressor</td>
<td>COMP</td>
</tr>
</tbody>
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U.S. Customer Service

Normal Business Hours - 8:00 AM - 8:00 PM EDT
(800) 537-7775

After Hours (After 5:00 PM EDT, weekends and holidays)
(877) 482-7238
heatcraft.com/intelligen/support
SESweb@heatcraftrpdl.com
Get to know the intelliGen Refrigeration Controller (iRC)

**iRC User Interface**
You can find the User Interface (iRC UI) attached to each unit.*

**HOW TO NAVIGATE?**
A. **Home Button**: Press to go back to Main Menu
B. **Back Button**: Press to go back to Previous Menu
C. **Favorites Button**: Press to go to your Favorites
D. **OLED Screen**: Shows the content like temperature, parameters and others.
E. **LED Status Light Bar**: Indicates the current status of all specific evaporators on the system (See below).
F. **Knob / Enter Button**: Rotate the knob left and right to navigate between Menu Options. Press the knob to ENTER.

**LED Status Light Bar**

**GREEN**
- **LED GREEN STATIC**
  The System or EV does not have any anomalies/issues.

**RED**
- **LED RED STATIC**
  The System or EV has an Alarm.
- **LED RED FLASHING**
  The EV Unit where the Alarm originated.

**YELLOW**
- **LED YELLOW STATIC**
  The System or EV has an Error.
- **LED YELLOW FLASHING**
  The EV Unit where the Error originated.

**WHITE**
- **LED WHITE STATIC**
  The EV Unit is being identified.

**NO LED ON**
- **NO LED ON**
  The EV Unit is currently OFF.

* Figure shows a Low Profile unit cooler; location might vary on other units.

Scan QR code to view the Quick Start Configuration video.
QUICK SETUP FROM iRC UI

STEP 1. Enter Expert PIN

ENTER EXPERT PIN

First digit in PIN automatically flashes for edit. Turn dial to change first PIN digit 0-9. Push Enter to choose digit. Repeat with all digits. The Default Expert PIN is 999999.

STEP 2. Select Configuration Mode

CONFIG FROM?

Select EV to proceed with configuring the system from the iRC UI.

STEP 3A. Equipment Discovery

DISCOVERING

After Configuration Mode is selected as ‘EV’, the iRC will automatically attempt to discover all units in the system.

STEP 3B. Equipment Discovery

#EV FOUND

Continue?

After polling for connected units, the iRC UI will display the number of EV that are found to be wired together. If all connected EVs were found, press Enter knob to continue.

STEP 4A. Choose Unit Base Name

UNIT ADDRESS       123
NAME:       Freezer 2A

The Unit being named will have its LED flashing white. Turn knob to change base name: [Freezer, Cooler, Unit, Box]. Push the knob to choose the base name.

STEP 4B. Choose Unit Suffix

UNIT ADDRESS       123
NAME:       Freezer 2A

Turn knob to change unit name suffix [1A, 1B, ..., 8H]. Push the knob to choose the name suffix. (Repeat this step with all your EV’s as necessary)

STEP 5. Choose Box Temp Sensor

SELECT PRIMARY EV?

Freezer 2B

If more than 1 Evap was configured, turn knob to change primary evap which will be sensing the box temp. Push knob to choose primary evap.

STEP 6A. Select if Condensing Unit Wired

CU WIRED? Yes

Press the knob to select YES, if there is a condensing unit wired to an evaporator.

STEP 6B. Select EV wired to Condensing Unit

CU WIRED TO EV?

Freezer 2A

Turn the knob to select the evaporator wired to the condensing unit. Press the knob to choose the evaporator.
QUICK SETUP FROM iRC UI

**STEP 7.** Setting Date & Time/Country

| COUNTRY | USA |

Country field will automatically flash for edit. Turn dial to change country. Push the knob to choose the country.

**STEP 8.** Time Zone

| TIME ZONE | Non-Standard |

Time Zone field will automatically flash for edit. Turn knob to change time zone. Push the knob to choose the time zone.

**STEP 9.** Daylight Savings

| DAYLIGHT SAVINGS? | Yes |

Turn the knob. Push knob to select either Yes or No.

**STEP 10.** Date & Time

| DATE/TIME | 2018 Aug 29 23:59 |

Year field will automatically flash for edit. Turn knob to choose year. Push the knob to choose year. Repeat steps with Month, Day, Hours and Minutes.

**STEP 11.** Select Defrost Type

| DEFROST TYPE | Low Temp Electric |

Defrost type field will automatically flash for edit. Turn knob to change defrost type selection. Push the knob to choose defrost type.

**STEP 12.** Select Defrost Style

| DEFROST STYLE | Smart |

Defrost style field will automatically flash for edit. Turn knob to change defrost style selection. Push the knob to choose defrost style.

**STEP 13.** Select Refrigerant

| REFRIGERANT | R404A |

Refrigerant field will automatically flash for edit. Turn knob to change refrigerant selection. Push the knob to choose refrigerant.

**STEP 14.** Select Box Temp Set-Point

| BOX TEMP SP | 34.5°F |

Box temp setpoint will automatically flash for edit. Turn knob to change box temp setpoint selection. Push the knob to choose box temp setpoint.

**STEP 15.** Start System

| 2 UNITS CONFIGURED | Start System? |

Start System will automatically flash for edit. Push the knob to start the system when ready.