QUICK START GUIDE

intelliGen™ Refrigeration Controller

MARCH 2021
PART NO. 25010301
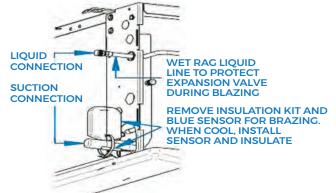

PRIOR ASSEMBLY NEEDED

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 setup.

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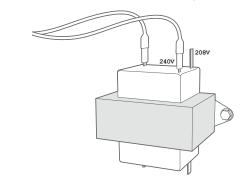can be found at https://intelligencontrols.com/resources

For assembly, please consult intelliGen installation & operation manual.

IMPORTANT!

BRAZING PIPING CONNECTIONS

LIQUID CONNECTION

SUCTION CONNECTION

WET RAG LIQUID LINE TO PROTECT EXPANSION VALVE DURING BLAZING

REMOVE INSULATION KIT AND BLUE SENSOR FOR BRAZING. WHEN COOL, INSTALL SENSOR AND INSULATE

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.

240V   208V

Legend

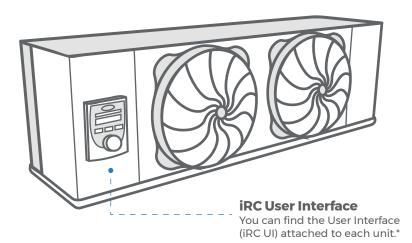| Long Name	Abbrev. Name
Evap/Evaporator	EV
Set-Point	SP
Auxiliary	AUX
Temperature/Temp	TEMP
Calibration	CALIB
Electronic Expansion Valve	EXV
Condensing Unit	CU
Compressor	COMP

U.S. Customer Service

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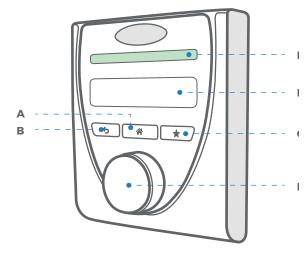(800) 537-7775

After Hours (After 5:00 PM EDT, weekends and holidays)
(877) 482-7238

heatcraft.com/intelligen/support
SESweb@heatcraftrpd.com

intelliGen REFRIGERATION CONTROLLER

Get to know the intelliGen Refrigeration Controller (iRC)

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

A

B

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, paramenters 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

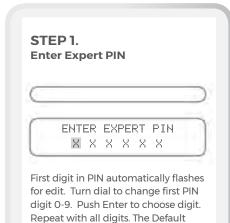**LED WHITE STATIC**
The EV Unit is being identified.

NO LED ON

The EV Unit is currently OFF.

Scan QR code to view the Quick Start Configuration video.

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

QUICK SETUP FROM iRC UI

STEP 1.
Enter Expert PIN

```
 ENTER EXPERT PIN
  X X X X X X
```

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?
                EV
```

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

STEP 3A.
Equipment Discovery

```
DISCOVERING
          Equipment...
```

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 unit 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
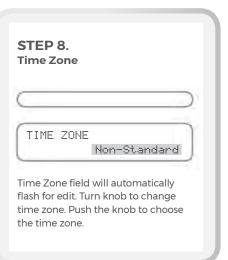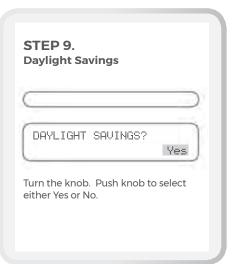
```
CU WIRED TO EV?
          Freezer 2A
```

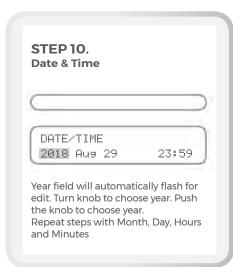Turn the knob to select the evaporator wired to the condensing unit. Press the knob to choose the evaporator.
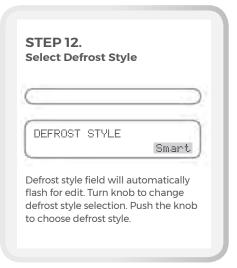
QUICK SETUP FROM iRC UI

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.