

Cleveland Range
TurboJet
Operator's Manual

Version 8.3.0

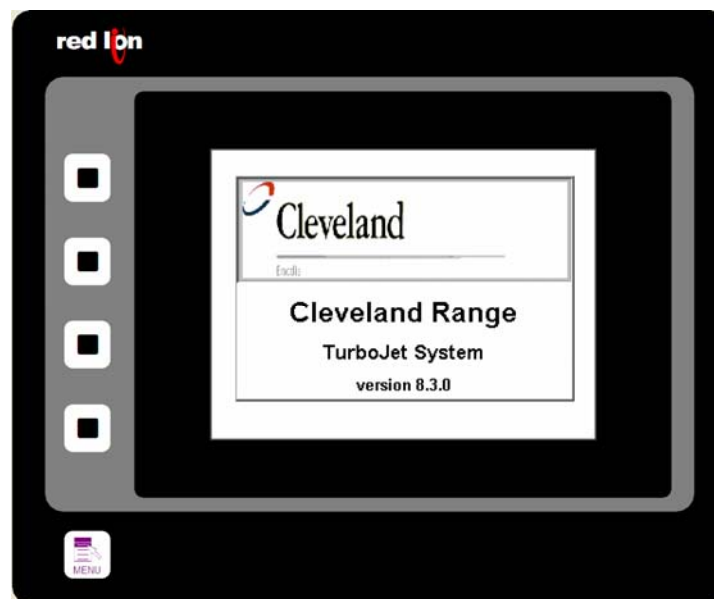
The purpose of this manual is to guide the operator in the operation of Cleveland Range's TurboJet processing system. This manual is an overview and not intended to answer any and all questions concerning the operation and functions of the TurboJet. Please contact Cleveland Range for any and all technical questions concerning this product.

Power-up the TurboJet

Turn on the power by switching the "Power" switch on the front of the control panel.

(Insert picture of control panel)

As the system powers up the operator interface screen will display the "Cleveland" logo.




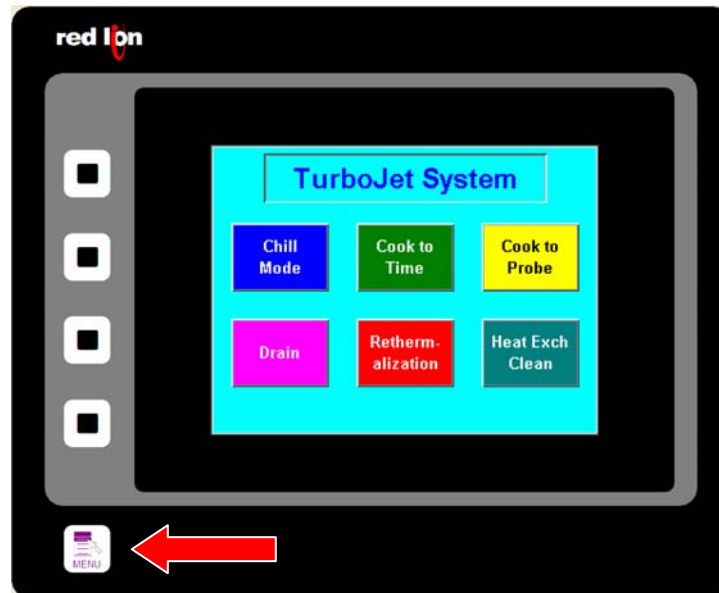
After about five (5) seconds the main menu screen will appear.

Main Menu Screen

Before we start the actual discussion of the operation of the system, we need to cover some points about the Operator Interface Panel or screen.

- ◆ There are five (5) keys on the face of the panel that are used to bring up various menus. On the TurboJet only the key labeled "Menu" is activated and available for use.
- ◆ All of the illuminated part of the panel is touch activated. The areas that are active on any screen indicated by a colored box that will either jump to another screen, perform some action, or bring up a number pad for data entry.
- ◆ Whenever you are within an operation the background color of the screen will be the same color as that process's button color on the main menu.

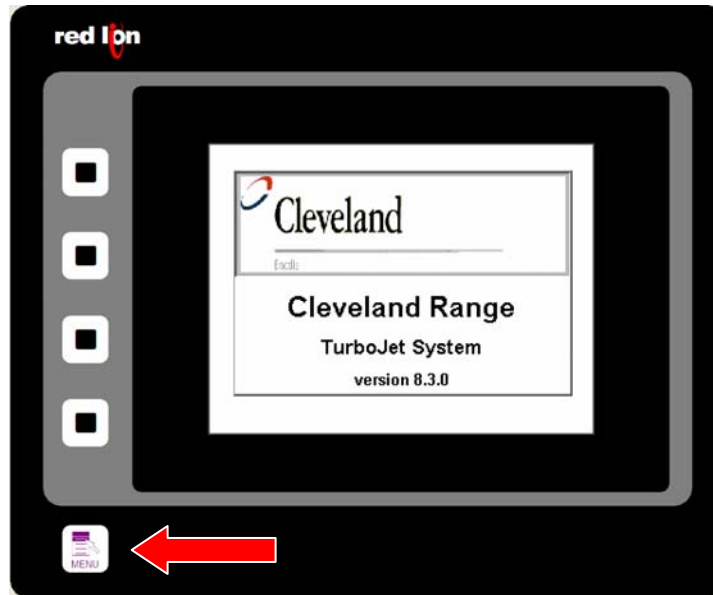
- ✦ It should also be noted that some buttons or display objects on the various screens are not visible at all times. When a button or display object is not valid, pertinent or active, it will not be displayed.
- ✦ Finally, a couple of notes about this manual. This is not designed to be an inclusive guide for every situation encountered, although every attempt has been made to cover the everyday situations.
- ✦ On several of the screen images there are red arrows that point to buttons or areas of the screen being discussed in the text.  (example)



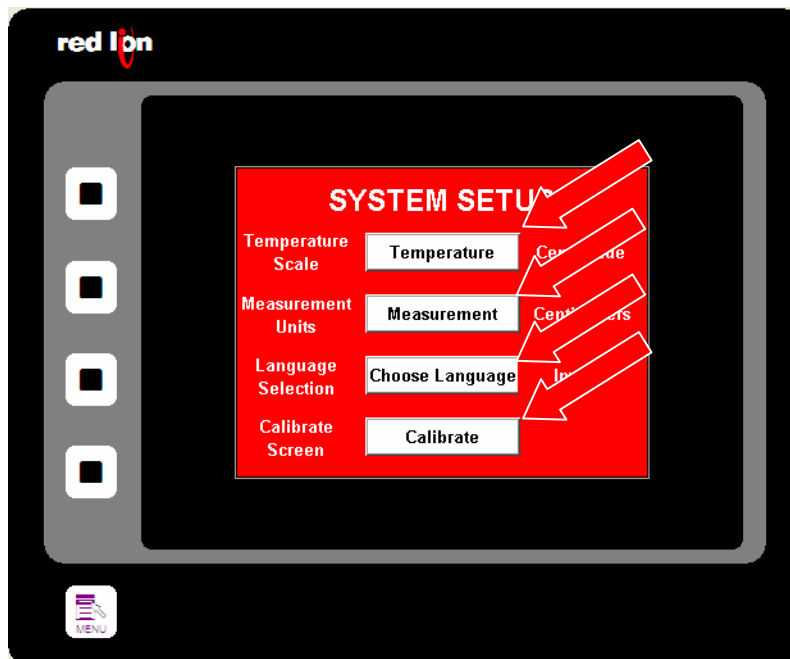
From this screen the operator makes all choices about the operational processes the system is to perform. Also note the “Menu” button on the lower left portion of the operator interface screen. This button is used to abort any process that is running and to return to this “Menu” screen

INITIAL SETUP

In the initial setup the system can be setup to the local measurement and language preferences. The options available are: language selection, temperature units (°F or °C), measurement units (inches and centimeters), and a screen calibration option. This initial setup screen is available only during the power up sequence. After power is applied and the initial “Cleveland” screen appears, press the menu button.



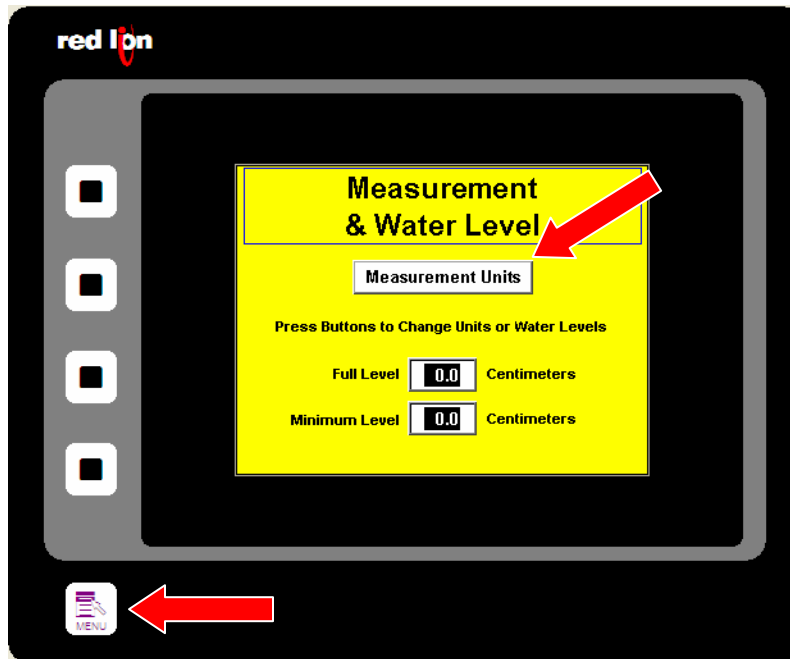
This action will display the setup screen as shown below.



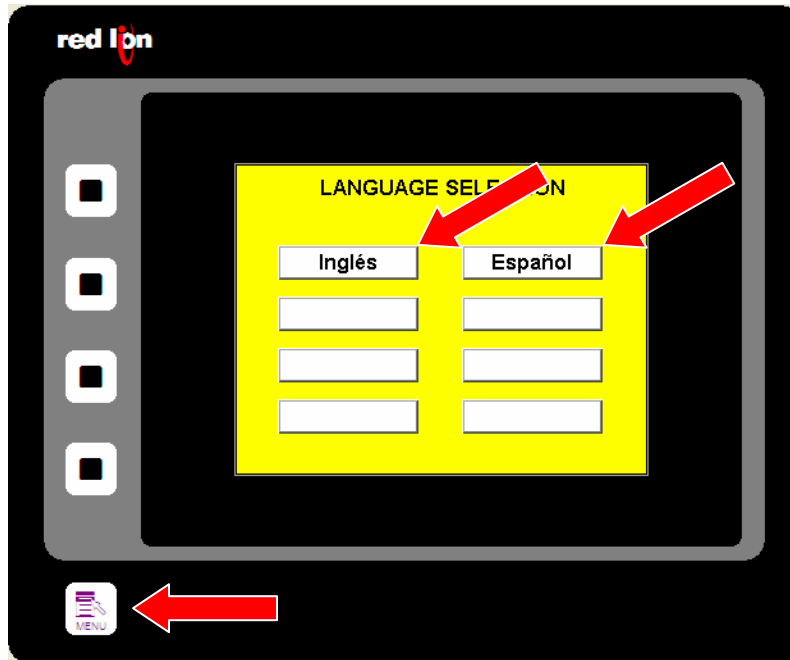
Pressing the white “Temperature” button will switch the units between Fahrenheit and Centigrade as indicated to the right of the button.

Pressing the white “Measurement” button will cause the screen to jump to the measurement options screen. Pressing the white “Measurement Units” button will alternate the system units between inches and centimeters as displayed next to the “Full Level” and “Minimum Level” lines. The first time the system is started and every time the units are changed the minimum and full level values must be entered. If these values are not entered the TurboJet may not operate correctly because it may think the water

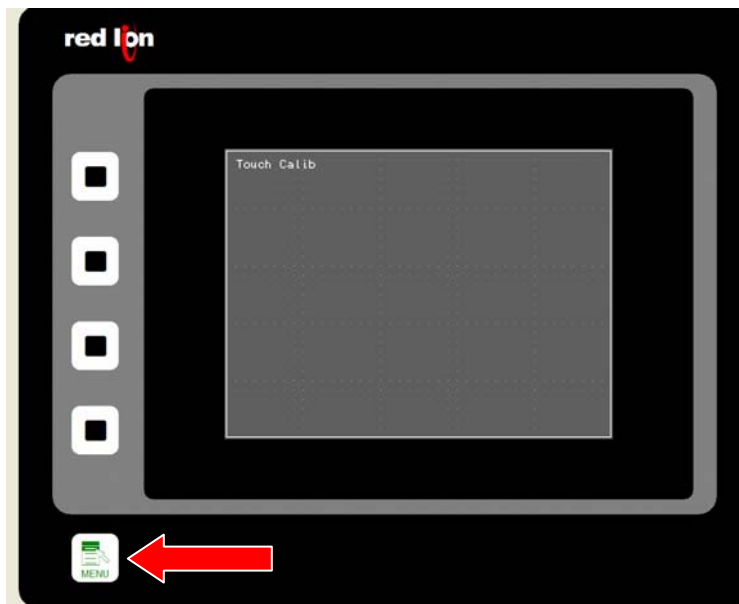
levels are or are not sufficient to operate the pumps and water fill circuitry. After completing these selections and entries press the “Menu” button to return to the previous display screen.



Pressing the white “Choose Language” button will jump the display to the language selection screen. At this time English and Spanish are the only language options. Selecting either of the languages will immediately change the text on the screen to the requested language. Please note, the language names or in the opposite language from the current selected language. Again, press the “Menu” button after the selections are completed and correct for the local site.



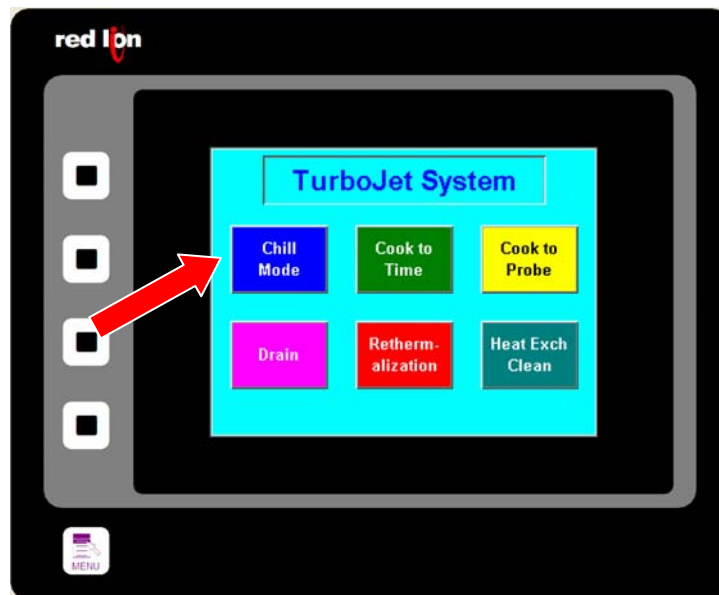
If you are having difficulty getting the screen buttons to activate when pushing/touching them, the touch screen may require calibration.



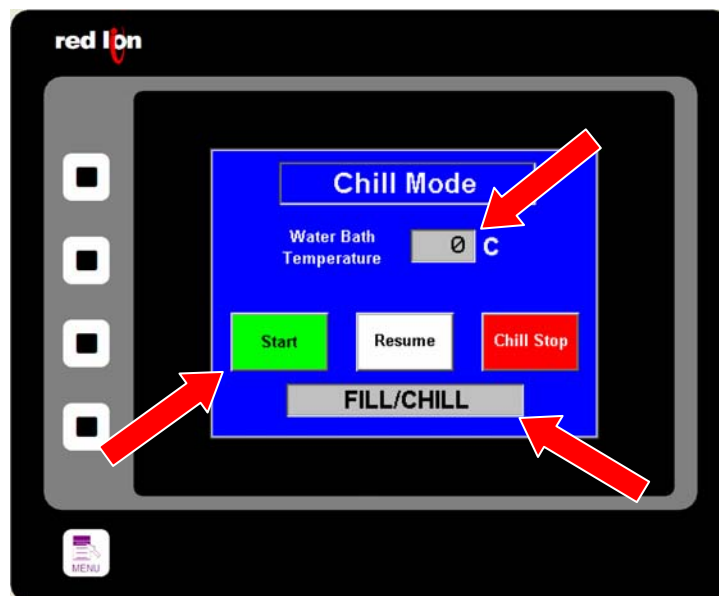
When the calibration screen appears just follow the instructions on the screen. When the calibration process is complete, press the "Menu" button and return to the main menu screen.

CHILL MODE

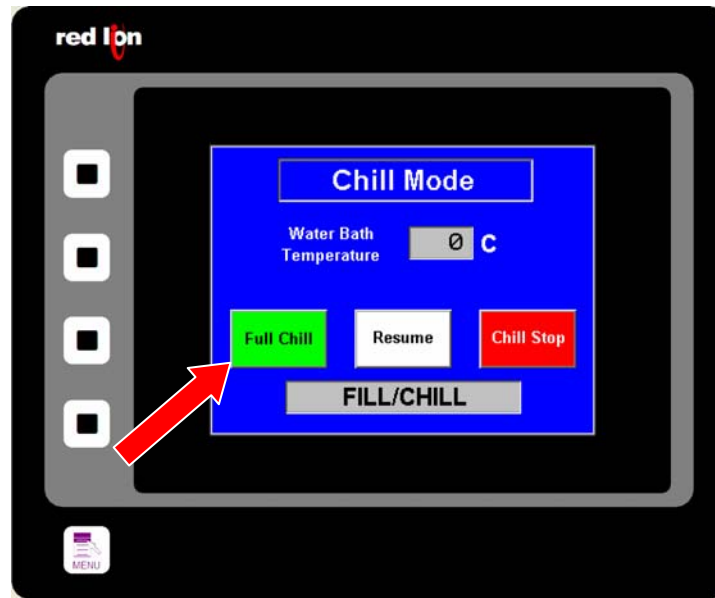
From the “Main” menu press the blue Chill Mode “button” on the touch screen.



The Chill Mode screen should now appear.



Press the green “Start” button to begin filling the tank to the lower water level. The temperature of the water bath is displayed on this screen at all times. Note the text beneath the operational buttons displays the stage the process is currently in (filling, fill/chill, or chilling). At this screen the tank will fill with water to the low level, the stage message will read “Filling”. Once the low water level is detected the circulating pump and chilling will start. At this time the product to be chilled should be added to the TurboJet tank.



Once the product has been loaded into the TurboJet the green “Full Chill” button is pressed. This will fill the tank to the second level and continue the chilling process; the stage message will read “Fill/Chill”. When the water level reaches the upper level filling stops and the stage message will change to “Chilling”.

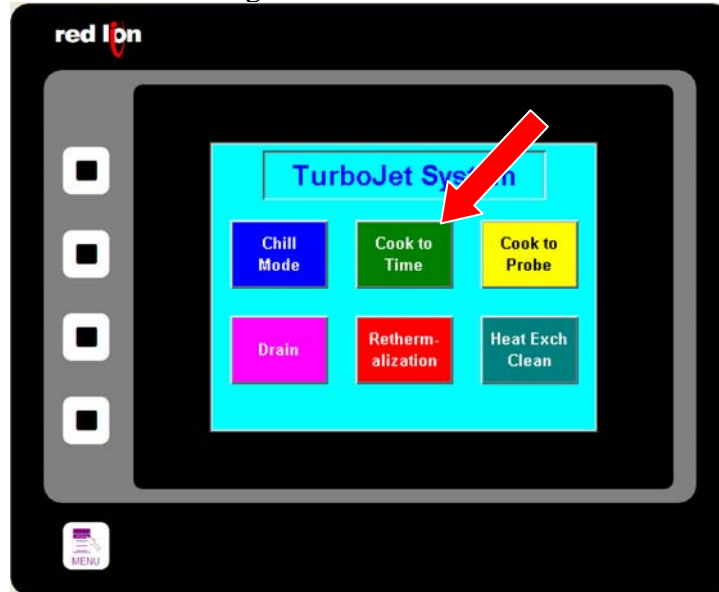
If for some reason the process needs to be stopped, the white “Pause/Resume” button can be pressed. The white button is an alternating style button; the pumps will either pause or resume pumping depending on their previous state. The button label will change from “Pause” to “Resume”.

The red “Chill Stop” button is used to stop the chill process after the food product has reached the desired temperature. This is mainly used when another batch of product is to be chilled and the cold water in the Cook/Chill is to be reused. Alternately, the “Menu” button could be used to stop the chill process. If this method is used the operator must go through the steps from the beginning of the “Chill” process.

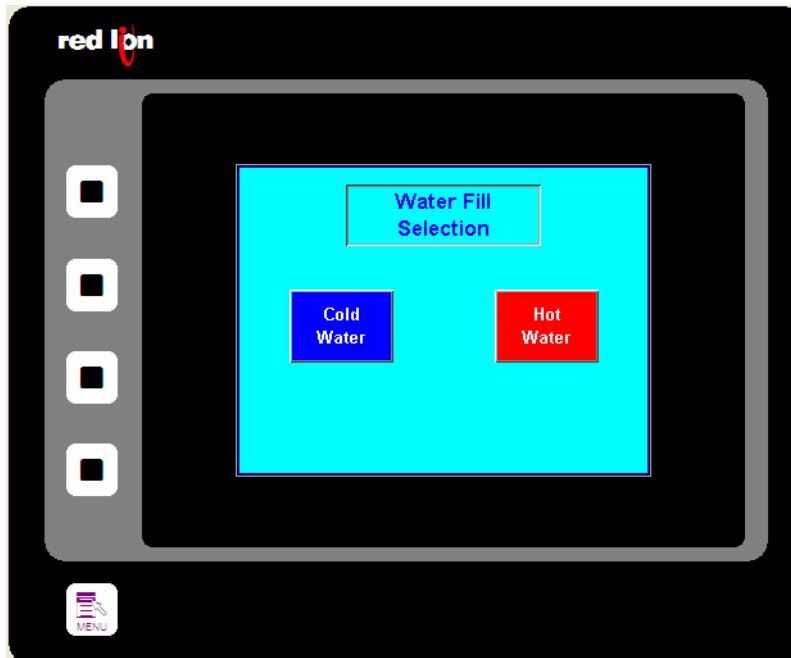
Press the “Menu” key to return to the main menu.

COOK TO TIME MODE

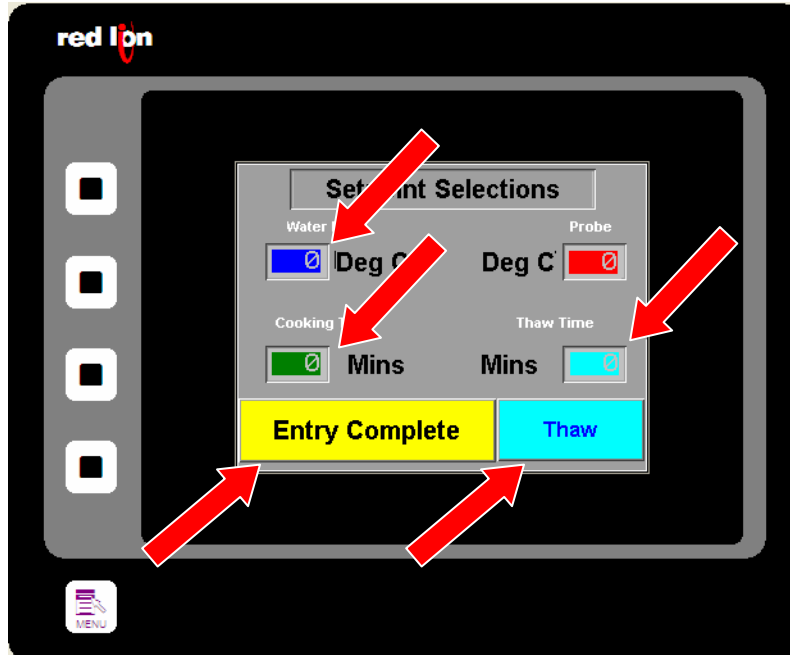
From the main menu press the green “Cook to Time” button. The cook to time process will raise the water bath temperature to the selected temperature and hold this temperature for the selected cooking time.



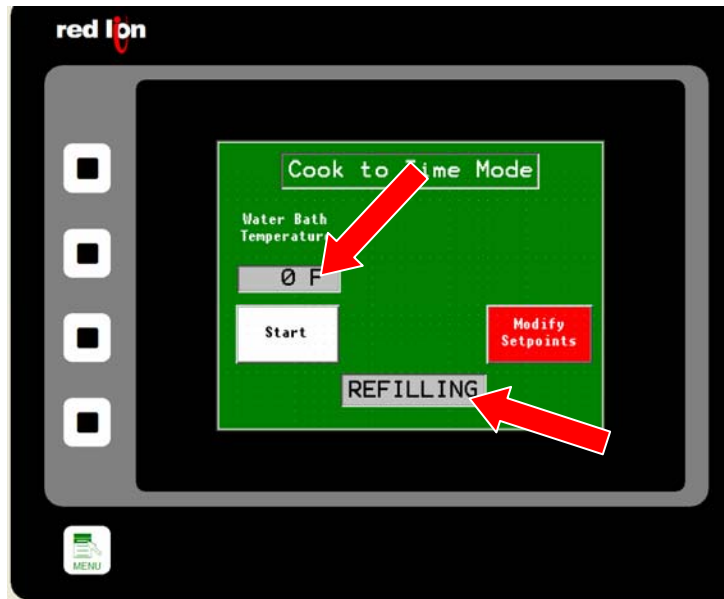
The screen will change to allow the selection of the fill water source. Press the water source desired, and the screen will change to allow the cooking parameters to be entered.



Enter the water bath temperature, cooking time in minutes and thaw time in minutes. Please note, the thaw time is deactivated each time a cooking process is started to prevent accidentally entering a thaw stage. Touching any of the colored entry points twice will bring up the number pad that will allow the set points to be entered.

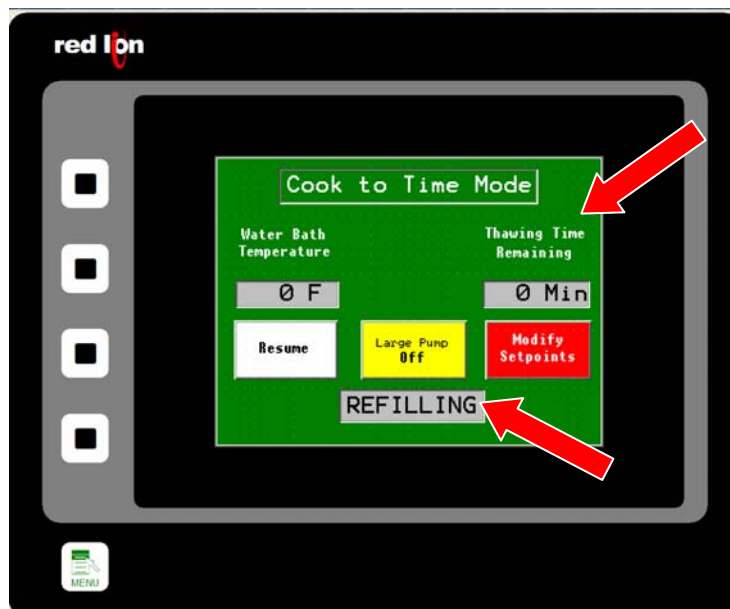


If more than one set point is to be set you can press the “Next” button after you have entered a set point and the entry value will move to the next set point variable. When all set points have been properly set, push the “Enter” button and the number pad will disappear. If the thaw stage is desired, press the “Thaw” button to activate the thaw stage. At this time press the large yellow “Entry Complete” button. The screen will change to the operational “Cook to Time” screen.



The screen will display the water bath. Note the stage text beneath the operational buttons display the stage the process is currently in (filling, thawing, heating, cooling, draining, refilling, or chilling).

After loading the TurboJet with the product to be processed press the white “Start” button to begin the “Cook to Time” process, the stage message will read “Filling”.

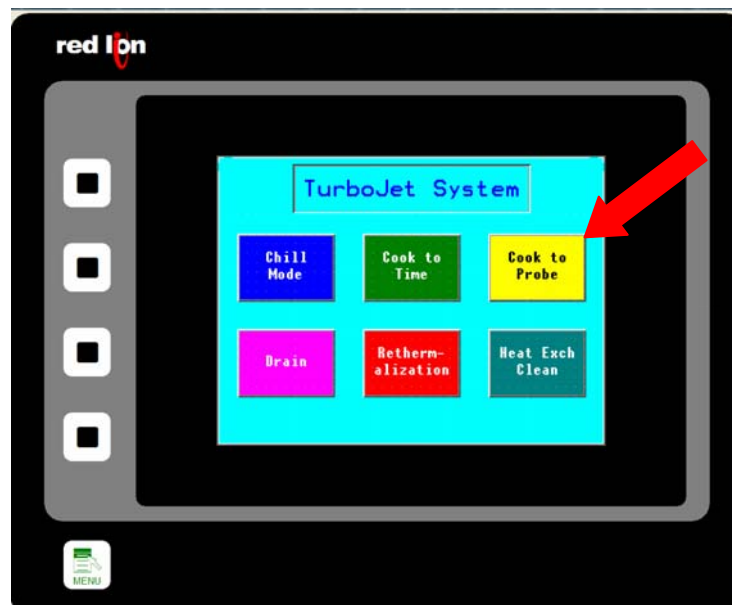


The yellow “Large Pump” button allows the large pump to run if more water circulation is required. The white “Start” button will change to become a “Pause/Resume” button and will temporarily stop the pumps if running. The red “Modify Setpoints” button will jump back to the set point selection screen if the set points need be modified.

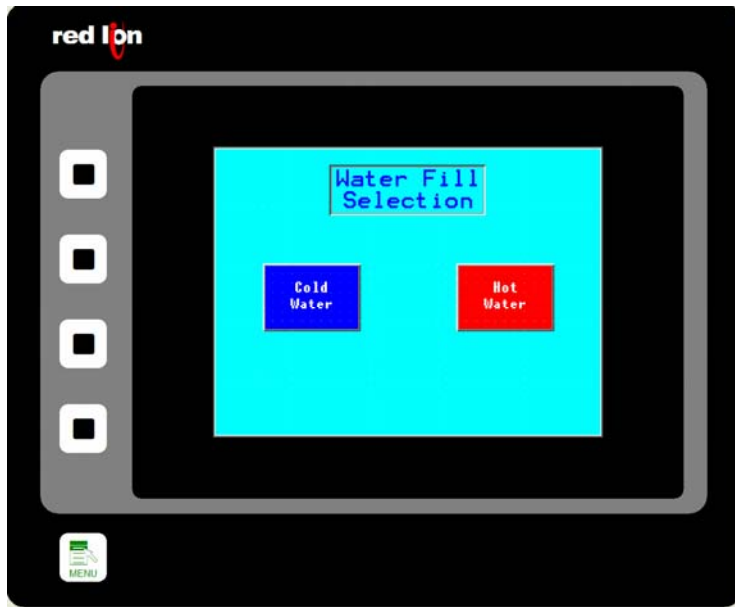
If the thaw stage has been selected the text above the timer value will read “Thawing Time Remaining” while the stage message will read “Thawing”. When the cooking stage is reached the text will read “Cooking Time Remaining” and the stage message will read “Cooking”. The text and the timer value are only visible when the timer is active. Upon reaching the chilling cycle the TurboJet remains in the chilling cycle until you, the operator, stop the process by pressing the “Menu” button.

COOK TO PROBE MODE

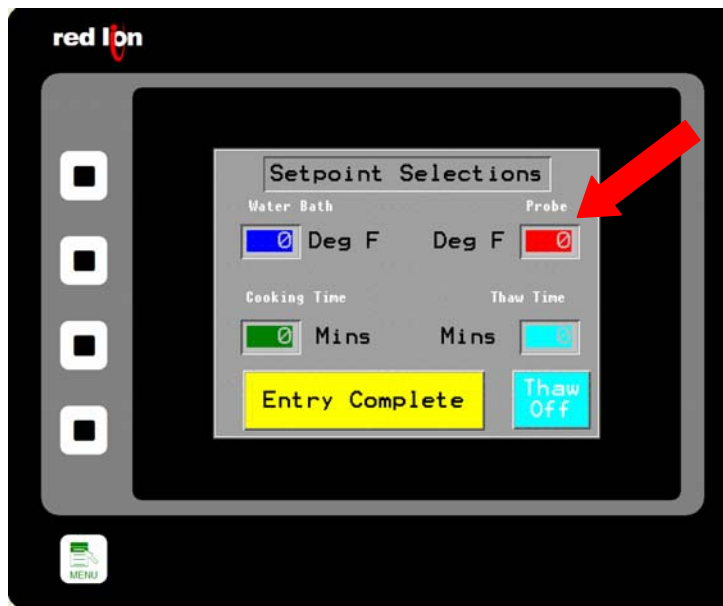
By pressing the yellow “Cook to Probe” button you will begin the cook to probe process. The cook to probe process will raise the water bath to the preset water bath temperature and hold at that temperature. The cooking timer will not begin until the probe temperature has reached the pre-selected temperature. When the cooking timer reaches zero, the cooking process is stopped. The tank will drain the hot water, refill with cold water and start the chilling process. As in the “Cook to Time” mode the thaw stage will occur first if it has been selected.



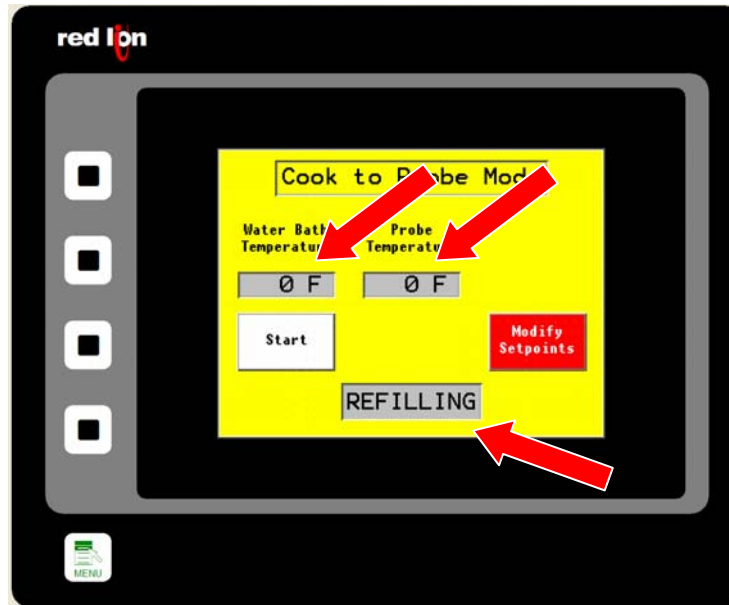
This will again take you to the water fill selection screen.



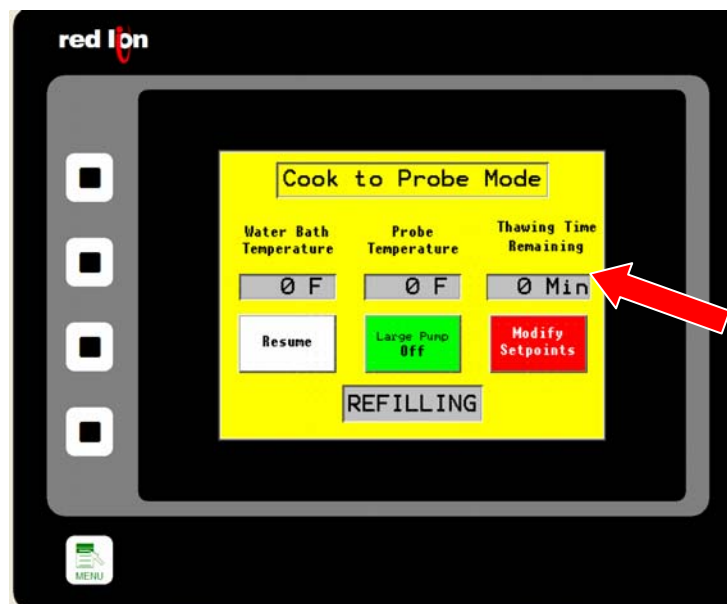
Pressing the water fill source will jump to the set point entry screen. Note that this screen now has an entry for the probe temperature in addition to the water bath temperature, cooking time, and thawing time. The probe temperature is not allowed to be greater than five (5) degrees below the water bath temperature.



Remember to press the “Thaw” button if you desire the thaw stage to be activated. When you have finished making the entries push the yellow “Entry Complete” button. This will change the screen to the cook to probe monitor screen. Note that the screen now displays the water bath temperature, probe temperature.



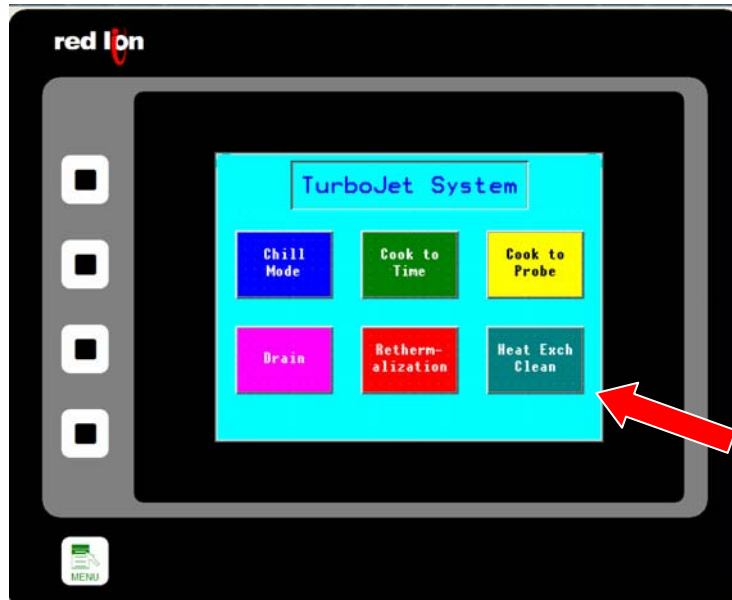
Pressing the white “Start” button will start the process by starting the tank filling cycle.



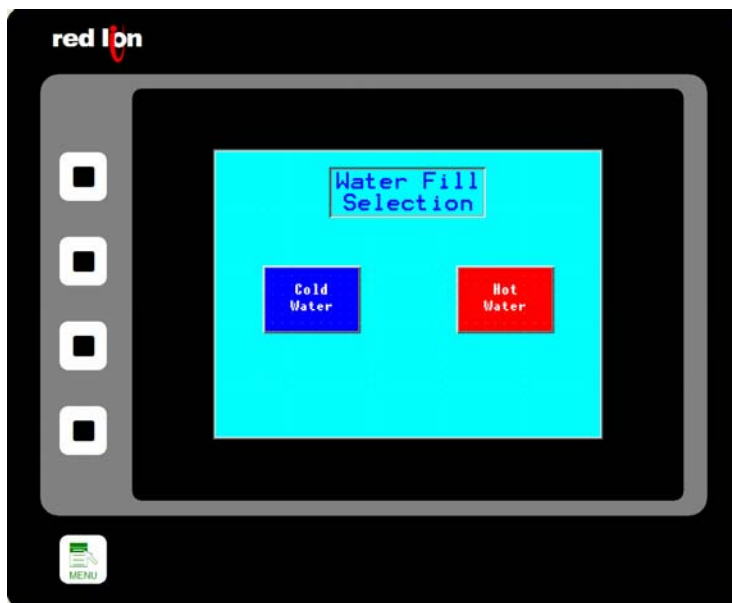
The green “Large Pump” button allows the large pump to run if more water circulation is required. The white “Start” button will change to become a “Pause/Resume” button and will temporarily stop the pumps from running. As discussed in the “Cook to Time” section, only during the thawing and cooking stages is the timer text and value visible. The red “Modify Setpoints” button will jump back to the set point selection screen if the set points need be modified. Note the stage text beneath the operational buttons display the stage the process is currently in (filling, thawing, heating, cooling, draining, refilling, or chilling). Upon reaching the chilling cycle the TurboJet remains in the chilling cycle until you, the operator, stop the process by pressing the “Menu” button.

HEAT EXCHANGE CLEANING

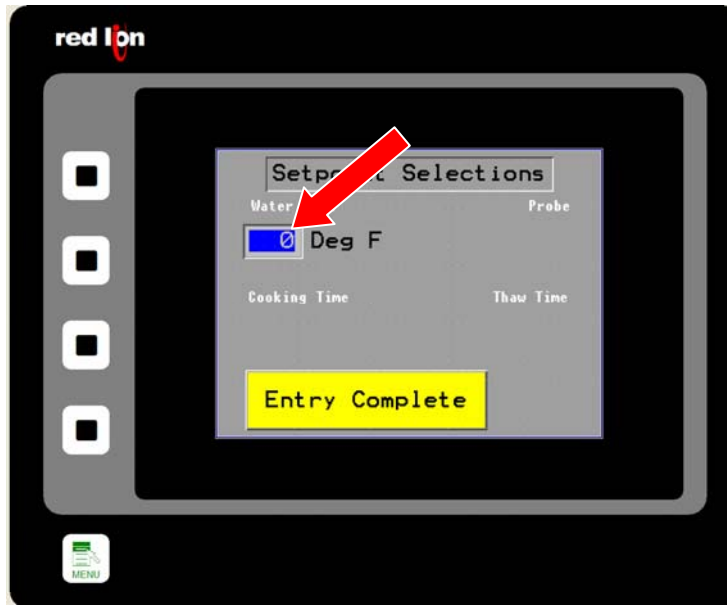
The Heat Exchange Clean process is used to circulate cleaning solution through the heat exchanger. Start by pressing the “Heat Exch Clean” button from the main menu.



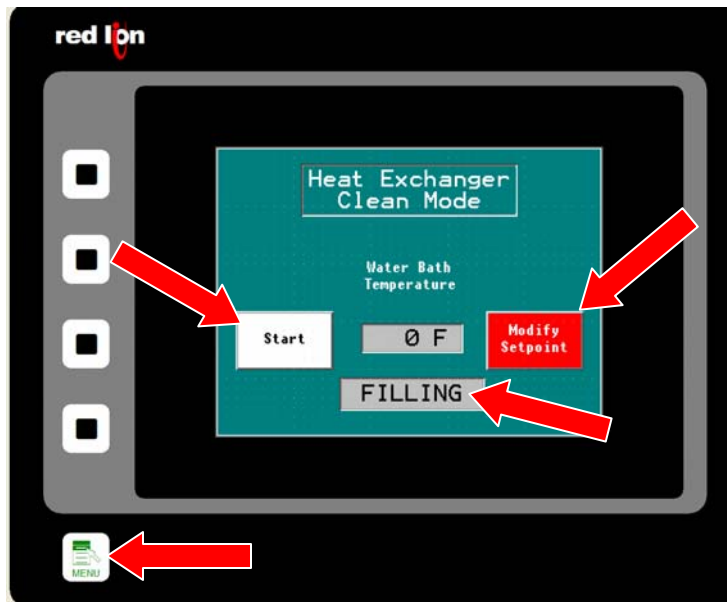
The fill screen will appear to allow the water type selection for the fill water.



After selecting the water source the screen will change to allow the water bath temperature to be selected.



Touching the blue colored square around the degree number will bring up the number pad to allow the entry of the water bath set point. After completing your entry press the “enter” button on the number pad and the number pad will disappear. Press the yellow “Entry Complete” button to jump to the Heat Exchange Clean screen.

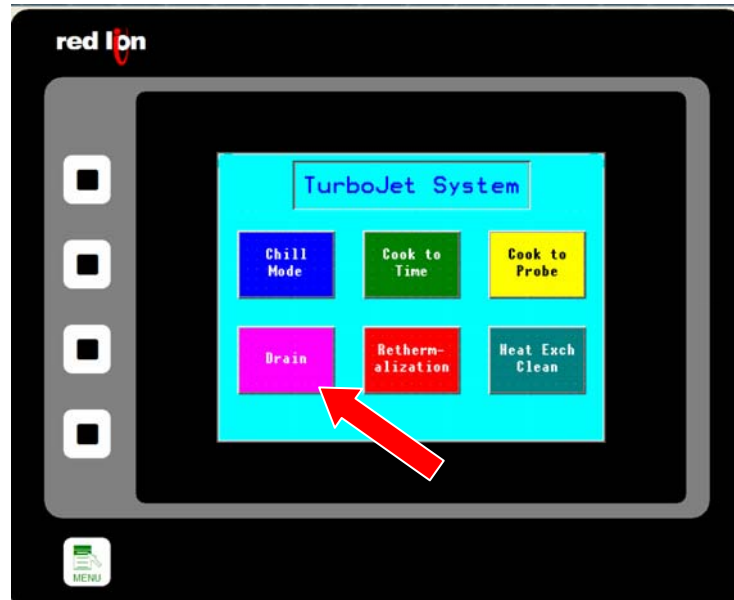


The white “Start” button will start the pump cycling water through the system. The “Start” button will be replaced by the “Pause/Resume” button once the clean cycle is started. The stage message will display the status of the process via the messages either “filling” or “heating”. Pressing the red “Modify Setpoint” button will allow you to modify the water bath temperature. The system will remain in the heating mode until stopped by the operator via the “Menu” button. Before draining the tank scrub the internal tank walls with a long brush to clean the discoloration caused by the water.

Drain the tank and rinse well with clean hot water. The “Menu” button will take you back the to main menu screen.

DRAIN OPERATION

Because the TurboJet is designed to operate on a repetitive basis the tank is not drained after the selected cycle is completed. If you desire to drain the tank after a process you must press the “Drain” button from the main menu.



This will open the drain valve and leave it open until another button is pressed either on the screen or the “Menu” button.

TROUBLESHOOTING

There are two troubleshooting screen designed into the system; a communication fault reporting screen and a touch calibration screen.

The communication fault screen will appear any time the system detects an internal communication error. Should this screen appear copy the numbers and letters after the module addresses and follow the screen instructions. Should this screen continually appear, contact your technical support personnel at Cleveland Range.

