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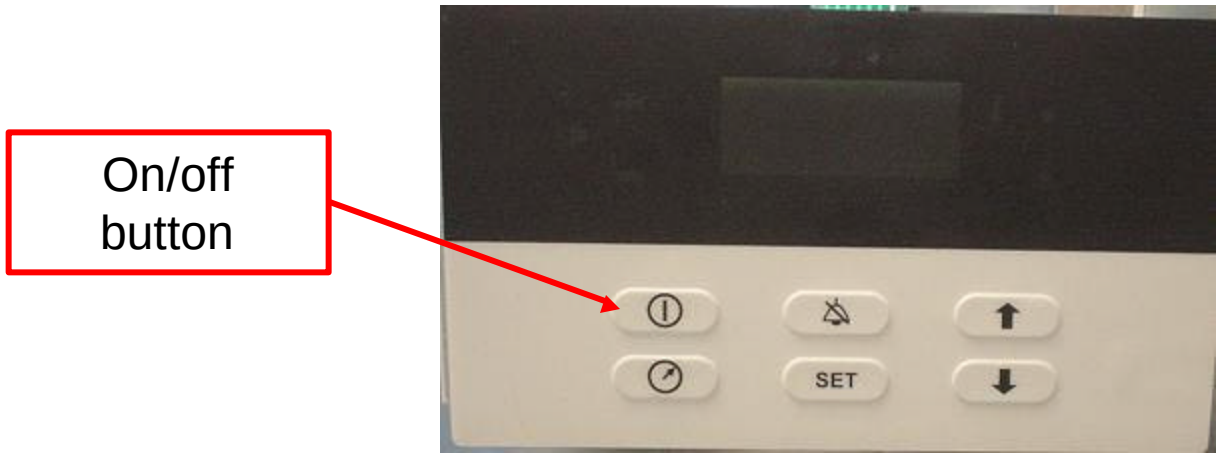
Part III: Chiller Startup



- There will be a diagnostics countdown on the front display after the power is turned on.
- Once the screen clears, press the on/off button and the chiller will start.
- Occasionally, the chiller may vibrate slightly and be noisy the first time it is started. Wait a few minutes and the noise should stop. If it doesn't, please contact the Lytron service department.

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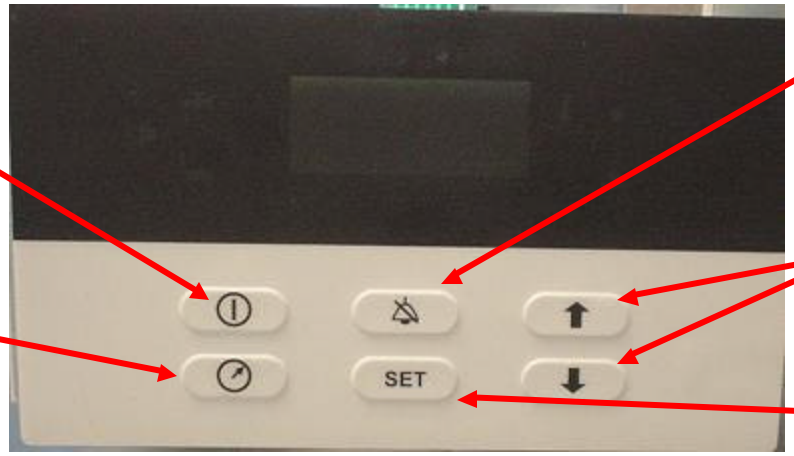
Part III: Chiller Startup
Kodiak Function Buttons



- Pressing the “SET” button will allow you to change the temperature set point of the chiller using the toggle buttons.
- Pressing the pressure button will display the water pressure coming out of the chiller’s supply line.
- Pressing the mute button will stop the alarm noise, when the audible alarm is beeping.

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Part III: Chiller Startup Controller Menu

You can access the controller menu by holding both toggle buttons down for five seconds. This allows the user to configure the chiller that will allow you to change certain settings.

- **DEGC English or Metric Units:** Changes the temperature readings on the display from °C to °F and pressure. This feature is not available if you have a 0.1° set point chiller.

- **CAL Calibration Offset:** Adjusts the reading on the display by the offset that you enter, from -4°C to 4°C (or -7°F to 7°F). This should read zero when you receive your chiller.

- **Ar Auto Restart:** When enabled this allows the chiller to start automatically in the event of a power failure or if the chiller is unplugged and plugged back in. If you manually press “off” on the chiller, the chiller will not startup automatically if Ar is enabled.

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Part III: Chiller Startup Controller Menu - Continued

- **Ot Over Temperature Alarm Set Point** (option available with controller package II and III) The indicator illuminates when the coolant temperature exceeds the over temperature set point. The over temperature set point should be at least 3°C (6°F) above the coolant set point to prevent nuisance alarms.

- **Lt Low Temperature Alarm Set Point** (option available with controller package II and III) The indicator illuminates when the coolant temperature falls below the low temperature set point. The low-temperature set point should be at least 3°C (6°F) below the coolant set point to prevent nuisance alarms.

- **AL Audible alarm** When this is enabled, an audible alarm sounds when any fault occurs.

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Part III: Chiller Startup Controller Menu - Continued

- **FS Fault chiller shutoff** (option available with controller package II and III) When enabled, this turns off the chiller when any fault occurs.

- **rS Remote Start** (optional feature) Allows the chiller to be started and stopped with a dry contact.

- **bAr** Changes the pressure display from PSI to Bar.

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Part III: Chiller Startup
Low Flow: Error 4

A low flow error may occur at startup and will be indicated by “Err 04” on the display. This happens when the flow switch on the return side of the chiller does not detect enough flow. A low flow error can have a few different causes:

- **Trapped air:** When first starting the chiller, some air may be trapped in the system. Restarting the chiller a few times usually flushes the air out. As liquid returns to the reservoir tank, the air escapes out of the vent holes. If the chiller still shuts down on low flow, try loosening the supply hose connection slightly to allow air to exit the system.

- **Flow restriction:** If there is excessive pressure drop across the coolant lines (because of small fittings, excessively long lines, kinks in flexible hoses, etc.), the internal pump bypass will open, the net flow out of the pump will decrease, potentially causing a low flow error. Reducing the pressure drop or purchasing an external flow control valve or an external pressure relief valve may solve a low flow error caused by a flow restriction.