

Big Dipper® with Sensor Control Addendum

Note: For sensor equipped Big Dipper.

5-10-11

Intro

The sensor controlled Big Dipper differs from the timer controlled Big Dipper in its operation. The sensor controlled Big Dipper is hands free, and automatically adjusts to fit each user site's grease generation profile. The fold out manual supplied with your unit is valid except for the parts concerning timer-controlled operation. For example, most maintenance instructions are still correct, and electrical & plumbing installation instructions are still the same.

Operation with Sensor Control

The sensor in the Big Dipper activates upon receiving power and immediately checks to see if there is sufficient grease in the unit to require skimming and heating of the grease. It will continue to check for grease daily thereafter. There is no "setting" of the unit required with the sensor controlled Big Dipper. If the sensor determines there is enough grease, it will skim for 30 minutes. Note: The sensor controlled Big Dipper is designed to leave a small amount of grease inside the unit after skimming.

If the sensor determines there is not sufficient grease inside the Big Dipper, it will wait and check the next day to see if more grease has been captured inside the Big Dipper. If the Big Dipper has not skimmed after several days, you may be an extremely low grease-generating site. Check inside the unit by releasing the latches on the sides of the unit, removing the lid wings, and sliding the center module to the side. Then, take a long handled spoon or ladle and gently stir around the top of the fluid inside to see the quantity of grease. If you consistently see more than 1 inch of grease over several days without any skimming, contact us with the information at the bottom of this addendum.

User Interface - LED

- Normal Operation – LED illuminated continuously
- Loss of Power – LED not illuminated
- Low Water Level – LED alternating ON and OFF for equal periods (flashing ON and OFF slowly). This indication continues until tank is filled and either a) unit is reset by disconnecting/reconnecting power or, b) next sensing cycle verifies that water level is OK. (Mode will reset without human intervention.)
- Loss of Thermocouple Connection – LED blinks 2 times quickly followed by a longer off period. This sequence continues until fault is corrected.
- Loss of Sensor Heater – LED blinks 3 times quickly followed by a longer off period. This sequence continues until fault is corrected.
- Excessive Skim Frequency - LED blinks 4 times quickly followed by a longer off period. If the sensor controller determines that the frequency of the skimming cycle is greater (more frequent FOG detection) than expected it sends this code. The unit will continue to sense and skim (operate normally) while this flashing mode exists. Removing power from the unit and then reapplying the power will reset this condition.

Jog Switch

The jog switch is normally used to check the condition and operation of the motor, sprocket and wheel. When this switch is depressed, the motor is energized and the sprocket and wheel should rotate. This check can be done at any time.

