Installation and Operating Procedures

- GRD Option

For

60100H Series

Grease Interceptor with Grease Removal Device

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1.0 General Description

The –GRD Grease Interceptor product consists of the following components:

- A 60100H Series Grease Interceptor
- A wall mountable Timer / Controller unit that contains the micro-controller electronics, control switches and indicators
- A pump and pump tray designed specifically for each size interceptor
- A 10 ft. power cable for connection of the Timer / Controller wall unit to a 115V wall outlet
- A 7 ft. cable from the Timer / Controller wall unit to the 60100H Series Grease Interceptor for power to the internal pump – routed through the 90º electrical elbow attached to the outside wall of the interceptor
- A drainable reclaim tank for grease waste

The Timer / Controller housing, connectors, control switches and indicators are water resistant for splash or light spray conditions.

The Timer / Controller product provides the following functions and features:

- User-selectable pump timer from 1-99 days (Factory set = 30 days)
- Timer controls a 115V, 12A integrated relay to power the pump
- Manual pump cycle Start / Stop front panel control
- Horn sounds prior to the start of a pump cycle
- Display toggles between Set Interval and Elapsed (days since last pump cycle)
- The controller is powered from 115VAC
- Optional reclaim tank full float switch sensor input to prevent reclaim tank overflows

Timer / Controller Unit
Figure 1-1

2.0 Timer / Controller Installation

2.1 Timer / Controller Mounting and Wiring

The Timer / Controller Unit is intended to be wall mounted.

1) Find a wall location that is within 7 feet of the interceptor and within 10 feet of a 115V wall outlet
2) Mount the Timer / Controller to the wall (hardware supplied)
3) Installation is complete

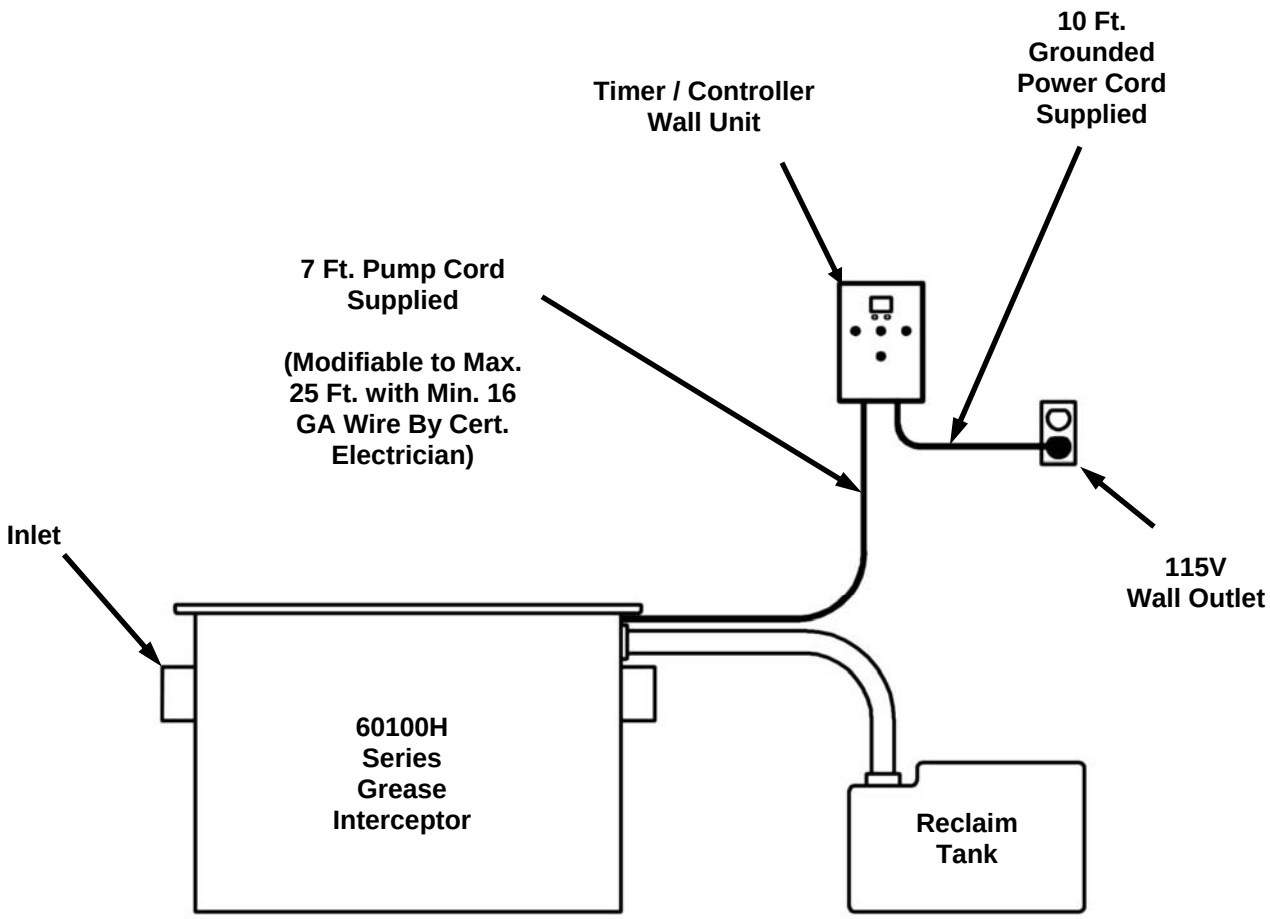
Read Section 3.0 and Section 4.0 prior to applying power to the Timer / Control unit.

WARNING:

- Any lengthening or shortening of cables must be done by a certified electrician.
- The cable from the Grease Interceptor to the Timer/Controller must not exceed a total of 25 ft. and must be done with a minimum of 16 GA wire with addition from the 90º electrical elbow – **DO NOT OPEN THE TIMER/CONTROLLER WALL UNIT**

2.2 Optional Reclaim Tank Monitor

The Timer / Controller is supplied with a connector to accept the cable from the optional reclaim tank float switch. This option will automatically prohibit a pumping cycle if the reclaim tank is full.



-GRD Typical Installation
Figure 2-1

3.0 Timer / Controller Controls and Indicators

The front panel of the Timer / Controller Unit has the following controls and displays:

Set Button - This button is pressed to initiate setting of the pump time interval in days. This button is also used to reset the elapsed days since the last pumping operation to zero.

Up Button - This button is used to increase the pump time interval days during the Set operation.

Down Button - This button is used to decrease the pump time interval days during the Set operation.

Manual Start/Stop – This button allows the user to start a pump cycle or stop a pump cycle if already initiated.

LED Digits - Two (2) digits are provided to display the pump time interval and elapsed days from 1 to 99.

Interval LED - This interval LED indicates that the LED digits are displaying the pump time interval days

Elapsed LED - This interval LED indicates that the LED digits are displaying the Number of days since the last full pump cycle

4.0 Timer / Controller Operation

4.1 Timer / Controller Power ON Check

After installation, check the Timer / Controller for proper power ON operation.

1) Turn power onto the unit. The following display sequence should occur:

   - The LED digits should display “88” followed by a blank display. The unit will also beep at power up

   - The LED digits should then display a pump time day interval value for ~10 seconds as indicated by the LED indicator below the LED digits.

   - The LED should then switch to the elapsed days display for ~3 seconds as indicated by the LED indicator below the LED digits before returning to the pump interval days display.

4.2 Timer / Controller Functions and Features

Interval Timer Setting

1) The user presses the ***Set*** button and the day interval LED digits begin to flash
2) The user presses the ***Up*** or ***Down*** button until the desired pump interval day is displayed
3) The user then presses the ***Set*** button to save the selected day interval and the display stops flashing
4) The elapsed day timer is reset to day zero and begins counting days from that point

Elapsed Timer Reset

1) The elapsed time since the last pumping operation can be reset to day zero by pressing the ***Set*** button and holding it down for > 5 seconds.
2) After the ***Set*** button is released the LED digits will display ***“CL”*** to indicate the timer has been reset.

Automatic Pump Cycle Operation

When the elapsed days reaches the value set for the pump interval days, the pump cycle will start.

1) The horn will sound ~30 seconds prior to the start of an interceptor pump cycle and the LED digits will display a flashing ***"PS"*** to indicates a pump sequence is about to start.
2) After ~30 seconds the pump will turn on and the LED digits will display ***"PO"*** indicating the pump is operating.
3) After the pump cycle is complete the LED digits display ***"PE"*** indicating the pump cycle has ended.
4) The elapsed days will then be reset to zero days as indicated by the LED digits displaying ***"CL"***.
5) The LED digit display then returns to normal operation.

Manual Start/Stop Control

1) Manual Start - To start a manual pump cycle, press the **Start/Stop** button. The pump cycle sequence is the same as in the Automatic Pump Cycle explained above

2) Manual Stop - To stop the pump (whether initiated automatically or manually) pressing the **Start/Stop** button will turn the pump off and end the pump cycle. The following will occur:

    a) The LED digits display ***"PE"*** indicating the pump cycle has ended.
    b) The LED digit display then returns to normal operation.

Note: The elapsed days **<u>will not</u>** reset unless the pump runs for the full pump time.

Automatic Pump Cycle Cancel

The automatic pump cycle will continue to attempt to run a pump cycle as long as the elapsed days is equal to, or greater than, the set number of interval days. To stop the automatic cycle, the elapsed days must be reset. To accomplish this, perform the following:

1) After the automatic pump cycle initiates press the **Start/Stop** button
2) The immediately press the ***Set*** button and holding it down for > 5 seconds
3) The elapsed days will then be rest to zero days as indicated by the LED digits displaying ***"CL"***
4) The LED digit display then returns to normal operation

Memory

The interval day setting will not change with loss of power.
The elapsed days will resume counting once the power is returned to the unit.

Reclaim Tank Monitor (Optional – For Use in larger, non-transparent tanks)

1) On detection of a closed float switch, pump operation will be prevented or immediately halted
2) The LED digits will display a flashing "FL" to indicate the float switch is closed and the reclaim tank is full. The alarm horn will sound periodically
3) Once the reclaim tank has been emptied and the float switch opens, normal Timer / Controller operation resumes
4) If the float switch closure occurs during a pump cycle (manual or automatic) and the float switch opens the Timer / Controller **will resume pumping** in ~30 seconds unless the pump cycle is halted or cancelled

5.0 Reclaim Tank

The supplied Reclaim Tank is semi-transparent so that the Interval on the Timer / Controller can be adjusted to the specific needs of each installation site.

- The pump transports the top 2” of liquid from the Grease Interceptor to the Reclaim Tank every time it cycles
- After several minutes, the liquid will separate in the Reclaim Tank – grease on top, water on the bottom
- If a significant amount of water (more than 1”) is observed after separation in the Reclaim Tank, then the Interval on the Timer / Controller is set too low – the Interval can be increased until there is less than 1” of water in the Reclaim Tank after a pump cycle (See Section 4.2 – *Interval Timer Setting*)
- If there is no water in the Reclaim Tank after a pump cycle, then the Interval is set too high – the Interval should be decreased until there is a minimal amount of water in the Reclaim Tank after a pump cycle (See Section 4.2 - *Interval Timer Setting*)
- Grease from the Reclaim Tank can be drained into a container for proper disposal
- Separated water from the Reclaim Tank can be poured into a drain

WARNING:

THE RECLAIM TANK MUST BE EMPTIED BEFORE THE NEXT PUMP CYCLE WILL CAUSE IT TO OVERFLOW

6.0 Maintenance

- The Timer / Controller requires no scheduled maintenance
- As with any grease interceptor, the inside must be completely cleared (usually 1 to 2 times per year) to remove any sediment in the bottom of the unit

Note: See further maintenance information in the Grease Interceptor manual.

7.0 Warranty

Josam Company warrants the 60100H Series Grease Interceptors with –GRD option to be free of defects in workmanship and material for a period of one (1) year following the date of shipment. Josam shall not be responsible for any labor charges or any loss, injury or damages whatsoever, including incidental or consequential damages. The sole and exclusive remedy shall be limited to the replacement or repair of the defective goods at the Seller's discretion. Evidence of vandalism, unauthorized modifications, acts of God, or failure to follow installation and operating instructions will void this warranty.