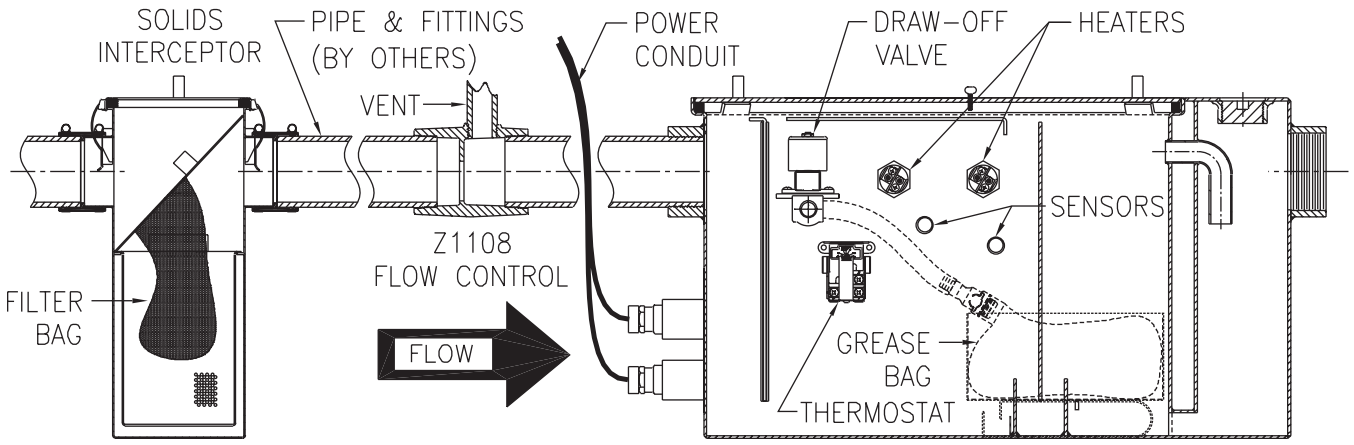
Z1192 GREASE RECOVERY APPLIANCE (GRA) – INSTALLATION and OPERATION INSTRUCTIONS



Note: Zurn Grease Interceptors with grease recognizing sensors are efficient appliances designed to separate grease from water.

SAFETY WARNINGS

- **Do not** apply power before you read and complete Start-Up List.
- **Do not** open electrical enclosure cover or remove electrical guard plate when electricity is on.
- **Do not** expose electrical components to water or grease.
- **Do not** apply power until the separation chamber of the unit is filled with water.
- **Caution – Do not** apply power until all provisions of Personal Safety Procedure #29CFR 1910.335 and Lockout and Tag Procedure #29CFR 1910.147 are in compliance.

INSTALLATION

The Zurn Z1192 must be installed **complete with solids interceptor and proper flow control unit. Electrical installation must accommodate 220 VAC and complete with 40A GFCI breaker.** Installation must be in compliance with local codes and all other regulations that may apply.

The Z1192 grease recovery appliance is **for indoors and above-floor installation only.**

VARIABLES THAT MIGHT AFFECT OPERATION

Users of the Zurn Z1192 appliance must be familiar with the variables which may adversely affect the efficiency of the interceptor. These are as follows.

1. **Flow and Velocity of Incoming Water** A higher velocity of water will contribute to a more turbulent mixture. This will slow the separation process and thereby reduce efficiency.
2. **Ratio of Grease to Water** The higher the ratio of grease to water, the lower the efficiency. This also increases the rate of draw-off and maintenance.
3. **Specific Gravity (Weight) of the Grease** Cooking greases and oils with a lower specific gravity will rise to the surface much quicker, while grease with a higher specific gravity will have a tendency to linger toward the bottom, taking a longer time to surface.
4. **Possible Presence of Detergents in the System** Grease-cutting detergents will break the grease into minute particles that can pass through the interceptor.
5. **Presence of Food Particles Mixed With the Fluid** Particles allowed to pass into the grease interceptor will allow adhesion of the grease to these particles. This reduces efficiency dramatically. Filter bags in the solids interceptor must be changed regularly to prevent the passing of solids and restriction of fluid flow from blockage.
6. **Not Maintaining the GRA Properly** Failing to replace solids filter bags or grease containment bags when required may cause the electronic logic and draw-off mechanism of the unit to malfunction. Alarms and warning displays triggered by the Grease Recovery Appliance's electronic logic must be adhered to for proper operation. Alarms may be temporarily silenced for the convenience of the user.

Attention: Operation of the unit with improperly replaced solids filter bags, or without the necessary solids filter bags is unacceptable and will damage the Grease Recovery Appliance. Should this occur, all contents must be pumped out and cleaning of the entire unit will be required.

Job condition variables may warrant the use of a larger size interceptor than normal sizing indicates. This will help to ensure efficient operation as variables change throughout the operation cycle. Local code requirements prevail and may warrant alternate sizes.

Prior to doing any troubleshooting on a unit which appears to be malfunctioning, make certain that none of the variables which affect the operation of the unit are present.

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WIRING INSTRUCTIONS

1. After the digital display box and electrical components box are mounted in the desired location, open the cover to the electrical components box.
2. Locate the ground and the two terminal power block wires each inside.
3. Wiring from the block and ground are to be connected to the dedicated 220V GFCI service.
4. Plugs from the conduit wires out of the electrical components box are to be connected to the outlets on the front of the unit.
5. All wires should be run in conduit, and in compliance with local codes and regulations.

Attention: As with all commercial electrical equipment, a trained electrician should complete the electrical installation of the Grease Recovery Appliance.

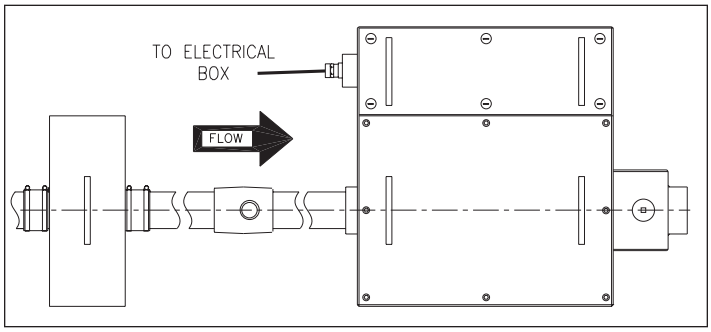
START UP LIST

1. Be sure that power is OFF (circuit breaker in off position).
2. Make sure that all connections and fittings are tight and secure.
3. Check solids interceptor to verify that filter bags are in place and solids interceptor cover is secured.
4. Verify that the flow control fitting was properly installed and vented to atmosphere.
5. The digital display box should be readily visible.
6. Remove the main grease interceptor cover and the side enclosure cover.
7. Check that the baffles are installed and secured; check that the grease containment bag is in place.
8. The electrical components box should be connected to dedicated 220V 40A 60Hz GFCI service, and conduit wires from the electrical components box to unit should be plugged in. **DO NOT turn power on.**
9. Go to source that flows into the interceptor and turn on lukewarm water. Watch for leaks from both the interceptor and the side enclosure around the sensors.
10. Turn water off once the unit has been filled completely to the inlet/outlet height.
11. Verify that the sensors are now totally immersed in water along with the bottom half of the heating elements. Failure to add water before powering on the unit will result in an improper start up and could damage the Grease Recovery Appliance.
12. Replace both covers on the interceptor. If all steps were completed to this point, turn the Power On.
13. If all functions are normal, the digital display should activate and show the Z1192 model number.
14. If a problem is found, an alarm will sound. Power Off, check connections and redo the start up procedure. Verification of the internal electrical connections may require removal of the guard plate in the side compartment of the unit and should be done by a trained electrician.
15. If there is no alarm and the Z1192 model number is displayed then the unit is now operational.

Z1192 GREASE RECOVERY APPLIANCE (GRA) – DAILY OPERATION and MAINTENANCE

DAILY OPERATION AND MAINTENANCE

1. The solids interceptor filter bags must be replaced on a regular basis. Volume of debris entering unit will determine the replacement schedule. Emptying and cleaning of the solids basket and container should be done periodically.
2. The main grease separating chamber of the unit should be opened, checked, cleaned of debris and the sensors wiped off on a monthly basis. If the unit is not properly maintained flow may be reduced causing backup or malfunction.
3. When a grease containment bag requires replacement, once this is completed by the user the reset button must be held. This resets the logic back to normal operation.
4. **Caution:** If substances other than oil have entered the unit, noxious odor may be present.
5. If an alarm with Caution or Warning message is displayed, it may be caused by abnormal or improper usage of the unit. Running hot water through the unit could resolve the issue, otherwise cleaning the entire unit may be required. See Cleaning Procedures.
6. Power to the unit should be turned Off, accumulated grease and oils must be removed, and clogged components must be cleaned. If these steps are not taken, performance of the interceptor will be compromised and unit may not function properly. Unit will still operate as a passive trap.



Z1192 Top View

7. **Caution:** There are regulations in all areas regarding the proper disposal of grease and oils. It is Illegal to dispose of these in any other manner.
8. Once all the greases and oils has been removed and the unit has been cleaned, turn on water to the interceptor and raise the static water level inside the unit up over the level of the sensors as done in its initial installation.
9. Once the interceptor has been filled with clean water, replace the covers and turn the Power On.
10. If all these steps were followed properly, the display should return to normal and the alarm turned off.

If you have any other problems or issues requiring attention, contact your local Zurn Representative or contact Zurn Industries at 814-455-0921.

Z1192 GREASE RECOVERY APPLIANCE (GRA) – INSTRUCTIONS FOR CHANGING GREASE BAG

INSTRUCTIONS FOR CHANGING GREASE BAG

An alarm will sound once the replaceable Grease Bag in the unit has reached the appropriate capacity. This alarm notifies the user that the Grease Bag must be changed. Pressing the alarm silence will suspend the alarm for twenty minutes if the bag cannot be changed immediately; however, changing the bag will still be required.

1. Remove the screws holding the smaller Side Compartment Cover.
2. The location of the Grease Bag will be near the outlet side of the unit, opposite of the electronics Guard Plate.
3. The Guard Plate covers various electrical components and should not be removed.
4. The coupling connection for the bag should be visible and readily accessible.
5. Firmly press the release button on the Universal Coupling.
6. Pull the Disposable Coupling on the Grease Bag out of the Universal Coupling.
7. Carefully remove Grease Bag from Grease Bag Reservoir by pulling bag straight up and out of the side compartment. Grasp Grease Bag firmly with two hands when removing, while being careful not to snag on possible obstructions.
8. Dispose of grease in accordance with your local codes. Zurn is not responsible for improper disposal of grease.
9. Place new Grease Bag with Disposable Coupling already attached, into Grease Bag Reservoir. Grease Bag should be placed flat with coupling faced upward. To order replacement grease bags contact your local Zurn representative.
10. Insert Disposable Coupling into Universal Coupling, making sure the two couplings are properly engaged. When the couplings are properly engaged you should hear a click and the button on the Universal Coupling will be in its uppermost position.
11. Lightly pull on the two separate couplings to verify that they do not come apart. If couplings come apart, reinsert couplings and check engagement again.
12. The coupling connection should be positioned above Grease Bag Reservoir.
13. Make sure the entire bag is in Grease Bag Reservoir and the corners of the Grease Bag are not folded underneath itself, so that the bag can be filled fully without obstruction.
14. Once these items are completed, place the Side Compartment Cover back onto the unit and fasten the screws accordingly.
15. Hold the Reset Button for approximately 5 seconds until the display resets and is back in normal operational mode.

Z1192 GREASE RECOVERY APPLIANCE (GRA) – INSTRUCTIONS FOR CHANGING FILTER BAG

INSTRUCTIONS FOR CHANGING FILTER BAG

1. Bags should be replaced as needed for a given facility.
2. Verify that all sinks and appliances which drain into the solid interceptor are empty and not in use.
3. Remove cover by unbuckling the four cover retaining clips.
4. Lift up on the handle of the Filter Retainer Plate to remove.
5. Using handle inside bag, lift Filter Bag out of Filter Retainer Plate.
6. Dispose of used Filter Bag.
7. Repeat removal and disposal of all Filter Bags.
8. Place a new Filter Bag into each hole in Filter Retainer Plate.
9. Correctly place Filter Retainer Plate back into Solids Interceptor Body.
10. The Filter Retainer Plate should be oriented so that the Filter Bags are located along the lower half of the plate, as removed.
11. The Retainer Plate will be angled in a manor that allows fluid to flow into the inlet side of the filter bags.
12. Position cover on solid interceptor and fasten with retaining clips.

Z1192 GREASE RECOVERY APPLIANCE (GRA) – CLEANING PROCEDURES

CLEANING PROCEDURES

The Z1192 GRA should be cleaned no less than once every six months.

1. Turn off Z1192 GRA at the source, making sure there is no power going to the unit.
2. Wait for unit to cool.
3. Make sure all sinks, dishwashers, etc., that drain into the GRA are off and empty.
4. Remove all screws holding main cover onto the GRA. Do not remove cover to the side compartment.
5. Lift main cover off of unit by using lift handles on main cover.
6. Take out baffle by lifting straight up on baffle lip and clean it of any grease or residue build up.
7. Drain unit completely of all grease and remaining fluid.
8. Clean all surfaces on inside of interceptor, making sure that all grease, food particles, dirt, etc., is removed.
9. Carefully remove any built-up residues from sensors by gently wiping them with a soft, clean rag.
10. Place baffle back into its proper position by sliding it into the channel with the lip facing the inlet of the GRA.
11. Place main cover back on unit in its proper position and tighten screws so that the unit is sealed.
12. Remove screws holding side compartment cover.
13. Remove side compartment cover by lifting up on the lift handles. Removing the electronics guard plate should only be necessary if the draw-off valve or discharge hose require unclogging.
14. If guard plate is removed, be cautious not to contact any electronic components other than the draw-off valve. **Verify all power to the GRA is off.**
15. Remove grease bag (see Changing Grease Bag Instructions).
16. Carefully clean any grease that is on grease bag reservoir.
17. Remove universal coupling from hose by unscrewing hose clamp.
18. Clean universal coupling with hot water to remove any built-up grease inside the coupling. Otherwise order replacement universal coupling and install the new one.
19. Remove the discharge hose by unscrewing second hose clamp.
20. Clean inside of hose with hot water, if necessary use a small diameter rod to push out any solidified grease.
21. Flushing out the draw-off valve with hot water may be necessary if there is any build up from grease.
22. Manually turn valve into the open position by pushing down and turning large round button on top of solenoid valve, until arrows on button show valve is open.
23. Clean out any obstructions, then turn valve back to the closed position again.
24. Begin putting parts back together.
25. Connect the discharge hose back onto elbow by pushing hose onto elbow until it bottoms out on nozzle.
26. Slide hose clamp over hose and elbow, then tighten.
27. Slide other hose clamp over hose and place universal coupling back into the discharge hose.
28. With hose clamp over hose and coupling, tighten the clamp.
29. Replace the electronics guard plate into its proper position if it was removed.
30. Place grease bag into grease bag reservoir as described in Changing Grease Bag Instructions.
31. Connect grease bag to universal coupling as described in Changing Grease Bag Instructions.
32. Place side compartment cover in its proper location on GRA and tighten screws.

Remember to completely fill the GRA with water before turning the power back on.