Automatic Grease Removal Unit with Automatic Solids Transfer

USER INSTALLATION OPERATION & MAINTENANCE

GGX 75, 125 (AST) models

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Contents

Introduction -Grease Guardian X AST series	4
Product Dimensions and Specifications	5
Installation	6
Normal Operation	8
Cycle Programming	9
Programmable Controller—Further Features	12
User Maintenance	14
Troubleshooting	15
Wiring Diagram	18
Standard Warranty	19

Introduction—Grease Guardian X AST Series

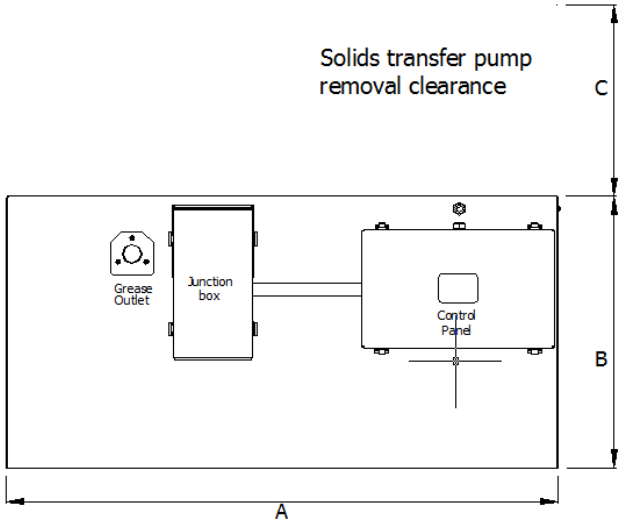
The Grease Guardian X series automatic grease removal unit (AGRU) with Automatic Solids Transfer (AST) is a totally engineered system for separating free floating grease and oils from drain water flows.

The Grease Guardian can be used in a wide variety of applications from restaurants and food processing operations to many types of industrial operations. Solids from kitchen wastewater are trapped in the first compartment of the system from where they are periodically transferred to the outlet pipe. The screened flow enters the main grease compartment where grease and oils are trapped and automatically recovered by the unique Skimming drum within the system. Only the "cleaned" water is allowed to pass through the system into the drain lines. The system automatically performs a wash cycle of the inlet mesh screen and the wiper blade arrangement.

Use of the Grease Guardian assures that costly sewer surcharges and fines are minimized or eliminated through efficient separation and removal of the grease and oil. In addition, rapidly escalating pumping and disposal costs, which are associated with conventional grease traps or interceptors are also reduced or eliminated. The recovered grease and oils are virtually water free so they can be collected by a local rendering company or recycler.

Product Dimensions and Specifications

FRONT



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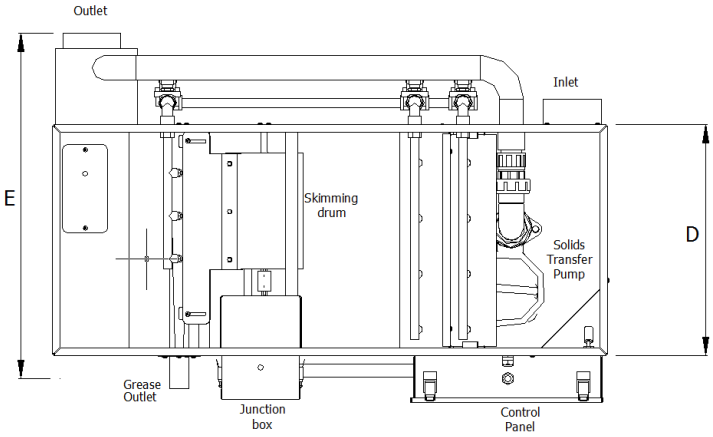
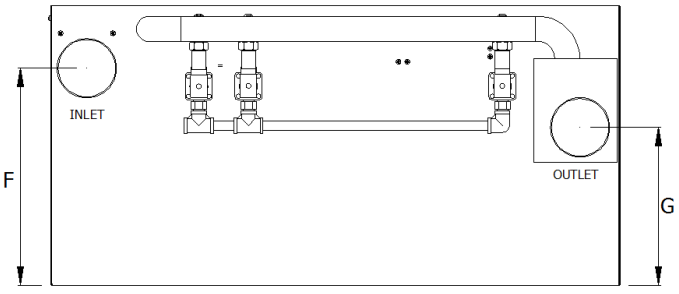


REAR



All dimensions in inches

AST MODEL	A	B	C	D	E	F	G	Inlet pipe	Outlet pipe
GGX75	43.4	21.3	18	18	31	16.5	12.5	4	4
GGX125	59.1	24.5	18	18	31	18.1	14.1	4	4

AST MODEL	GGX75	GGX125
Hydraulic Flow gal/min	75	125
Grease Retention Capacity lbs	150	300
Net system weight (empty) lbs	240	290
System weight full (in operation) lbs	630	940
Electrical load (max)	12.7 A	18.4 A

Casing Material	16 Gauge AISI 304 Stainless Steel; Bright finish
Motor	25 Watt, 110v, 60 Hz 4.5 µF capacitor
Heater rating	600 W for GGXX75 1200W for GGX125 (thermal cut-out included)
Time Control	Programmable Logic Controller with settle-able 4 hr cycles and 7 day timer
Skimming	20 pounds/hr
Solids transfer pump rate (flow/head max)	70 gpm / 13.5 psi
Hot wash water system operation requirements (minimum flow (gpm), pressure (psi) and tem-perature range)	12gpm @ 43.5 psi (water temperature range 100 to 150 deg F)
Power supply	110V, 60 Hz, 1 phase

Installation

Unit Positioning— To plan a suitable location for the GGX first refer to “Product Dimensions and Specification” page in this manual to check available clearances. Position the unit as close as possible to the fixture it is serving to minimize grease build-up in the piping. In order to avoid possible corrosion problems, if the unit is positioned directly on the floor, ensure that the bottom is sealed to the floor by using an approved silicone sealant. Do not connect the system to food grinders, potato peelers or waste disposal units. Such installations will void Grease Guardian's Warranty.

Inlet piping— Drain piping from the sinks/oven should be 2 inch Ø (50mm) minimum. Ensure that a fall of 1/3” inches per feet (1:40) is used and keep the inlet pipe as short as possible to avoid grease build-up before it reaches the unit. If the unit is serving more than one fixture ensure that the respective drain pipes and joined in a T-piece before they enter the unit piping. Install “P” or “U” Traps before inlet on sinks as normal. Rubber Couplings with screw clasp are included.

Outlet piping— Keep the outlet piping as straight as possible, only use "sweep" connections and minimize the number of bends used. Do not reduce the size of the pipe used in the outlet, keep the outlet piping as short as possible and do not install any “P” or “U” traps (the units has an in-built internal gas trap). If the unit overflows during operation the problem normally lies with the size and layout of the outlet piping which is not fit to take the full flow freely.

Flow controller— If your plumbing code requires a vertical type flow regulator, and for high head height applications (over 6 ft, such as when installing units in basements) and to comply with PDI requirements, a proper flow control device with air intake must be fitted on the inlet piping. Suitable air intake pipework should be routed to the top of this component and connected to a vented waste stack within the building. Note that if the Grease Guardian is serving multiple fixtures, some plumbing codes ask that each fixture is equipped with its own flow control device.

Inlet and Outlet piping connections— Rubber Couplings with screw clasps are included.

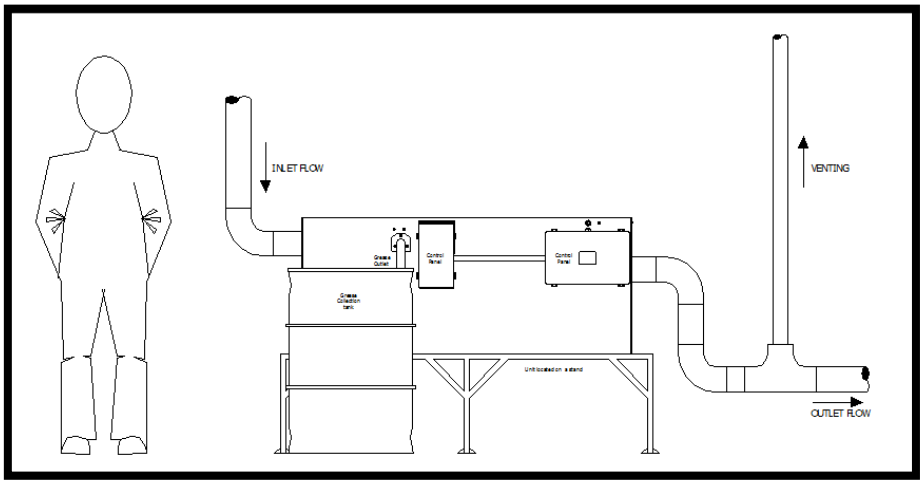
Single Phase Three Pin Plug – Connect to water proof socket. To provide continued protection against risk of electric shock, connect to properly grounded outlets only.

Venting—To avoid possible siphoning problems, an outlet pipe vent (or code approved air admittance valve) which is at least 1/2 the outlet pipe diameter should be located as close as possible to the Grease Guardian unit.

Automatic spray wash— Each Grease Guardian X AST unit comes complete with three automatic wash spray bars, one located in the screenings chamber and the other two in the main grease collection chamber. A hot water supply is to be plumbed to the water inlet connection.

All instructions and drawings provided in this booklet are for reference only. The unit provided is to be installed in compliance with the local legislation, regulation and codes. Installation by a qualified plumber who is knowledgeable with the local plumbing code is necessary

Installation (continued)



Pre Start Up Checks

1. Ensure unit is positioned on a level surface only and is plumbed in securely. If sitting on the ground, the unit bottom must be sealed to the floor using an approved silicone sealant

2. The Grease Guardian unit should only be plugged into a properly grounded 3-prong 115VAC outlet. Ensure electrical outlet is waterproof and is fitted with or supported by a dedicated ground fault circuit breaker/interrupter (GFCI)

Points 3 and 4 below should normally be carried out by your market representative as part of formal unit commissioning:

3. Prior to mains switch-on ensure the unit is filled with enough water so that it overflows to the outlet pipe.

4. Set the controller time of day and appropriate cycle programme in accordance with timer setting instructions detailed in this Operations Manual.

HEALTH, SAFETY AND EFFICIENCY

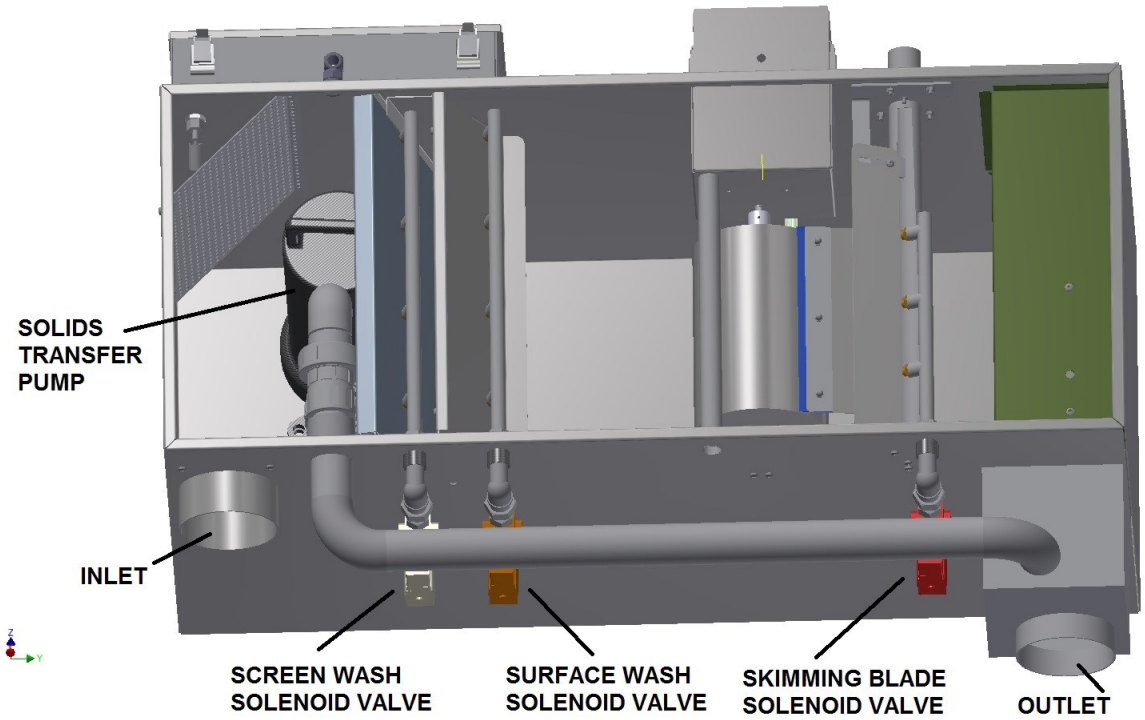
- Never turn the unit on before filling with water as instructed above.
- Disconnect unit from mains before accessing any electrical components.
- The unit requires weekly user maintenance
- Quarterly service by approved engineer is recommended
- The unit will lose efficiency if not properly maintained as instructed
- The unit is designed to trap and remove free floating grease oils and fats only
- To help ensuring the highest grease removal efficiency, reduce solid food waste by installing primary strainers or scraping waste into bins. The unit is provided with an automatic solids transfer system to provide protection from solid food waste build up in the unit when properly maintained.
- Consult your supplier in the event of increased loadings to the Grease Guardian
- Do not use Hazardous detergents to clean unit, and do not pour detergents or chemicals directly into the unit
- Do not install unit externally unless weather proof cover is used
- Do not install the unit in any manner except as per the local plumbing code and as instructed in the Operation Manual
- Do not connect food grinders, potato peelers and/or waste disposal units or similar devices upstream of the Grease Guardian
- Ensure the unit is level and installed flat on the ground or frame where specified
- Remove blockages and grease build up from drains before installing the Grease Guardian

Normal operation

In normal operation, the unit will require minimal operator input. The system has a number of automatic functions as described below, with the main manual function being the removal of the collected grease from the collection tank.

Flow from the kitchen fixtures enters the inlet side of the unit, the solids collection compartment. Solids will accumulate in this compartment, with settleable solids falling to the bottom and floating solids and grease settling of the water surface. The solids at the bottom are transferred to the outlet pipe on a timer basis by a submersible pump. Solids that settle on the surface with the grease are trapped on a stainless steel mesh and washed back into the solids compartment. Free floating grease is allowed to pass through the stainless steel mesh and into the grease collection compartment. The operation of the submersible pump is controlled by a timer in the PLC and by two level sensors which stop the pump at low level and automatically start the pump at high level if the water level in the inlet compartment is too high due to blockages in the stainless steel mesh screen

The grease that passes to the grease collection chamber is periodically skimmed out of the unit by a skimming drum. An automatic spray bar operation comes on for short bursts during the skimming cycle to aid the movement of the grease towards the skimming drum. Another automatic spray bar operation washes the skimming blade and collection through after the skimming cycle is complete.



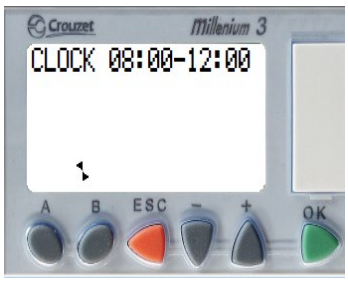
Cycle Programming

Programming Cycles

HOME DISPLAY

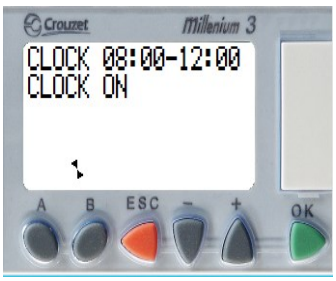
1. Home Screen

After machine switch-on, the home screen appears displaying the controller software version (in this case 5075AST v1). The current time of day, and cycle mode are also displayed. The unit displays "Standby" when not in cycle. Note also that the factory default skimming cycle is set to 8am-12pm with a skimming duration set to LOW cycle mode.

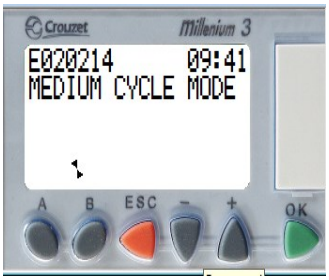


2. General Skimming Cycle Setting:

To change the Skimming cycle first choose from one or more of the 4 hour programs 08:00-12:00, 12:00-16:00, 16:00-20:00, and 20:00 –00:00, These displays are accessed by pressing the **A** button. Then advance through the 4 time slots available by re-pressing **A.** Note that after these displays the Pump setting display will appear. To return to the first clock display, CLOCK 0800-1200, simply advance using the **A** button until it reappears. To return to Home Display at any time press **ESC**



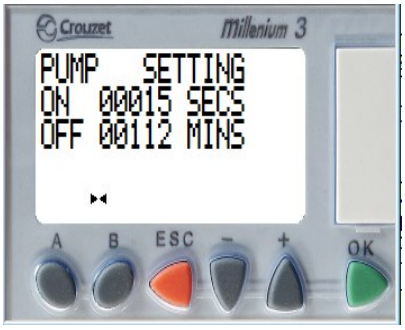
Any of the time-slots can be set to ON/OFF by pressing the **B** button. On completion either press **ESC** to return to the home Screen, or if intending to set further controls for the pump, blower and spray bars then instead continue to Press **A** to advance to these displays which are further described on the next page



In the home screen the skimming cycle can be optimised by pressing and holding the + **or** - keys for 1 second. The display will indicate the adjustment made from 3 options

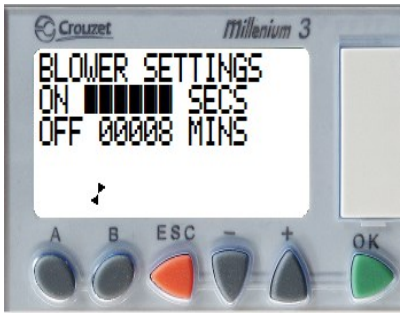
- LOW Cycle Mode (125 minutes)
- MEDIUM Cycle Mode (170 minutes)
- HIGH Cycle Mode (200 minutes)

Cycle Programming (continued)



3. Pump Cycle Setting:
This display sets the GGX AST Submersible pump to remove sludge from the base of tank daily. The Default timer setting is: 5 seconds ON and 120 minutes OFF. The times can be changed and are accessed via the OK button. The values are changed by then pressing "+" repeatedly to increase or "-" to decrease. Press OK to confirm setting and move the flashing bar cursor to the next time value by pressing "+" or "-". On completion press **A** to advance to next display option (Blower Setting) or press ESC to return to Home Screen

As soon as the pump cycle starts, the screen wash solenoid valves opens for 20s to clean the screen from solids



4. Blower Cycle Setting (OPTIONAL add-on)
This display sets the GGX Air Scour Blower to direct the surface grease into the skimming zone. The Default timer setting is: 5seconds ON and 1 minute OFF. The times can be changed and are accessed via the OK button. The values are changed by then pressing "+" repeatedly to increase or "-" to decrease. Press OK to confirm setting and move the flashing bar cursor to the next time value by pressing "+" or "-". On completion press **A** to advance to next display (Surface Wash Settings) or ESC to return to Home Screen

5. Surface Wash Cycle Setting:
This display sets the surface wash to disperse floating scum and further direct surface grease towards the skimming drum during the skimming operation only. Default timer setting: runs for 5 seconds ON and 1 minute OFF. The times can be changed and are accessed via the OK button. The values are changed by then pressing "+" repeatedly to increase or "-" to decrease. Press OK to confirm setting and move the flashing bar cursor to the next time value by pressing "+" or "-". On completion press **A** to advance to next display (Drum

Cycle Programming (continued)

6. Drum Wash Cycle Setting:
This display sets the Drum wash to clean debris from the skimming drum at the end of any cycle. Default timer setting: runs for 10 seconds ON. The time can be changed and is accessed via the OK button. The values are changed by then pressing "+" repeatedly to increase or "-" to decrease. Press OK to confirm setting. On completion press **A** to advance to next display (Drum Wash) or ESC to return to Home Screen

The Home Screen displays the following during a Skimming cycle.

During a cycle the heating element and skimmer motor are activated intermittently to heat up and skim fats oils and greases. The main display flashes the message **IN CYCLE.**

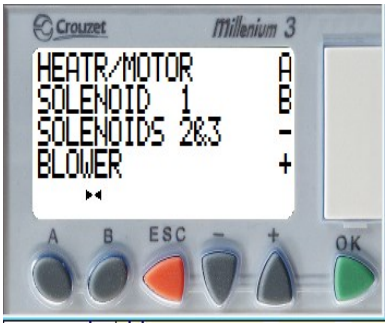
Programmable Controller : Further features

1. Heater Mode OFF

If wastewater entering the unit is already hot (55 C+) or in applications where only light oils are being intercepted, the heater element may not be required. With this in mind there is an option to run the skimming cycles with the heating element deactivated. This feature will provide savings on energy bills.

To disengage the heating element:- from the Home Screen hold in button **"B"** for 10 or more seconds. The display appears as shown. In this mode the system runs any cycle with only the skimmer motor running at its normal pre-set operation.

To re-engage the heater function simply hold in the **B** button again for 10 seconds until The "HEATR OFF MODE" is



2. Test Mode

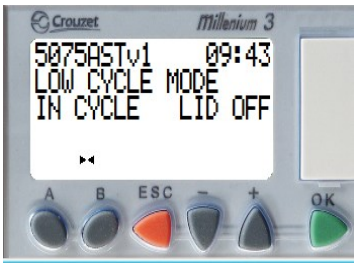
A spot test of the main GGX electrical components can be carried out from the controller to confirm functionality. From the Home display press the **-** and **+** buttons SIMULTANEOUSLY to access the TEST screen, shown left. Next press one of the Test mode keys below to activate components instantaneously:

Press **A** key to activate Heater & Motor Operation.
Press **B** key o activate Screen Wash (Solenoid valve 1)
Press **-** key to activate both surface wash and drum wash (Solenoid valves 2&3)
Press **+** key to activate Blower system

On completion return to Home Display by pressing **ESC.**

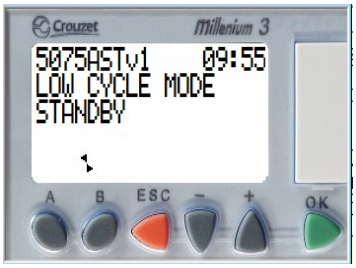
NOTE: The GGX submersible pump is not tested from this display but can be tested via a push-button located externally on the control panel housing.

Programmable Controller : Further features (continued)



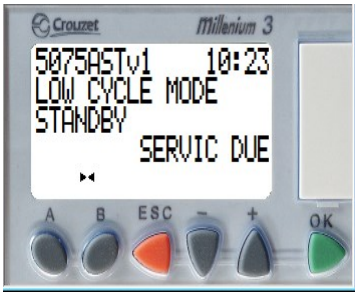
3. Lid Alert OFF

If the main tank cover is removed from the unit at any time both the heater and motor will be stopped automatically for safety reasons. The display will flash a **LID OFF** alert until the lid is replaced. Power is restored to the heater and motor after the lid is replaced



4. Daily Maintenance Access Times—Standby Mode

Once or twice daily the plastic grease collection container should be checked and emptied. It is preferable that this is only carried out when the unit is NOT in cycle and is in **Standby** as shown on the display.



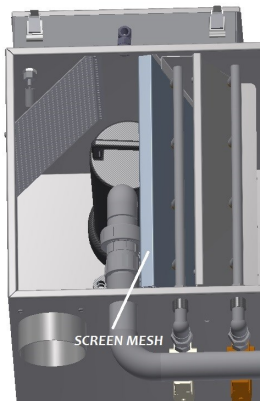
5. Scheduled Service Reminder

The Grease Guardian unit requires periodic service inspection and pump out by qualified personnel. To assist, the controller is pre-set to display a service due reminder as shown on the due date. Please contact your Service Provider when this display appears. The reminder will normally flash at least once every 90 days in line with service and

User Maintenance

Daily/Weekly/Monthly user maintenance

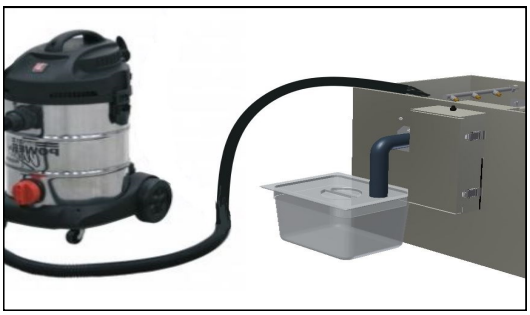
WEEKLY: remove the grease from the grease container and dispose of properly



WEEKLY/MONTHLY: Pull out the mesh screen and wash under hot water to remove any blockages obstructing the flow (Frequency depends on the level of contamination)

MONTHLY CHECKS:

- Open the lid cover and check for any accumulated solids in the solids compartment. Force the solids transfer pump on by manually pressing the push-button located underneath the control panel box. Tap water may be needed to help push the solids towards the pump inlet
- Check that the three automatic spray wash cycles come on
- Ensure that the skimming blade is touching the skimming drum evenly along it's surface and check the state of the plastic wiper blade
- Check that there are no obstructions on the grease trough
- Perform a PLC program test to confirm that all the components are functioning properly



Outsourced Servicing-
Quarterly Inspection and Pump Out

To guarantee maximum efficiency the unit should be inspected mechanically and pumped out quarterly throughout the year. This is to be carried out by a licensed waste collection company with prior training on the GGX product. During such a service the main lid is removed and the internal chamber walls are power/steam cleaned. To allow transfer of water from the grease chamber to the pump chamber a flap needs to be opened by pulling the divider vertically upwards. Both chambers are then pumped out completely with a wet vacuum. The unit is refilled using the water flow from the sink. The unit timer control and components are to be inspected and tested during each service visit. Any wear and tear parts are to be replaced if necessary.

Troubleshooting

❶ PROBLEM: Unit not removing grease

Is the power on?
Check that the power is on and that the time control is set correctly. If the power is being supplied and there is no display check fuses or contact your supplier.

Is wiper blade clean?
Open the main lid and clean any build-up present on the wiper blade assembly. Ensure the wiper blade is bolted in place and makes proper contact with skimming drum. Ensure that the automatic wash cycle of the wiper blade is functioning

Check the cycle status
First check that "IN CYCLE" is displayed at the start of a cycle. Later in the cycle the skimming motor should be audible. Should there be no skimmed grease emerging during the cycle a further test can be conducted by entering TEST mode as described earlier in this manual. With the main lid removed and **with hands kept clear of the skimming drum** use this feature to check that the motor is running during the TEST mode.

Inadequate Heating?
If the drum is turning but grease is not being removed it may not be dissolving or separating out. If the grease appears hard or crusted, the GGX heater may require inspection or replacement as the grease may not be dissolving. The unit might require emptying and cleaning from sludge.

Emulsified/starchy foods, or soaping problems in the waste flow?
If the surface grease layer is liquid or foam-like in appearance and grease is still not skimming out then it may contain high volumes of dairy waste such as mayonnaise, or starchy waste from rice or pasta. Ensure to reduce volumes of this waste entering the GGX unit. Ensure that the automatic rinse system is being activated. Also ensure to reduce the use of aggressive detergents and do not dispose any bleaching agents into the unit. Only neutral hand washable detergents should be used at the sink. Heavy oven cleaning agents can adversely affect performance if ovens are connected to GGX.

Check the main Lid and Lid-switch
The unit will not operate with the lid removed . This is a safety feature. With the exception of some maintenance tasks the lid must be fastened in place correctly at all times so that the pushbutton switch is depressed by the lid pressure tab. If this is not the case then the controller display will blink a LID OFF message.

If the message continues to show but the lid seems secure then there may be a fault with the lid switch.

Troubleshooting (continued)

❷ PROBLEM: Standing water inside the grease collection container

Check Timer Settings
The unit will skim off water if there is little or no grease left in the main tank. Excessive water will typically settle below the grease layer in the collector. Check the timer settings for excessive ON times. The ON time should be scaled back to reduce water being skimmed into the collector. The HIGH or MEDIUM Cycle Modes can be toggled back to LOW Cycle mode for example as described earlier in this manual

❸ PROBLEM: Surge Water in grease collector and/or spillages onto floor

In rare cases an obstructed exit from the unit may lead to level rises in the main tank which can spill into the grease collector suddenly and in turn onto the floor, if left unchecked.

Ensure the outlet pipe-work from the Grease Guardian is at a gravity fall of 1:40 minimum. Any restrictions in the outlet pipe due to a number of bends and T-pieces before it reaches the outlet end should be reduced. Ensure the outlet pipes from the unit are not smaller than the outlet pipe connection on the unit. Larger pipe sizes are better to reduce the flow restriction.

Ensure that the water flow to the unit does not exceed its rated flow in gallons per minute.

Also ensure that there are no drain line blockages downstream from the unit. Ensure the unit is pumped out at least once quarterly so that sludge does not obstruct the passageways within the main tank.

Water ingress in the grease container could also result from a long wash cycle of the skimming drum. Reduce the time to minimise water ingress.

❹ PROBLEM: Sink flow rate is suddenly reduced

Check for blockages in the inlet gasket located on the inlet side of the unit
Solids might accumulate on the inlet gasket of the system and require cleaning by accessing the inlet gasket from inside the pump compartment of the unit.

Check the operation of the solids transfer pump and the mesh screen
A high build-up in the solids collection compartment can result in a reduced flow in the inlet pipes. Check the solids pump operation, check that the level sensors are not covered in solids/grease, ensure that the mesh screen spray bar operation is functioning, clean the mesh screen by pulling out of the unit and wash using hot water.

Troubleshooting (continued)

❺ PROBLEM: Odor reported

Has maintenance been carried out?
Ensure the mesh screen is pulled out weekly and cleaned. Ensure the tri-monthly pump out (every 90 days) is carried out so that any standing sludge is removed. Also seek to prevent any non-skimmable waste from entering the unit as already advised earlier.

Scrape visible plate waste to bin rather than rinsing this entirely into the Grease Guardian.

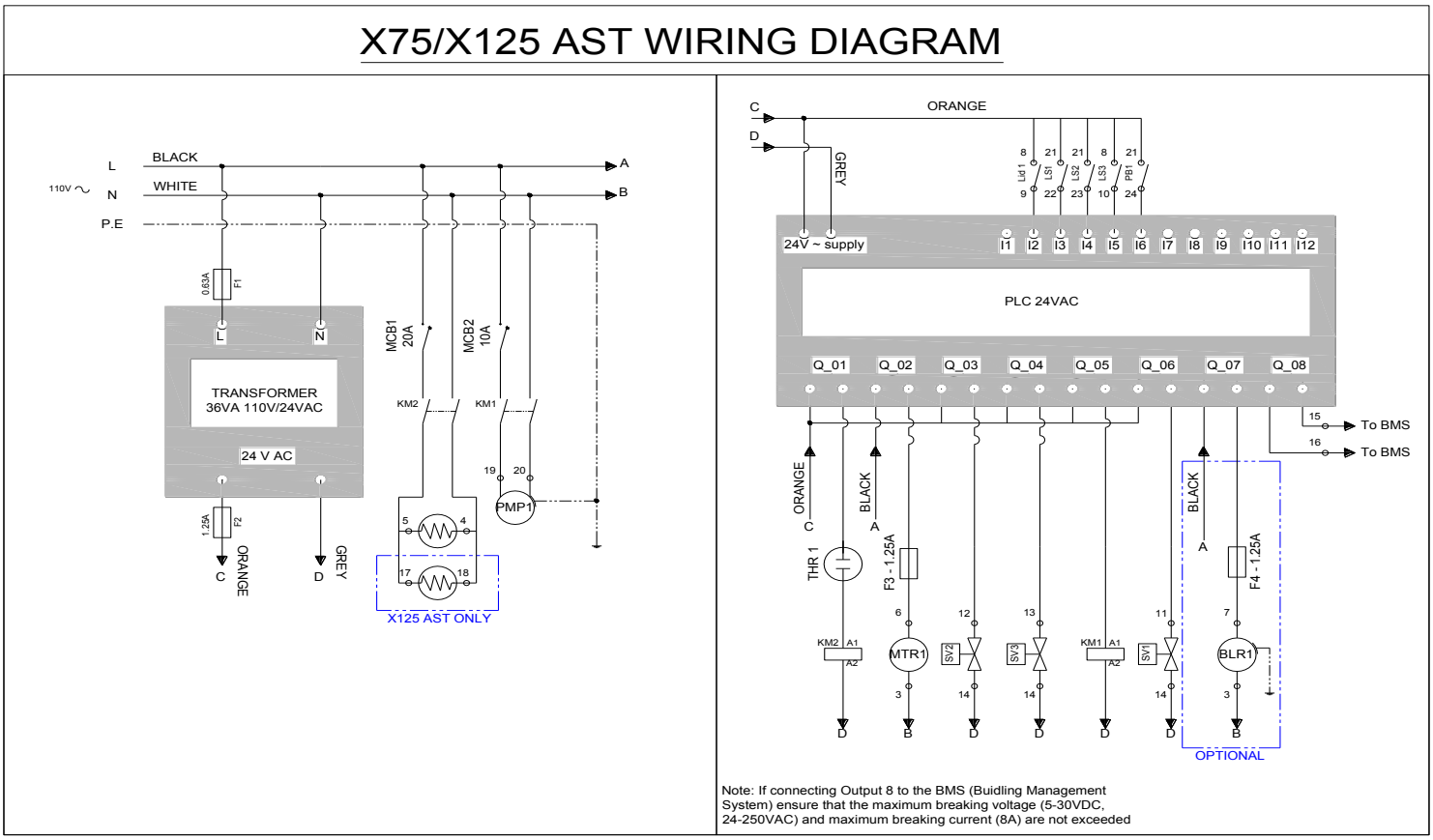
Stagnant Water
For applications where a connected sink or oven has a very low flow ensure to flush the Grease Guardian unit with fresh water weekly to reduce stagnant water.

Venting
Ensure that the outlet of the unit is properly vented, so any odors are exhausted away. On rare occasions, if the vent pipe is directly connected to the sewer stack, odor from the sewer stack might come back to the unit. Investigate if the odors are external to the unit.

Wiring Diagram

The system comes pre-wired and ready to be plugged into a waterproof properly-grounded 3-prong 115VAC outlet. The socket outlet should have a dedicated ground fault circuit breaker/interrupter (GFCI). All electrical wiring connections must be performed by a qualified electrician and the he local electrical standards for connecting up he system should be followed at all times .

Ensure that the system is filled with water before it is plugged in and the cycles set.



The unit can be connected to the BMS (Building Management system) through Output 8. During normal operation contacts on Output 8 are closed, indicating that there is Power on the system and that the daily cycles are in operation. If the unit is switched off or if the tank lid is removed for more than 10 minutes, Output 8 will open to indicate that the system will not skim out grease.

Standard Warranty

Grease guardian LLC warrants, to the original user, that those products supplied by it and used in the service and in the manner for which they are intended shall be free from defects in materials and workmanship for a period of 1 YEAR.

a) The warranty period commences from the date goods are dispatched to original user or from the date unit is commissioned provided that commissioning form or other receipt is supplied with claim and that commissioning is carried out within three months of equipment being dispatched.

b) All warranty claims must be processed through the Dealer from whom the equipment was purchased. The Dealer will co-operate with the purchaser throughout the warranty claims procedure and will arrange any necessary repairs using genuine Grease Guardian parts.

c) If the original Dealer is no longer able to fulfil their obligations please contact Grease Guardian LLC with full details of the claim and proof of purchase or commissioning so that this may be processed without delay.

d) Any warranty claim can only relate to a specific part that is proven to be at fault and for which a replacement will be supplied but cannot be extended to constitute a claim against the complete appliance.

e) Grease Guardian LLC will supply the Dealer with any warranty parts required subject to the claim being validated after return of the faulty items.

f) All replacement parts have a 60 day replacement warranty. Clean defective parts shall be returned, within the warranty period, with proof of purchase, to Grease Guardian LLC, transportation charges prepaid, for warranty evaluation. At Grease Guardian LLC option, based on the determination of the warranty evaluation, Grease Guardian LLC may repair or supply a replacement part from its factory. Any and all items which may be returned shall include the serial number of the unit from which the item was removed, and a return goods authorization number issued by Grease Guardian LLC.

g) This warranty is void if the product has been damaged by its customer prior to acceptance or as a result of unreasonable use, neglect, flooding, alteration, improper installation, improper tri-monthly (4 times yearly) service, maintenance neglect, improper electrical service, installation and/or operation without timer controls, or other causes not arising out of defects in material or workmanship. Equipment must be installed according to manufacturer's guidelines. This warranty is void if equipment is used in excess of rated flow. Grease Guardian LLC products are intended to remove only free floating oils and grease. Grease Guardian LLC products do not remove emulsified fats and oils. Grease Guardian LLC shall not be responsible for damage to equipment which results from vault flooding, sewer line back-up, pumping or lift station failure, ambient water flow or other sources of water damage. This warranty is void if the serial number on the product has been altered or defaced. Grease Guardian LLC will not replace electrical parts which have been installed in under-ground vaults. This warranty is void should use, installation and application be contrary to a written agreement between Grease Guardian LLC and the User

h) Grease Guardian LLC does not make any other representations or warranties, express or implied, including, but not limited to, any implied warranty or merchantability and any implied warranty of fitness or performance for a particular purpose.

Standard Warranty (continued)

i) The sole and exclusive remedy with respect to the above limited warranty or with respect to any other claim relating to defects or any other condition or use of the product supplied by Grease Guardian LLC, however caused, and whether such claim is based upon warranty, contract, negligence, strict liability or any other theory, is LIMITED to the repair or replacement of the part or product, excluding labour or any other cost to remove or install said part or product or, at Grease Guardian LLC option, to repayment of the purchase price. Notice of any such claim must be given in writing to Grease Guardian LLC within 15 months after the fault installation and / or use of the product.

j) In no event shall Grease Guardian LLC be liable for special, direct, indirect, incidental, personal, property or consequential damages, including but not limited to, loss of use or profits or to interruption of business activity. Grease Guardian LLC neither assumes nor authorizes any representative or any other person to assume any liability in connection with the sale of its products. Grease Guardian LLC makes no warranties, express or implied, with respect to parts, accessories, components or other goods not in its scope of supply. Alteration and/or substitution of Grease Guardian LLC parts, assemblies, accessories including electrical and/or mechanical components voids Grease Guardian LLC warranty.

10 YEAR ANTI - PERFORATION WARRANTY ON THE GREASE GUARDIAN STAINLESS STEEL TANK

Grease Guardian LLC warrants, to the original user, that the Grease Guardian main tank supplied and used in the service and in the manner for which it is intended shall be free from defects in materials and workmanship for a period of 10 YEARS. This Warranty is void should the product be damaged by the customer prior to acceptance or as a result of unreasonable use neglect, alteration, improper installation, improper service, maintenance neglect, installation or other causes not arising out of defects in material or workmanship.

The warranty is also void should any of the following conditions exist at any time prior to the defect becoming apparent on the box:

Salinity level exceeding 1000 ppm
Chloride level exceeding 250ppm
pH lower than 6 or greater than 9
Chlorine levels (from the use of bleach detergents or similar) exceeding 2ppm
Detergents poured directly into the tank or in high concentrations. The use of bleach (chlorine) and aggressive chemicals when poured in sinks and fixtures discharging into the Grease Guardian is to be limited, and the tank is to be flushed with running tap water for a minimum duration of 5 minutes after these are used in the sinks so to dilute their effect. Detergents are not to be poured directly into the tank.
Venting not provided on the outlet pipe as per the instructions given, thus inhibiting the venting out of any corrosive gases
Sludge emptying, if not happening on a regular basis will allow for the accumulation of heavy deposits at the bottom of the tank and these will create corrosion problems. The tank should be emptied, cleaned from sludge and refilled with clean water every 3 months
Water softeners and reverse osmosis system reject, if allowed to enter the tank will increase the salinity levels of the water and induce corrosion. Reject waters of water softeners and reverse osmosis units have to by-pass the unit and discharge in the discharge pipe after the outlet
Daily normal water discharge into the unit should not be inhibited, where regular discharge of water from sinks/fixtures should happen for a minimum of 5 minutes daily so as to avoid static water conditions which in themselves might induce corrosion