

# EESWOOD

## IW3N

### Installation and Operation Manual MODEL: IW3N GLASSWASHER



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 **MIDDLEBY AUSTRALIA**

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## **MANUFACTURER**

Goldstein Eswood Commercial Cooking PTY LTD

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For inquiries please call your nearest state branch or visit our website

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**1.1 Safety Notice**

The below symbols may be used in isolation or combination throughout this manual. Where used, these symbols are intended to alert personnel of potential risk, either to themselves or to the equipment and/ or convey important messages regarding the safe operation and maintenance of the appliance.



**CAUTION**

**This appliance is intended for professional use and is only to be used by trained, qualified personnel. Installation, maintenance and repairs should be performed by an authorized Goldstein Eswood service agent or qualified personnel. Installation, maintenance or repairs by an unauthorized and unqualified personnel will void the warranty.**



**WARNING**

**This appliance contains dangerous voltages and can be hazardous. Improper installation, adjustment, alteration, service or maintenance can cause property damage, injury or death. Please read the installation, operating and maintenance instructions thoroughly before installing or servicing this appliance.**



**ATTENTION**

**All plumbing and electrical work must be installed as per manufacturer’s instructions, AS3500 – Plumbing and Drainage, AS3000 – Wiring Rules, AS1668.2 – Mechanical ventilation in buildings and any other local regulations.**

## Specifications

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### 2. Introduction

Congratulations on purchasing your Eswood commercial dishwasher. Goldstein Eswood Commercial Cooking is an Australian company and has been operating since 1911, building high quality products.

The information contained in this manual will assist your installer and ensure correct location and connection. Thoroughly read the operation instructions and the maintenance sections, as understanding your products, its operation, and its cleaning and service requirements will provide you with long and satisfactory service. Neglecting regular cleaning and maintenance could shorten the life of the product and decrease its efficiency. Please ensure only authorised service technicians are called to any difficulties that may arise.

### 3. Specifications

#### 3.1 General Machine Specifications

<b>Net Weight</b>	40kg
<b>Hourly Capacity</b>	1800 glasses / hr
<b>Hot Wash Cycle Time</b>	Hot 19 sec
<b>Hot &amp; Cold Cycle Time</b>	Hot 19 sec / Cold 19 sec
<b>Standard Equipment</b>	430 x 360mm glass rack
<b>Detergent Injector</b>	0 – 8.5mL (adjustable)

#### 3.2 Rinse Power Specifications

<b>Rinse Tank Capacity</b>	12L
<b>Rinse Tank Heater</b>	3kW
<b>Rinse Pump Power</b>	375W
<b>Rinse Temperature</b>	78° - 85°C
<b>Hot Water Consumption</b>	7L
<b>Cold Water Consumption</b>	2.5L

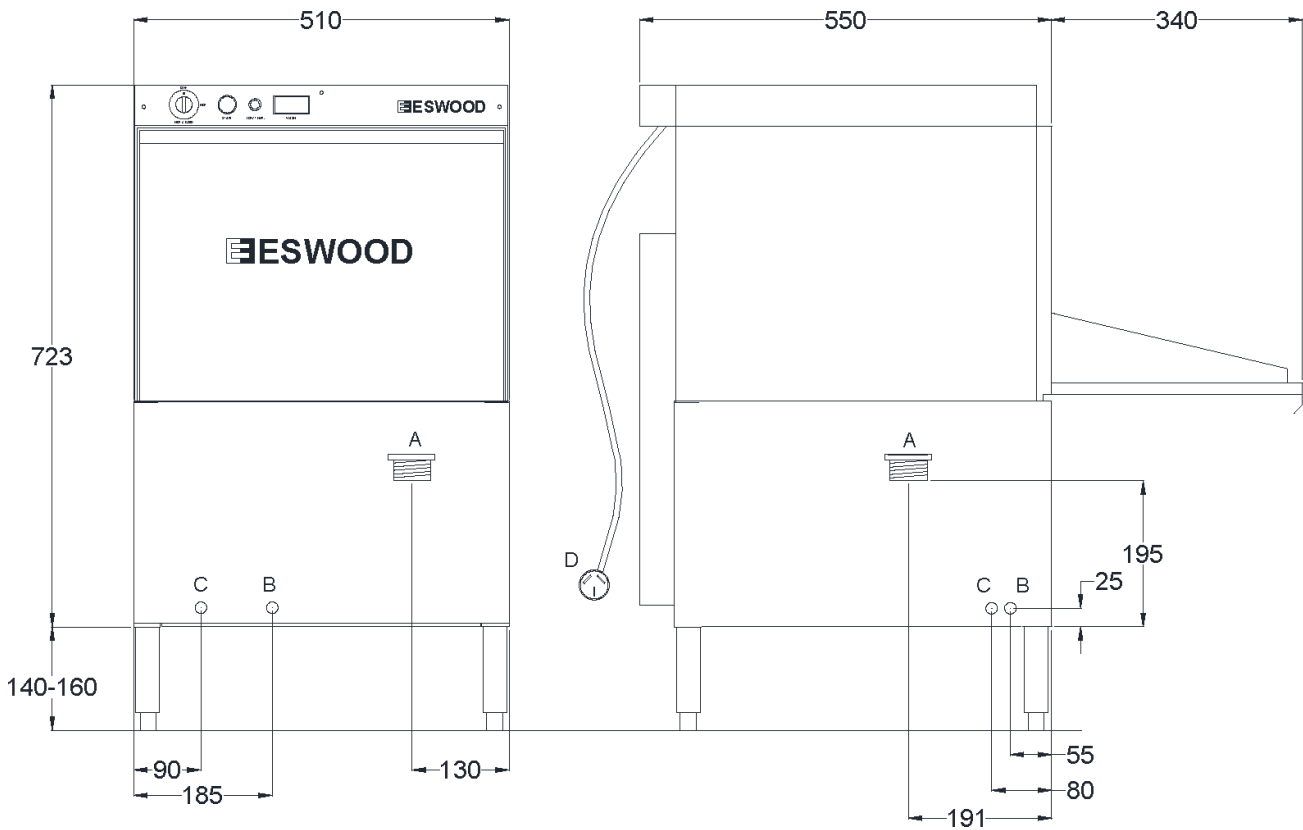
#### 3.3 Electrical and Water Specifications

<b>Electrical Input Socket</b>	240V 50Hz 15A Single phase plug
<b>Electrical Load</b>	3.4 kW
<b>Hot Water Inlet Temp</b>	65°C Minimum
<b>Inlet Pressure</b>	100 – 400 kPa
<b>Hot &amp; Cold Water Connection</b>	¾" BSPM
<b>Water Hardness</b>	<100 ppm
<b>Drain Outlet</b>	2" BSP gravity

**Note:** Inlet water quality must be potable. Do not use bore water without suitable filtration systems. Soften or filtrate inlet water in excess of 100 ppm and descale as necessary. Fit a pressure reducing device for pressure over 400 kPa.

4. Dimensions

4.1 IW3N



- A. Drain 2" BSP gravity
- B. Hot Water Supply 3/4" BSPM
- C. Cold Water Supply 3/4" BSPM
- D. Power Cord 240V 50Hz 15A Plug - 2M

**Note: Dimensions may change without notice in accordance with product design and development**

### 5. Installation

Eswood dishwashers are designed to give long and satisfactory service and incorporate the best possible materials and workmanship. Proper installation and preventative maintenance are vital for optimum performance and efficiency.

 **WARNING**

**This appliance must be installed by qualified personnel and in accordance with manufacturer's instructions, AS/NZS3500.1 and any other local codes & regulations. Installation, maintenance or repairs by unauthorized and unqualified personnel will void warranty.**

#### 5.1 Receiving Inspection & Unpacking

- Remove carton, packaging and all plastic protective material from the appliance.
- Check for damages to the appliance and report any damage to the transport company and dealer.
- Ensure all loose packaged items i.e. baskets, hoses & warranty cards are provided with the unit and report any missing items.
- Check the rating plate corresponds with the available electrical supply.

#### 5.2 Installing into Location, Water and Electrical Connections

- Remove the lower panel, position the machine and level by screwing the adjustable feet.
- Connect the 2" BSP gravity drain under the machine via a 2" trap to the drain outlet.
- Connect the hot water supply to a ¾" BSP isolating valve adjacent to the machine. Input hot water should be at a minimum of 65°C and between 100 – 400 kPa. Fit a pressure reduction valve for pressure above 400 kPa.
- Connect the cold water supply to the dual check valve and then to a ¾" BSP isolating valve adjacent to the machine. Input pressure should be between 100 – 400 kPa. Fit a pressure reduction valve for pressure above 400 kPa.
- Ensure that the rotary switch on the control panel is OFF and the toggle switch behind the lower panel is set to the INSTALL position. Connect the three-pin plug to a 15A, 240V, 50Hz, power outlet.
- Place the detergent tube and filter into a bottle of commercial grade glass washing detergent.



 **ATTENTION**

**Do not make water or plumbing connections that will prevent the machine from being removed from its installed position for servicing purposes.**

### 5.3 Commissioning and Initial Start-Up Procedure

Once the appliance has been installed always ensure its functions are operating as per the following check list. Refer to Operation in section 6 for further details on how to operate each control.

1. With the rotary switch on the control panel off, turn the water and power at the isolator switch on.
2. The machine is fitted with automatic detergent pumps. Place the filter ends of the tube into a bottle of commercial glass washing detergent. The pumps must not run without detergent and will prime itself after the initial cycles. Use only quality, commercial glass washing product or contact Goldstein Eswood to order the recommended detergent.
3. Turn the rotary switch to any cycle position, the break tank will automatically start to fill and then stop when full.
4. With the break tank full, turn the switch on front of the break tank to OPERATE POSITION to activate the elements.



**⚠ WARNING**

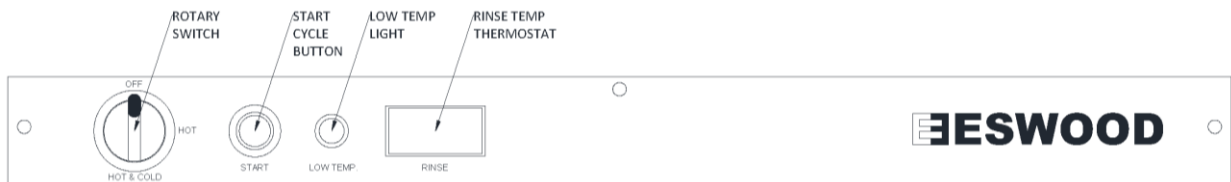
**It is vital that the heating elements are safely covered with water. Damage to the elements is not covered under warranty if the break tank has been improperly filled.**

5. The Low Temp light will illuminate, indicating the water is below 78°C and will begin to heat to the set temperature 85°C. When the Low Temp lights turns off the machine is ready to begin a cycle.
6. Close the door and the START button will illuminate. Select a cycle on the rotary switch and then press the START button to activate a cycle. The START button will flash indicating a cycle is running. When the flashing stops, the cycle is complete. If the START button is not illuminated, the door is improperly closed and a cycle cannot be started.
7. At the end of the cycle, turn the rotary switch to the OFF position, refit the lower front panel and open the door to air out the machine.

## Operation

### 6. Operation

#### 6.1 Washing Operation



#### IW3N Control Panel

1. Check the level of detergent and fill when necessary.
2. Turn the power and water on at the isolator switch.
3. Close the door, select a cycle on the rotary switch and the temperature will be displayed. Allow the machine approx. 15mins initially for the machine to get up to temperature.
4. Open the door, slide in a rack, close the door and press the START button. The START button will flash indicating a cycle is running. When the flashing stops, the cycle is complete and the rack can be removed for the next load.
5. Check that the drain grate is free from any debris that can block the opening.

Key	Indication
Start light flashing:	a cycle is running.
Start light on:	a cycle is ready to be selected.
Start light off:	no power or door is open.
Low temp light on:	rinse temperature is low and heating to above 78°C.
Low temp light off:	rinse temperature sufficient.

#### **ATTENTION**

**This appliance is intended for professional use and is only to be used by trained, qualified personnel. Installation and repairs should be performed by an authorized Goldstein service agent or qualified personnel. Repairs by unqualified personnel will void warranty.**

### 7. Cleaning and Maintenance

#### 7.1 Shutdown & Maintenance

1. Turn the rotary switch to the OFF position.
2. Remove any debris from the wash tank and drain grate.
3. Clean the exterior of the machine with a damp sponge. Do not pass water over the electrical controls and avoid using abrasives or strong detergents.
4. Check for leaks and ensure that the arms rotate freely.
5. Leave the door open to allow the machine to air.

 **ATTENTION**

**Never use wash hoses or water jets on this appliance. The appliance is not waterproof and caution is advised when hosing down floors near this appliance. Appliance electrical connections are commonly connected near the bottom of the appliance and water in this area can create hazardous conditions.**

#### 7.3 Periodic Maintenance

Incorporating a regular maintenance schedule will optimise and keep services running efficiently. Goldstein can provide an MIS (Machine Inspection Service) that delivers regular inspection and maintenance to reduce problems before they occur. For more information or to setup an MIS, please contact the nearest Goldstein branch.

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## Trouble-Shooting

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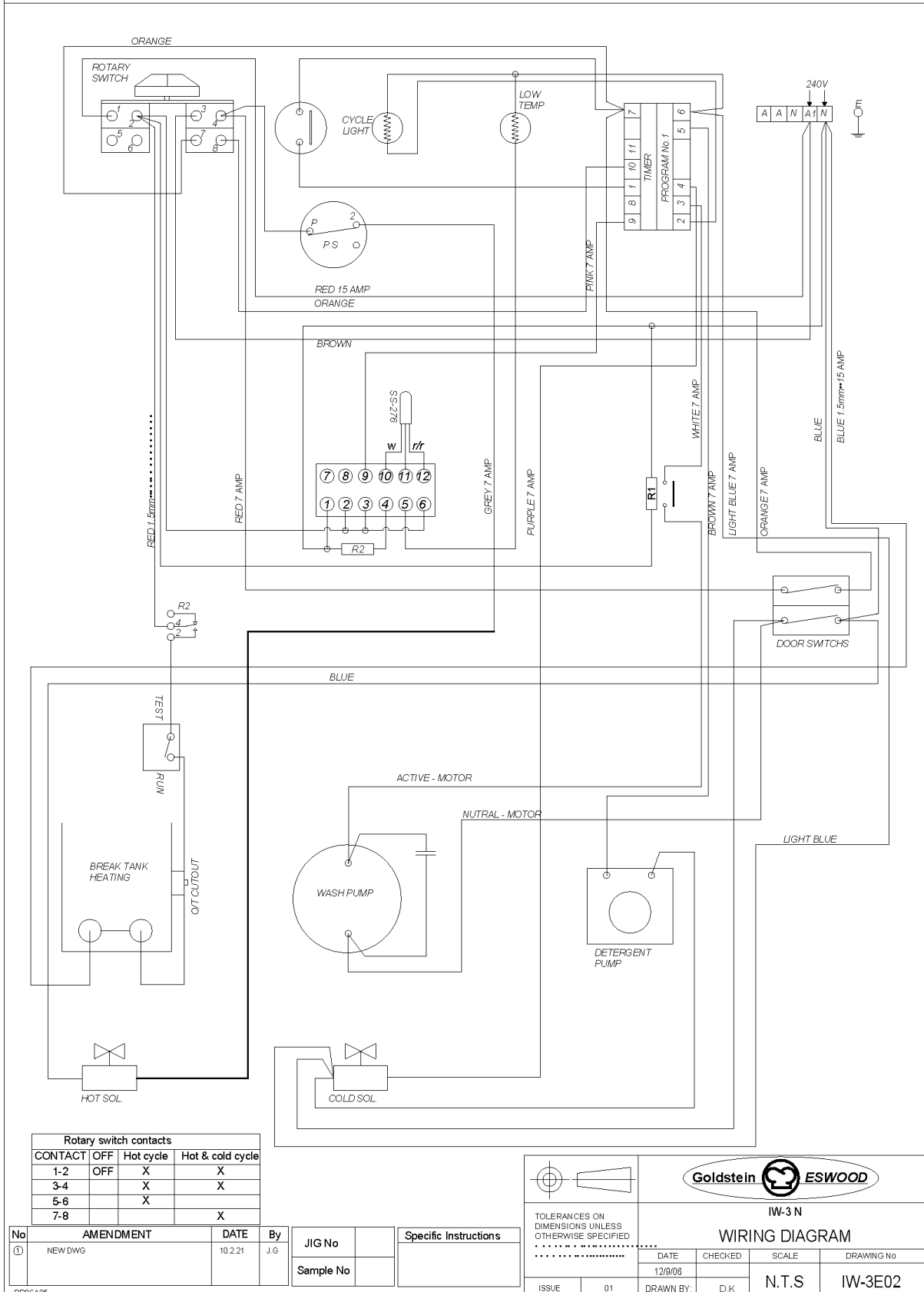
### 8. Trouble-Shooting

Please refer to the following guide as reference to diagnose and repair some of the more common problems encountered. Should a problem not listed arise or in doubt, please contact Goldstein Eswood or an authorised service agent.

<b>Fault</b>	<b>Cause</b>	<b>Solution</b>
-Thermostats and lights not coming on.	-No Power.	-Check the isolating switch is turned on and fuses are okay.
-Machine will not start.	-Low rinse temp. -Door open. -Door switch not triggered or faulty.	-Check the rinse temperature has reached at least 78°C. -Check the door is closed properly. -Check the door switch is being triggered and replace if faulty.
Machine not filling correctly and/ or filling continuously.	-Restricted or no water flow. -Blocked or damaged solenoid valve.	-Check the water isolating valve is fully open and check for obstructions in the water supply line. -Check for obstruction in the water supply solenoid valve and clean if necessary. Check diaphragm and replace if punctured.
Poor wash.	-Low or no detergent.  -Blocked wash arms. -Incorrect placement. -Low wash temp, faulty elements or thermostat. -Faulty wash pump.	-Check the detergent feeder to machine is operating correctly and no air is in the tube. -Check for foreign matter in wash arm jets and clean. -Check the items to be washed are correctly placed in racks. -Check the rinse temperature. If incorrect check thermostat settings and heating element operation. -Check the wash pump is functioning.
Poor rinse.	-Low water inlet pressure. -Blocked or restricted wash arms. -Blocked or damaged solenoid valve.	-Check water pressure to machine is not less than 100kPa and ensure the isolating valve is fully open. -Check rinse jets for foreign matter and clean.  -Check water supply solenoid valve is functioning correctly.
Insufficient rinse temperature	-Low water inlet temp. -Incorrect or faulty thermostat. -Elements damaged.	-Check the temperature of inlet water supply is at least 65°C. -Check rinse tank thermostat is set correctly and functioning.  -Check rinse tank elements are operating correctly.
SERR on thermostats	-Sensor probe error	-Check the thermostats are set for the correct probe type. -Check the temperature sensor probes for damage and replace if necessary.

9. Wiring Diagram

9.1 IW3N





## 10.2 Parts List

PART No.	DESCRIPTION	PART No.	DESCRIPTION
200715	INLET HOSE	HC-110	HOSE CLAMP SS 22-38
A-1917-1	BUSH – RINSE ARM 32/50	HC-116	HOSE CLAMP SS 35-48
A-1917-4	CARBON BEARING BUSH	HC-121	HOSE CLAMP SS 40-57
A-2452	RINSE ARM DISC B-42	IW-3A03	RINSE TANK ASSY
A-2454-1	RINSE ARM 2 JETS	IW-3A06	WASH "T" JUCTION
A-2454-2	RINSE ARM 3 JETS	IW-3A11	WASHARM ASSY
A-2560-1	DOOR HINGE ROD	IW-3A12	BRIDGE BRACKET ASSY
A-2887	DOOR CATCH	IW-3M01	LOWER RINSE BEARING PIN
A-1469	90° HOSE	IW-3M01-1	UPPER RINSE BEARING PIN
B-1108	THRUST SCREW	IW-3P08	OVERFLOW COVER
B-2649	RINSE ARM ASSEMBLY–UPPER	IW-3P14	FILL TUBE BRACKET
B-42A05	DOOR ASSEMBLY	MCL-012	WARNING LABEL - ELECT
B-42A07	RACK GUIDE ASSY	PF-347	FILTER VALVE
B-42A09-1	TOP CONTROL ASSEMBLY	PF-411	1/2" ELBOW
B-42A10	PLUNGER ASSY - MICRO	PF-426	TEE 1/2" B.S.P. BRASS
B-42G01	RUBBER GASKET DOOR SWITCH	PF-444	TAIL PIECE 1/2"BSPX1/2" B
B-42P19-1	CONTROL PANEL	PF-509P	CAP 3/8 X 26TPI THD - BRA
B-42P25	FRONT PANEL	PF-514	HEX NIPPLE 1/2"X1/2" BSP
B-42T02	BEARING TUBE PLUNGER	PF-601P	HEX BACK NUT 1/8"BSP BRAS
C-0450U	WASH PUMP ASSY	PF-605P	3/4" BACK NUT CHROME
EM-136	CAPACITOR 12.5 UF	PF-606P	1" BACK NUT - CHROME
EP-125	SOLENOID VALVE	PF-617	CHECK VALVE 1/2"BSP R.M.C
EP-149	STRIP CONNECTOR 12 POLE 3	PF-621	WASTE OUTLET-PLASTIC COMP
EP-341	15A PLUG AND LEAD GREY 3M	PF-701	RINSE JET ES-25
EP-156	TRANI LAMP RED	RT-135	TUBE-5MM ID CLEAR X 1 MET
EP-211	ELEMENT 3.0 KW	RT-144	HOSE RUBBER 12MM X 1M
EP-255	DETERGENT PUMP	SE-134	O'RING
EPLR0008	12MM ROUND GREEN LED LIGHT	SS-151	OT SENSOR
ESW00040	22MM LED MOMENTARY SWITCH	SS-154	PRESSURE SWITCH
ECT00005	30A 1.5HP SP HD RELAY	SS-236	240V RELAY AC COIL
ESW00017	TOGGLE SWITCH 20A SPST	SS-250	MICRO SIWTCH 16A 43MM LEVER
GSK-010	3/4 BSP GASKET	SS-267-1	ROTARY SWITCH + KNOB NEW
GSK-014	GASKET	SS-270	ELECTRONIC TIMER
GSK-015	GASKET	SS-258	BASE TIMER
GSK-016	GASKET	SS-276	TEMP CONTROLLER 3M PT100 3 WIRE
HC-104	HOSE CLAMP 16MM	SS-277	TEMP CONTROLLER WHITE PV DISPLAY
HC-108	HOSE CLAMP SS		

### 11. Warranty

#### **Goldstein Eswood Commercial Cooking Pty Ltd. Warranty Terms**

GOLDSTEIN ESWOOD COMMERCIAL COOKING PTY LTD. (hereafter "GECC") warrants that all products supplied by GECC (hereafter "product/s") are free of defects in material and workmanship for a period of 12 months from the date of purchase. Subject to the exclusions and conditions below, GECC undertakes to repair, replace, supply or refund (at GECC's option) all products and components supplied by GECC which GECC in its sole and absolute discretion deems to be defective in materials or workmanship under proper, normal and recommended conditions of use and maintenance.

This undertaking covers the provision of labour for 12 months and parts for 12 months from the date of purchase of the product.

Defective replacement spare parts will be repaired or re-supplied for a period of 3 months from delivery of the product.

Nothing in this warranty should be interpreted to extend any warranty received by, or benefiting, GECC to the customer. The terms of this warranty, and the obligations of GECC created by this warranty are as expressly stated in this warranty only. Any verbal representation made by GECC or third parties on behalf of GECC are not binding.

#### **Warranty Claim Procedure**

To obtain the benefit of this warranty, the customer must:

1. Give notice to GECC immediately upon becoming aware of the alleged defect and in any event before the expiration of the said 12 month period;
2. Provide GECC with proof of date of purchase; and
3. Stop using the product immediately, and switch it off until further instructions are provided by GECC.

Provided the warranty claim meets the requirements outlined in this document, GECC will provide service in support of the warranty claim. Part of this service will be the collection of information to diagnose the fault prior to arriving on site. Such information is to be provided to GECC by the customer in a prompt manner.

GECC will charge the customer for repairs (including labour, parts and travel) carried out by GECC or the GECC nominated service provider that are not covered by warranty and repairs that are not required to be carried out in terms of the Australian Consumer Law (if applicable). GECC will also charge for any items as listed under "Additional Charges" below. GECC will endeavour to quote for repairs prior to making the repair, including all applicable additional charges.

#### **Additional Charges**

GECC will charge the customer for the following Additional Charges:

- Service outside the normal working hours or on public holidays;
- Service outside of GECC's service area. This is 250km round trip from the closest GECC branch or the GECC nominated service provider;
- Additional costs of the warranty repair including but not limited to accommodation, cost of transport, site inductions and freight;
- Poor access and waiting time;
- All other costs including, without limitation, cartage, carriage and installation.

#### **Warranty Exclusions**

- The liability of GECC under this warranty is limited to the repair or replacement of defective products or components.
- This warranty does not cover normal or scheduled maintenance.
- This warranty does not cover consumable items including but not limited to globes, seals, drive belts, fuses, and water filters.
- This warranty does not cover the clearing of drains.
- This warranty does not cover the resetting of circuit breakers or overload devices.
- This warranty does not cover damage or malfunction to products resulting from poor maintenance or negligence of a party other than GECC.
- This warranty does not cover damage or malfunction to products caused intentionally or unintentionally by third parties, neglect or force majors.

*This warranty does not apply if a defect arises from any of the following:*

- *Improper installation or commissioning of the products.*
- *Installation of the products not performed by a licenced installer. Proof of licence number may be required by GECC at time of placing the warranty claim.*
- *Operation, use or maintenance of the product otherwise than in accordance with the instructions provided by GECC or any of the associated relevant Middleby Companies.*
- *Use of chemicals other than those recommended by GECC or any of the associated relevant Middleby Companies.*
- *Accidental damage, misuse, negligence or any other failure to take reasonable care.*
- *Use of the product for a purpose outside those specified by GECC or any of the associated relevant Middleby Companies.*
- *Use of the product for a purpose or in environmental conditions outside those specified by GECC or any of the associated relevant Middleby Companies.*
- *Where products have been disassembled or had unauthorised changes made by persons other than GECC or a GECC nominated service representative.*
- *Damage caused through blocked drains.*
- *Damage caused by blockages to pilots, injectors and burners.*
- *Damage arising from corrosion and/or lime scale.*
- *Damaged caused by, or the replacement of, parts or items not supplied by GECC or any of the associated relevant Middleby Companies.*
- *Damage caused by rodents or insects.*
- *Damage caused by lightning, flooding or an act of God.*

### **Warranty Conditions**

*This warranty is subject to the following conditions:*

- *Labour which is reasonable and necessary pursuant to the terms of this warranty is supplied free of charge during normal working hours, namely between 8:30am and 4:30pm Monday to Friday, excluding public holidays. Should warranty work be requested outside of normal working hours, charges will apply (see Additional Charges).*
- *While the products are in the custody of GECC for investigation or repair, they shall be at the risk of the customer and no liability shall attach to GECC, its servants or agents for any damage occasioned to, or loaned, the products howsoever arising.*
- *The warranty period is not renewed or extended as a result of a warranty repair or replacement unless by agreement with GECC.*
- *This warranty is not transferable and is only offered to the original customer.*
- *The warranty registration card was submitted on commissioning.*
- *This warranty only applies to products purchased from GECC or an authorised GECC distributor.*
- *Any warranty claim must meet the requirements set out in "Warranty Procedure".*
- *Warranty work must be performed only by GECC or by a GECC authorised service provider.*
- *When a product or component is replaced or refunded, any replaced item becomes the property of GECC.*
- *GECC may amend the terms of this warranty from time to time, at its absolute discretion.*