

ODOUR & GREASE REMOVAL



*Harnessing Nature's Cleaner Power for
Healthier Indoor Environments*



USER MANUAL



ODOUR & GREASE REMOVAL SYSTEM

ENGLISH | ESPAÑOL | DEUTSCH | FRANÇAISE

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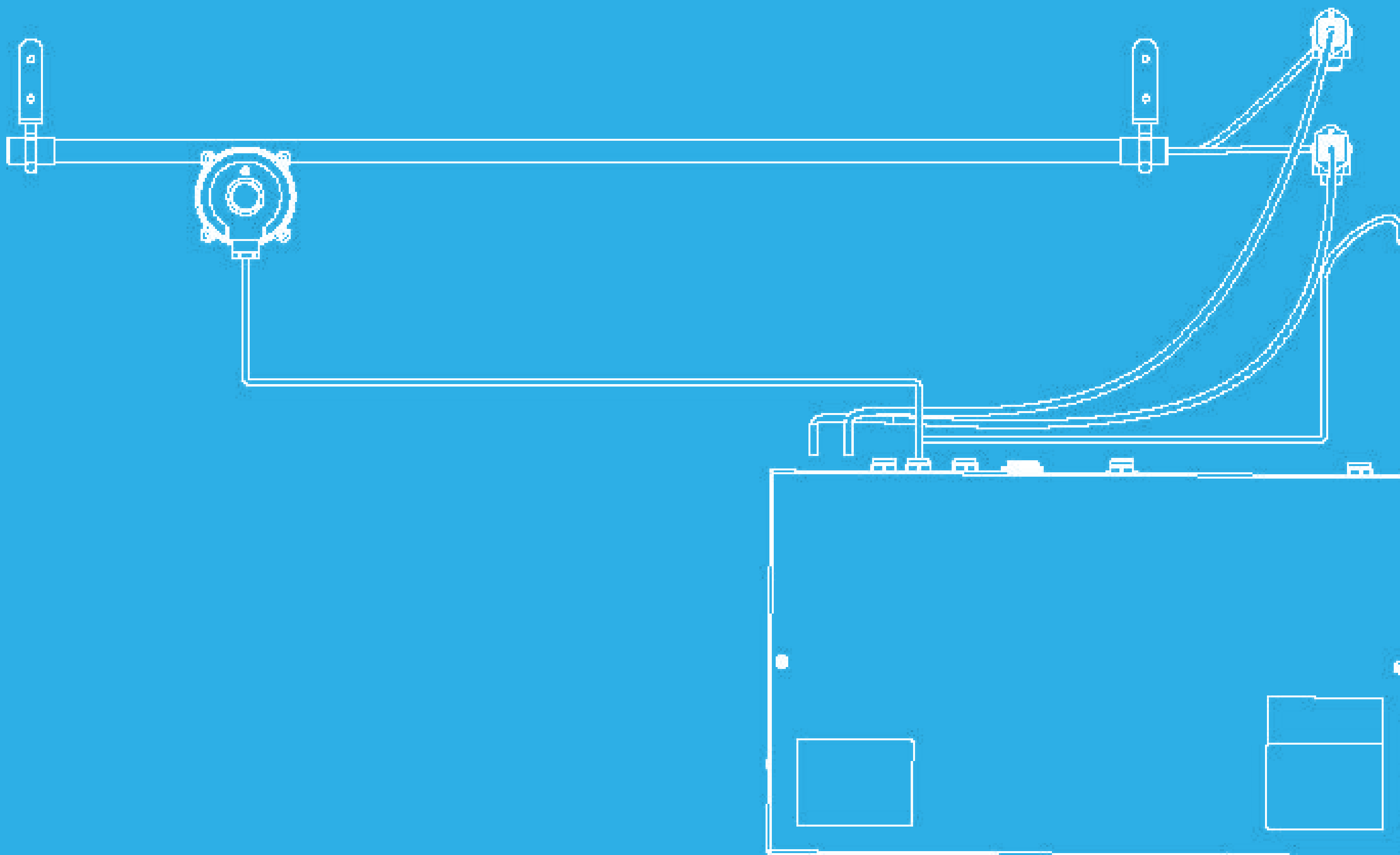
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01. INTRODUCTION

This user manual is produced to facilitate the safe and trouble-free operation of the Biozone Scientific Odour & Grease Removal. The product is designed and manufactured in strict adherence to technical standards, incorporating cutting-edge technologies and quality components. Moreover, it is produced in complete compliance with the most rigorous quality standards.

To enhance the product's lifespan and ensure a safe and effective operation, you must follow the instructions outlined in this user manual and perform regular maintenance tasks. The technical data and specifications provided in this user manual are current, but it's important to note that the manufacturer retains the right to implement any necessary changes.



CAUTION: DO NOT USE THE DEVICE UNLESS YOU HAVE THOROUGHLY READ AND UNDERSTOOD THIS USER MANUAL.



PLEASE NOTE: The drawings in this manual are for illustration purposes only and may not perfectly match the actual product. The original operation manual is in English, and other languages are translated versions from the English original.

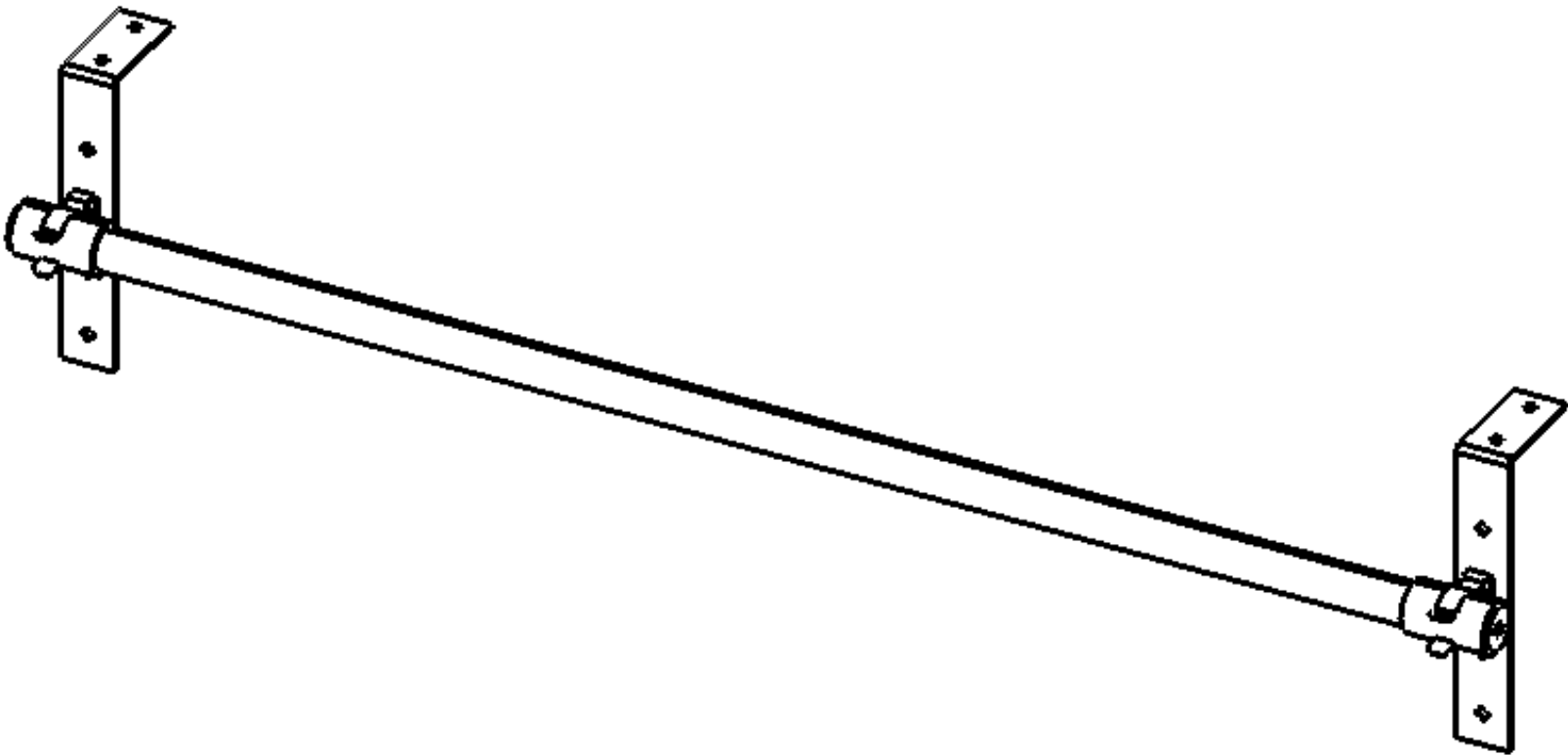
02. INCLUDED PARTS

NOT INCLUDED BUT REQUIRED

- 220-240 VAC, 50/60Hz electrical supply to each Control or Ballast box
- 3-conductor mains electrical cabling with conduit, conduit fittings, and junction boxes
- Grease filters capable of fully containing UV light
- Grease filter limit switches (magnetic or mechanical)

LAMPS & BRACKETS

Part Number	Lamps & Brackets	Quantity
10-U28100-C	UV Lamp, 700mm	
10-U40100-C	UV Lamp, 1000mm	
10-U60100-C	UV Lamp, 1554mm	
OGR-KT-02	Lamp Bracket Pack	1/hood
OGR-KT-03	Lamp Clip Pack	1/lamp

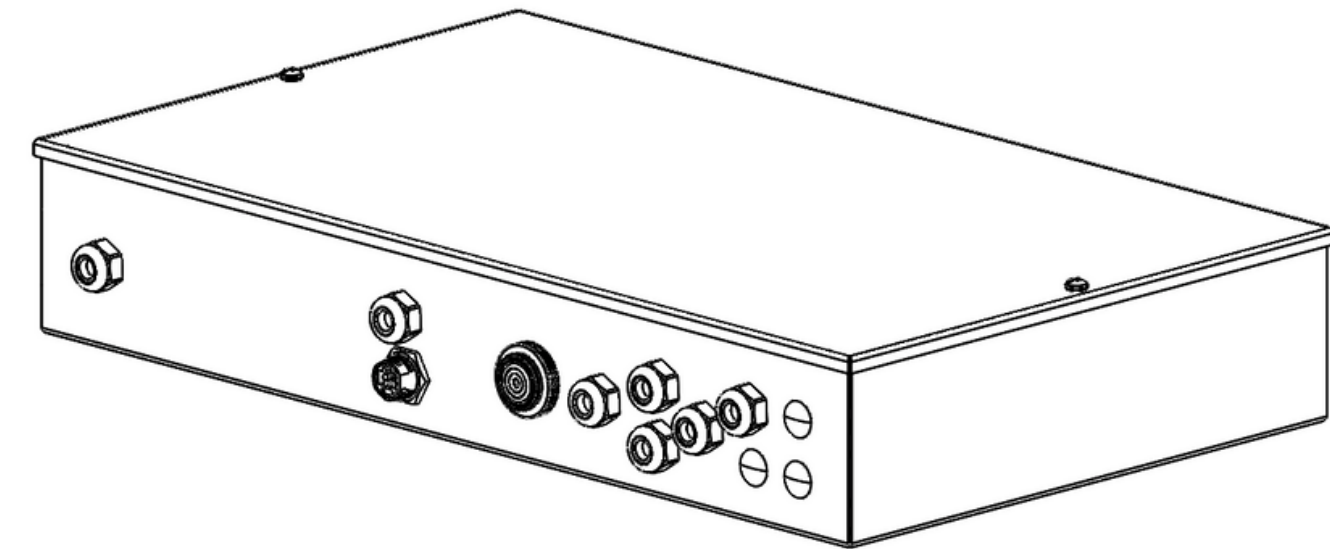


02. INCLUDED PARTS

CONTROL BOX KIT

*minimum 1 per kitchen. Powers 1-4 lamps

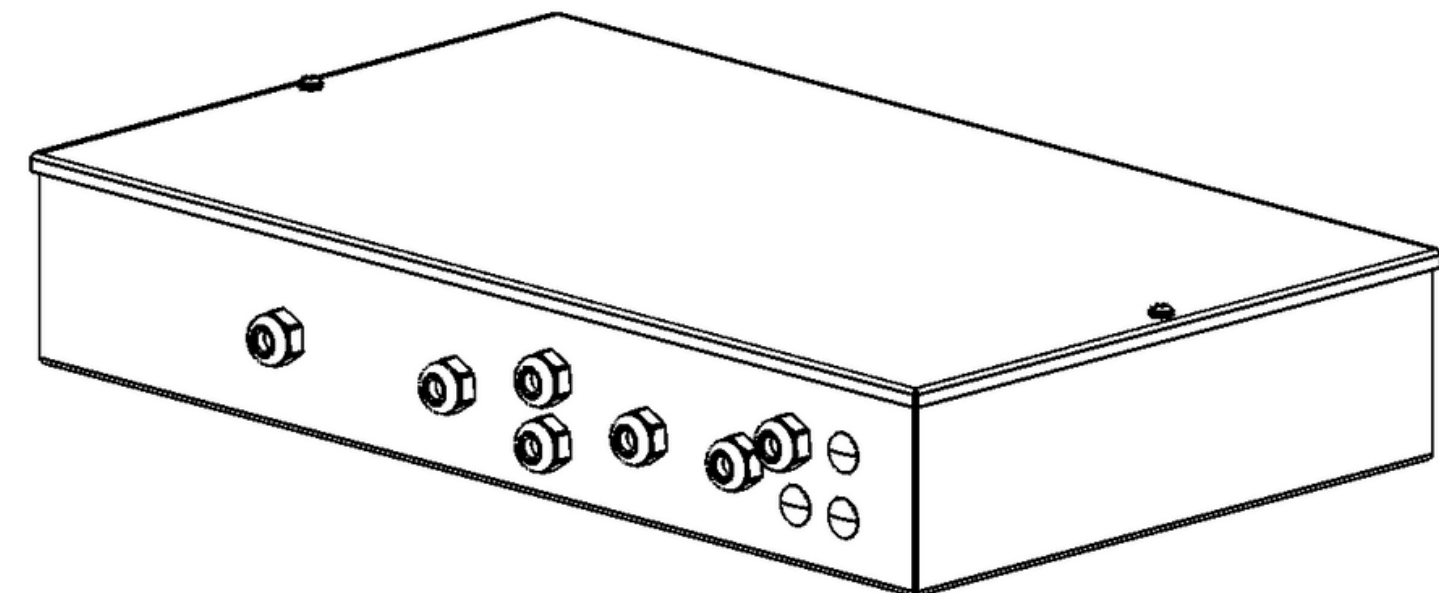
Part Number	Control Box Kit	Quantity
OGR EX-#	Control Box	1
17-1010	Display	1
OGR-KT-01	Pressure Switch Pack	1
15-2103	Grease Filter Switch Cable	1
15-2005	Display Power Cable	1
15-2100	Display Data Cable	1
23-1002	LED Indicator with Cable	1
15-1010-C	Lamp Cable with Connector	1/lamp
12-0001-UV	UV Warning Label	1



BALLAST BOX KIT

*extends UV capabilities to multiple kitchen hoods. Powers 1-4 lamps

Part Number	Ballast Box Kit	Quantity
OGR EX-B#	Ballast Box	1
OGR-KT-01	Pressure Switch Pack	1
15-2103	Grease Filter Switch Cable	1
15-2110	Control Cable	1
23-1002	LED Indicator with Cable	1
15-1010-C	Lamp Cable with Connector	1/lamp
12-0001-UV	UV Warning Label	1



03. DEVICE DESCRIPTION

The Biozone Scientific Odour & Grease Removal offers an automated, chemical-free solution for kitchen cooker hood cleaning. The solution breaks down oil and grease particles, reducing odours and fire risks. Odour & Grease Removal saves time and money on manual cleaning, ensures a pleasant environment for staff and customers, and minimizes unit downtime.

Odour & Grease Removal is the result of the extensive research and sustained product developments. Biozone Scientific has more than a decade of experience in designing and manufacturing its products.

Odour & Grease Removal is highly effective and safe to use and fully complies with the criteria of the world's most respected certification bodies. Certificates issued to this effect are listed in section 09, Warranty and Certifications section of this manual.

Every Odour & Grease Removal unit has undergone a strict quality/control regime. However, if the unit malfunctions, follow the instructions in the troubleshooting section of this manual. If the problem persists, please contact your local distributor.

Biozone Scientific products are designed to be user-friendly with a high degree of functionality, ease of operation and simple installation. User feedback is important for the continuous development of our products.

We value your opinion and greatly appreciate your feedback, which you can send to: info@bsg-uv.com



For more information, visit our home page at: **www.biozonescientific.com** and discover:

- Biozone Scientific solutions for other applications such as garbage rooms, ice-machines etc.
- Contact information for importers and distributors

04. BIOZONE TECHNOLOGY - PHOTOPLASMA™

Odour & Grease Removal comprises powerful UV Photoplasma™ lamps strategically positioned within Commercial Kitchen hoods. These lamps automatically clean both the hood and ventilation ducts.

When properly used, Odour & Grease Removal eliminates the accumulation of grease, oil, and unwanted food odours. It reduces the need for expensive manual cleaning without relying on toxic chemicals, wastewater, or harmful by-products.

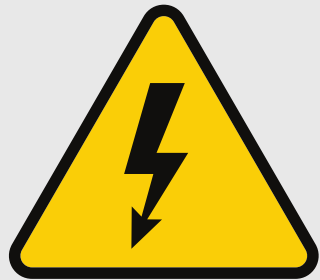
Biozone Scientific's advanced Photoplasma™ technology is designed to sustainably enhance indoor environments. It goes beyond conventional cleaning methods by harnessing combination of negative ions, hydroxyl radicals, singlet oxygen, ultraviolet light and ozone.

The elements of Photoplasma™ quickly and actively break down the structure of contaminants by a chain of reactions. Eventually the contaminants are decomposed and converted to harmless molecules such as carbon dioxide and water vapour.

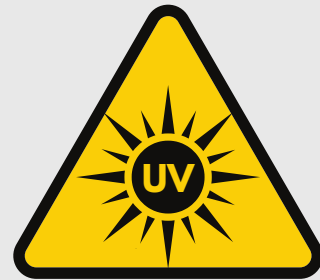
In essence, Biozone Scientific's Photoplasma™ advanced technology brings the holistic benefits of the outdoors, where nature's cleansing mechanisms thrive, directly into our indoor spaces. It ensures a sustainably enhanced, healthier, and more refreshing living environment.



05. INSTALLATION



WARNING
PROTECT EYES FROM UV LIGHT
TURN OFF OR DISCONNECT
BEFORE SERVICING



IMPORTANT!

- QUALIFIED TECHNICIANS SHOULD INSTALL THIS PRODUCT
- INSTALL IN ACCORDANCE WITH RELEVANT BUILDING CODES
- READ INSTRUCTIONS CAREFULLY INCLUDING SAFETY WARNINGS

NO UV LIGHT SHOULD LEAK OUT OF THE SYSTEM AFTER INSTALLATION



Biozone Odour & Grease Removal systems must be installed by certified technicians only. Installation of this product by anyone other than licensed HVAC or electrical contractors voids warranty, and Biozone assumes zero liability for any damages resulting from such installations.

05. INSTALLATION

LAMP BRACKETS

Bracket Location & Spacing

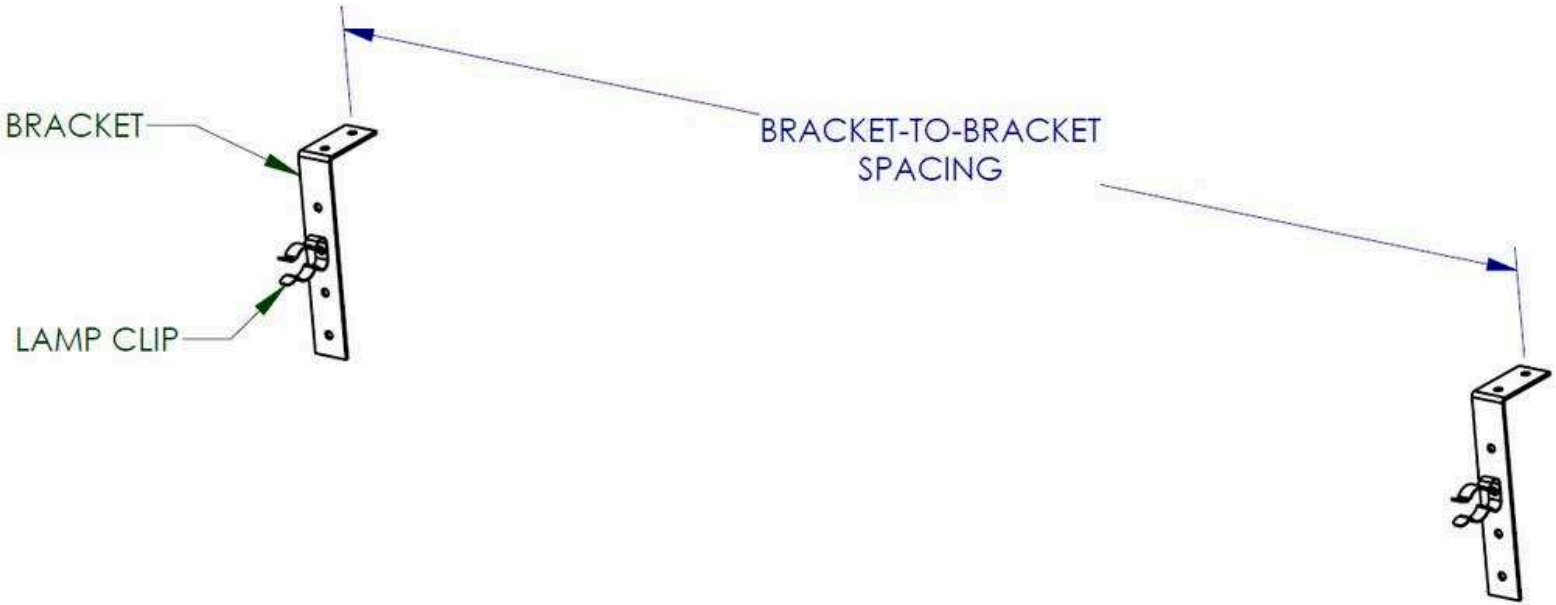
The UV Photoplasma™ lamps will be positioned behind the grease filters directly under the exhaust duct. Use this table to determine the correct bracket installation spacing for your Odour & Grease Removal system.

Attach the lamp clips at the desired position on the long side of the L-bracket using the M5 fasteners.

Refer to the table above for separation distance, then measure and mark the appropriate bracket installation locations. The brackets will optimally be centered across the exhaust duct with adjustments as needed for fire suppression or other pre-existing equipment.

Attach the short side of the L-bracket to the hood top. The included M5 fasteners may be used, or the installer may use welding, rivets, sheet metal screws, or other secure method.

LAMP PN	LAMP LENGHT	BRACKET-TO-BRACKET SCREW HOLE SPACING
10-U28100	700 mm	660 mm
10-U40100	1000 mm	960 mm
10-U60100	1555 mm	1515 mm



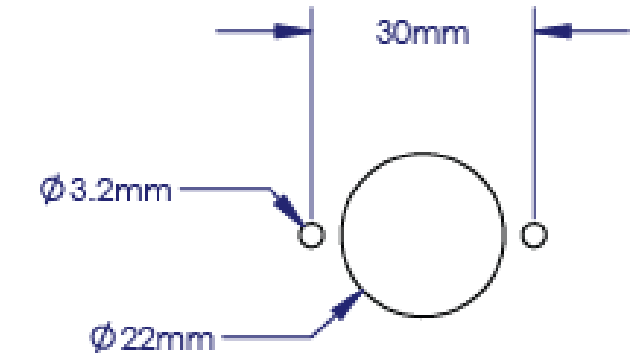
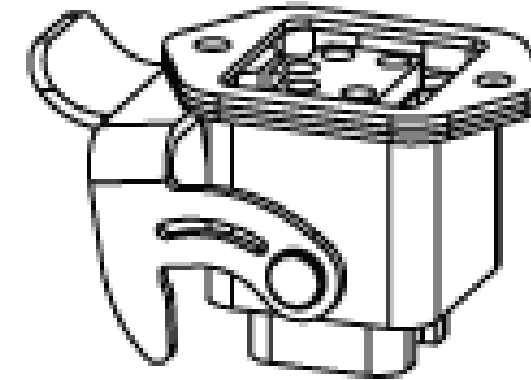
05. INSTALLATION

LATCH CONNECTORS

Identify a good location for the lamp connector base to be installed. This location should be behind the grease filters and within 500mm of the lamp bracket. It is NOT recommended to place these connectors between the two lamp brackets.

Cut or drill a 22mm (0.875") hole and 2x M3 fastener holes as shown below.

Feed the connector cabling through the hole so the base is the only component remaining on the hood interior. Adjust the sealing gasket onto the base. Use M3 screws or rivets to fix the connector base in position.



Latching connector installed on hood interior behind grease filters



05. INSTALLATION

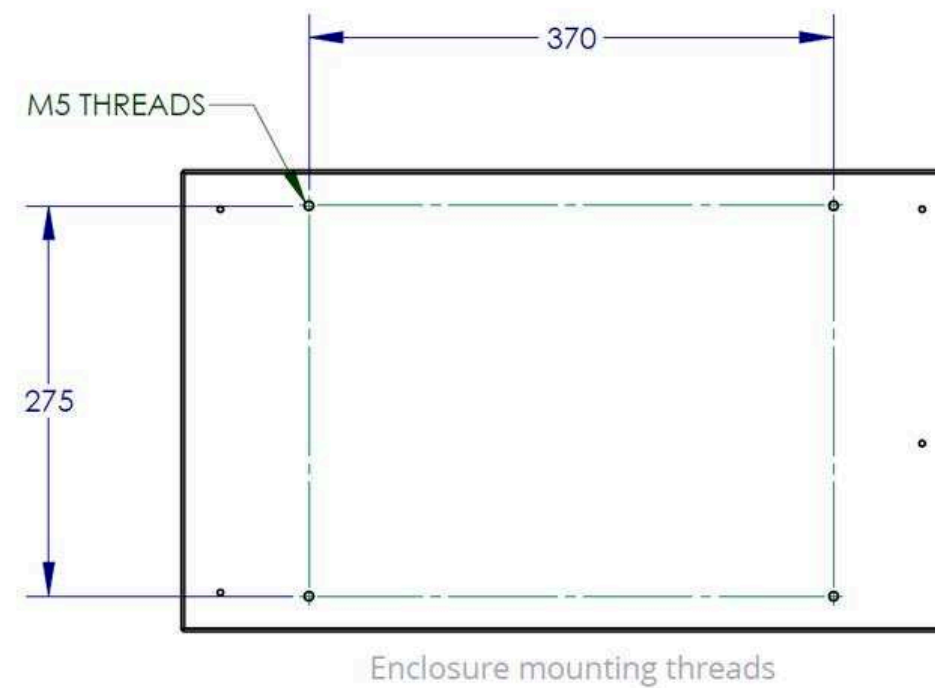
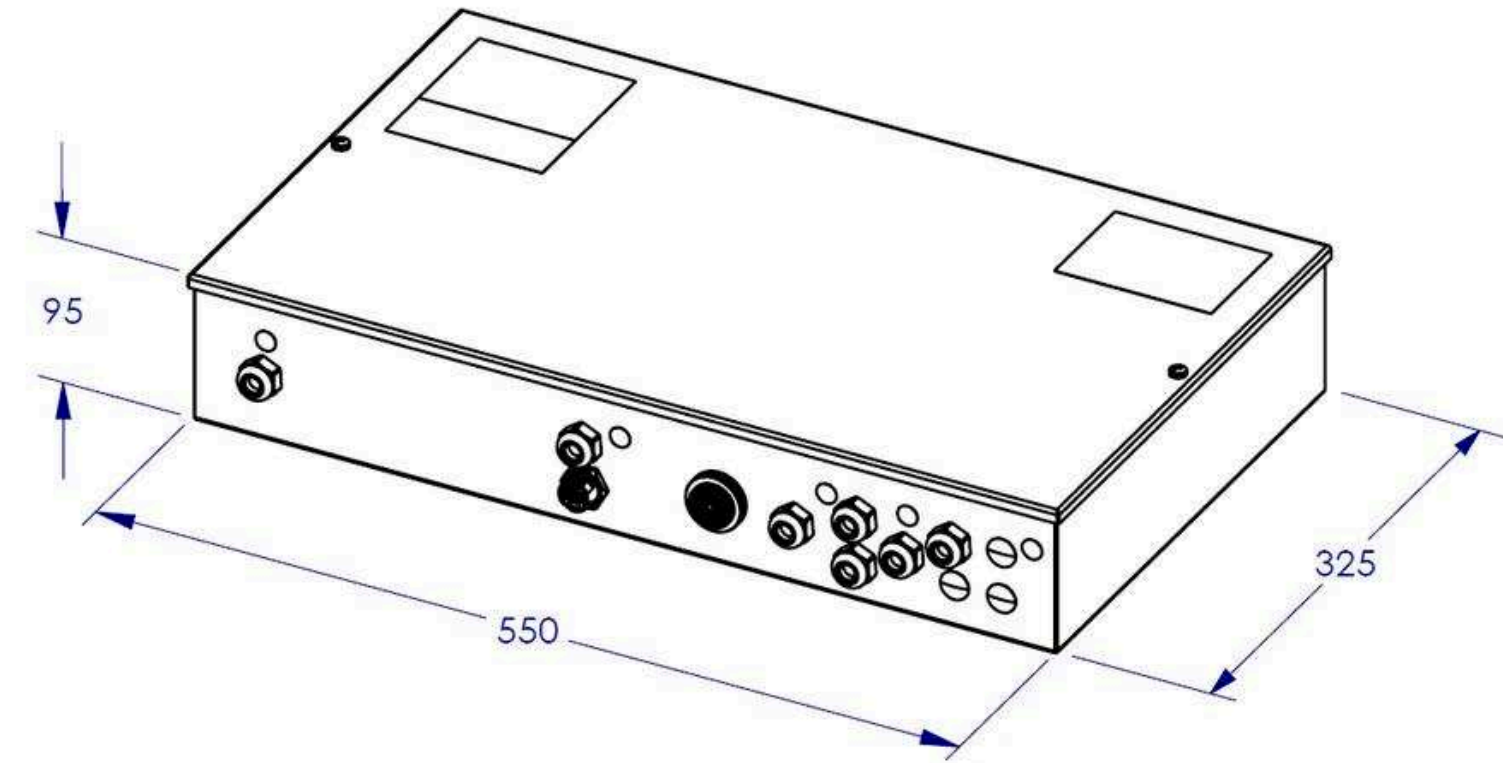
ENCLOSURES

Location

The control and ballast enclosures are recommended to be installed in hood utility cabinets or above the hood. They have IP 30 ingress rating and should not be placed in the primary kitchen area where grease build up or washdown occurs. If you require enclosures with washdown capability, please consult with your BioZone representative prior to purchase.

Dimensions

The enclosures are 550 x 325 x 95mm and have a 370 x 275mm threaded mounting hole pattern on the under side. M5 fasteners up to 10mm in length can be installed in these mounting holes.



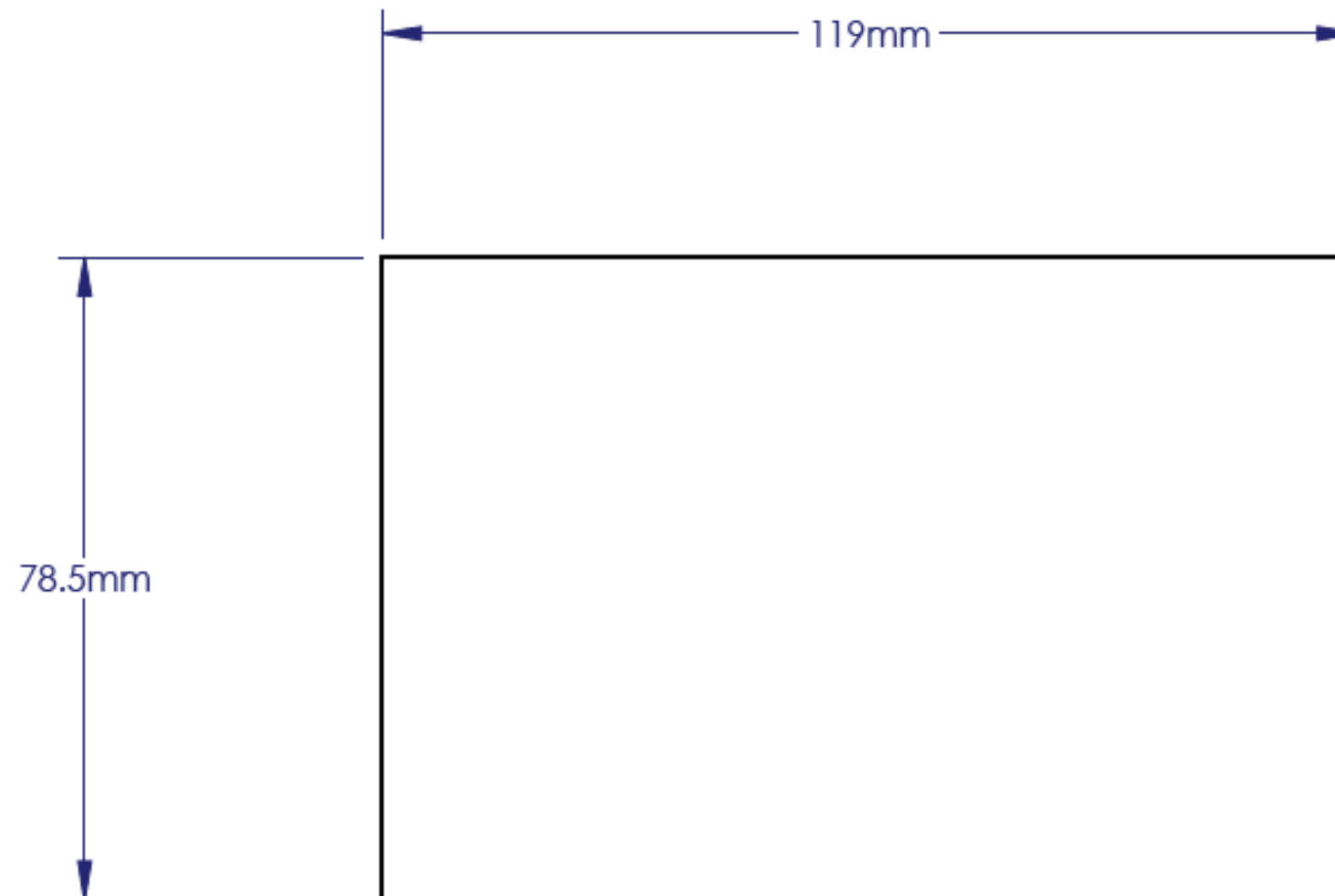
05. INSTALLATION

DISPLAY

Determine suitable display installation location near the control box. Display should be at a convenient location where kitchen operators can see the screen and press the buttons as needed. Likely locations are in the hood utility cabinet or other clean hood surface not exposed to oily exhaust air.

Cut a 119 x 78.5mm (width x height) opening.

Use the supplied gasket, bracket, and screws to install the display module in the cutout.



05. INSTALLATION

LED INDICATOR

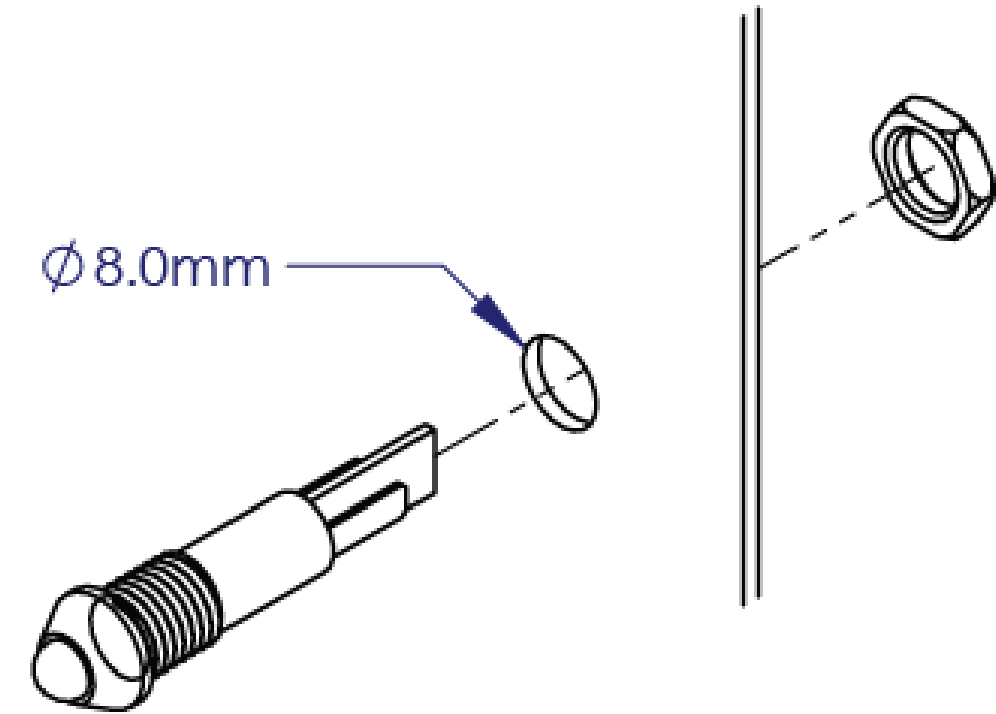
Determine suitable LED indicator location.

If this is the master hood with the control box and display, then the LED should be installed near the display.

- If this is a hood with a ballast box, then LED should be installed in a location on the hood clearly visible to kitchen operators.

Cut or drill an 8mm diameter hole.

Insert the LED into the hole, then use the supplied nut to securely tighten the LED onto the hood panel.



05. INSTALLATION

UV WARNING LABEL

Caution: UV light can cause serious eye burns and temporary blindness. Ensure all grease filters are in place before activating the system.

1. Affix the UV Warning Label in a conspicuous location such as the door or access panel used to service the unit.
2. Record the installation information on the UV Warning Label. It is recommended to record service details on the label as those functions are performed.



WARNING
PROTECT EYES FROM UV LIGHT
TURN OFF UNIT OR DISCONNECT
BEFORE SERVICING



WARNING
PROTECT EYES FROM UV LIGHT
TURN OFF UNIT OR DISCONNECT
BEFORE SERVICING



IMPORTANT!

- Qualified technicians should install this product
- Install in accordance with relevant building codes
- Read instructions carefully including safety warnings

Installation Information	
Installed by	
Installation Date	
Equipment ID	
Lamp PN	
Lamp Qty	

Service Information	
Lamp Replaced by	Replacement Date

www.biozonescientific.com
t 1.407.876.2000



05. INSTALLATION

GREASE FILTER INTERLOCK SWITCH

The filter interlock switch(es) prevent accidental exposure to UV light. The UV lights turn off when a grease filter is removed and an alarm will sound until the Odour & Grease Removal system is turned off or the filter is replaced.

Biozone recommends a door switch on every baffle filter.

Set the switches in the normally open (NO) configuration.

Install the switches in the hood framing so they will be activated/depressed/closed when the grease filters are installed. This safety circuit should be closed only if all grease filters are in place and open when a grease filter is moved from normal position.

If the switch wires are routed where hot air flow or grease is expected, then use electrical conduit to provide a safe path through the hood to exit near the Odour & Grease Removal enclosure connection point.

NOTE: Biozone strongly recommends that the hood manufacturer include magnetic proximity (Reed) switches for each grease filter in the hood design. These should be linked in series so that if any filter is removed, the circuit will be interrupted.

If installing Odour & Grease Removal on an existing hood, then mechanical limit switches should be placed on each filter and linked in series.



05. INSTALLATION

PRESSURE SWITCH

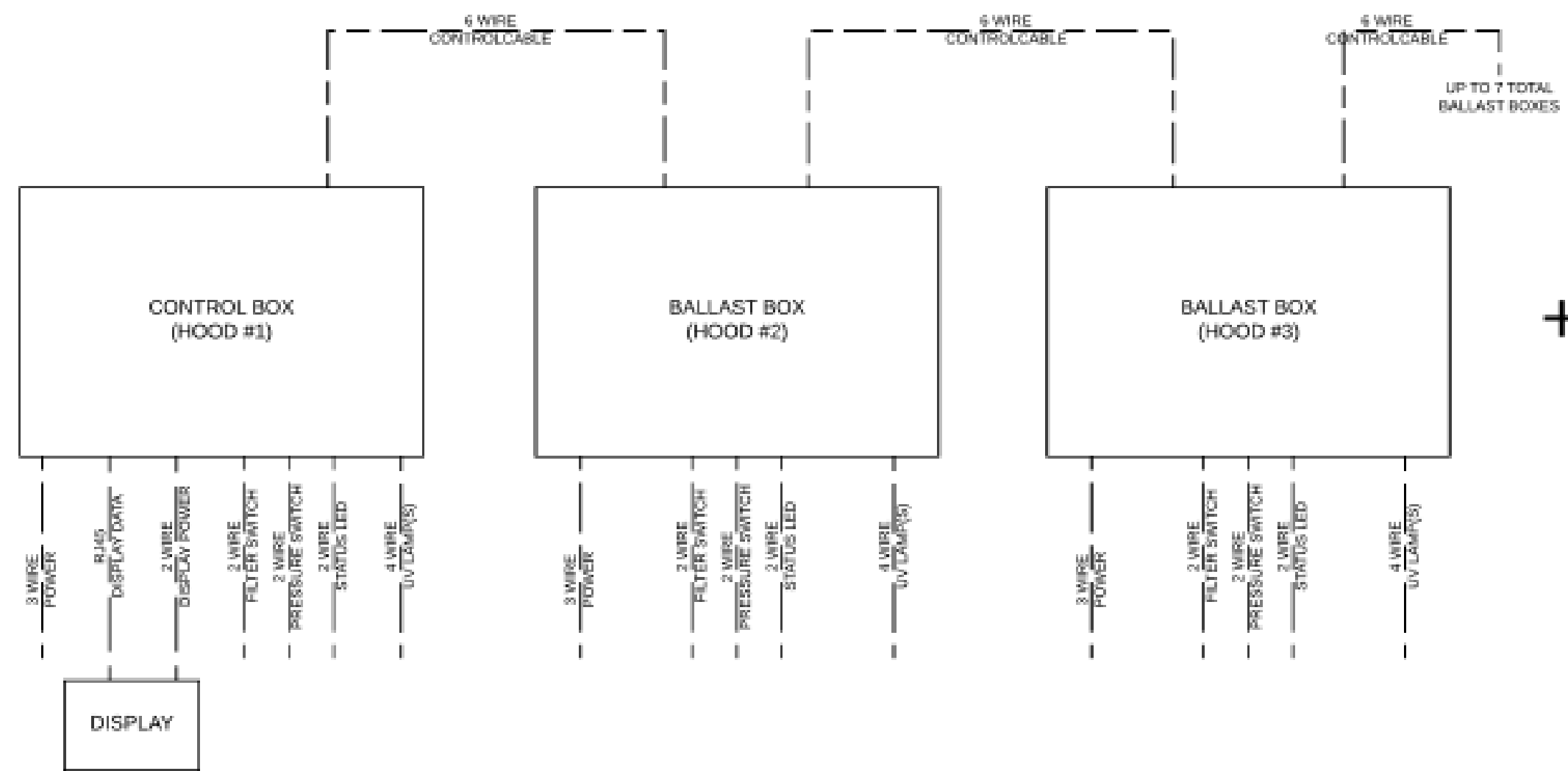
The Pressure Switch monitors exhaust duct air pressure to provide automatic on/off synchronized with the hood. If the fan stops, then the Odour & Grease Removal system will turn off to prevent ozone build-up in the kitchen.

- Install the static pressure tap in the exhaust duct or on the hood behind the grease filter bank. The tap must penetrate from above or from the side, never underneath to prevent exhaust vapors from condensing inside tubing.
- Mount the pressure switch nearby. The pressure tubing ports should be pointed vertically down or horizontal. NEVER mount the switch with the ports pointed vertically upward.
- Route tubing (1/4" or 6mm inner diameter) from the tap to the negative pressure port (P2) on the switch.
- Ensure the cabling is connected to the normally open (NO) terminals in the switch.
- (Optional) BioZone pre-sets the switch to the lowest switching threshold. This threshold can be adjusted by removing the cap, then turning the dial knob to the desired setting.



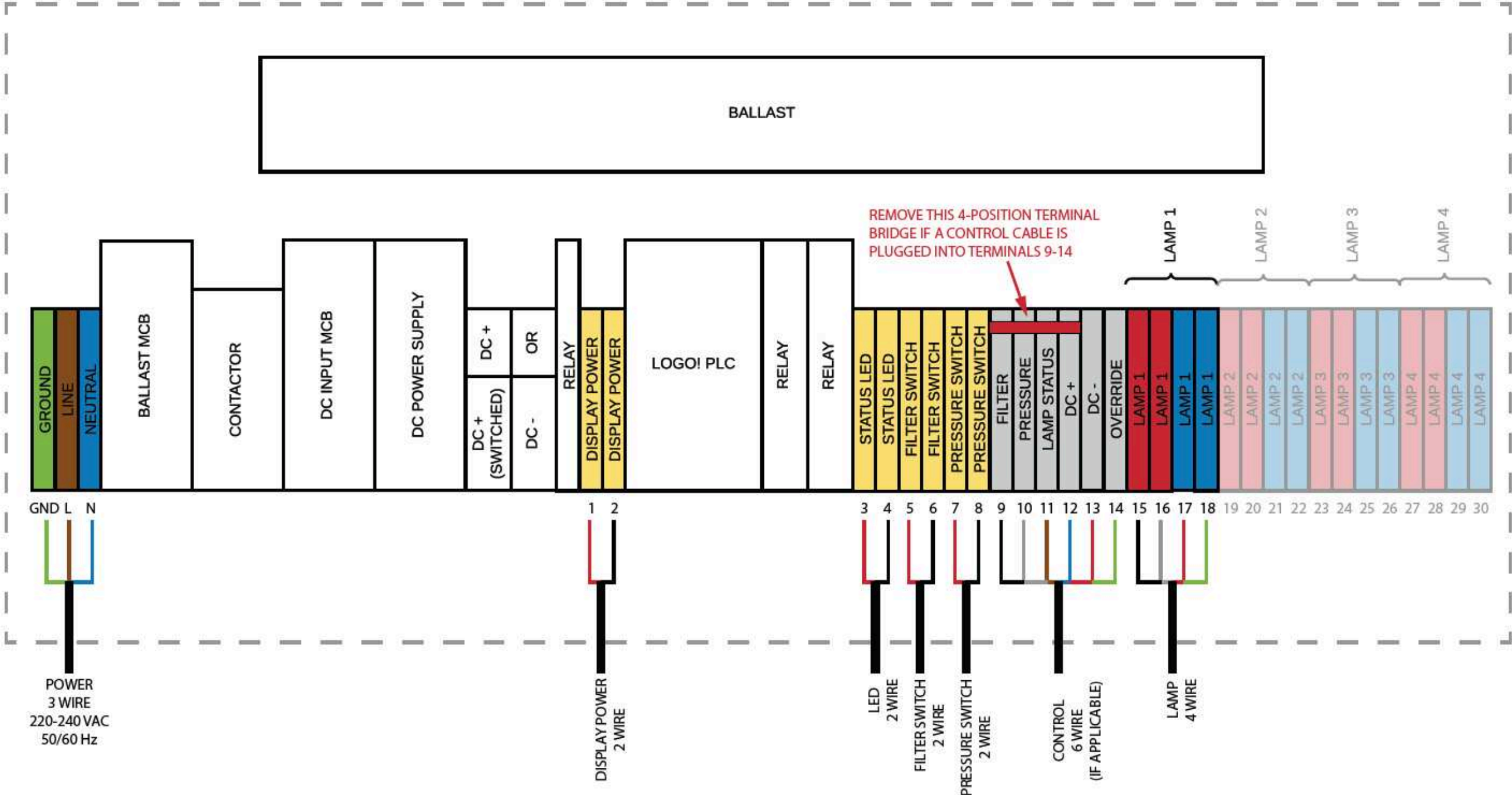
05. INSTALLATION

PRESSURE SWITCH



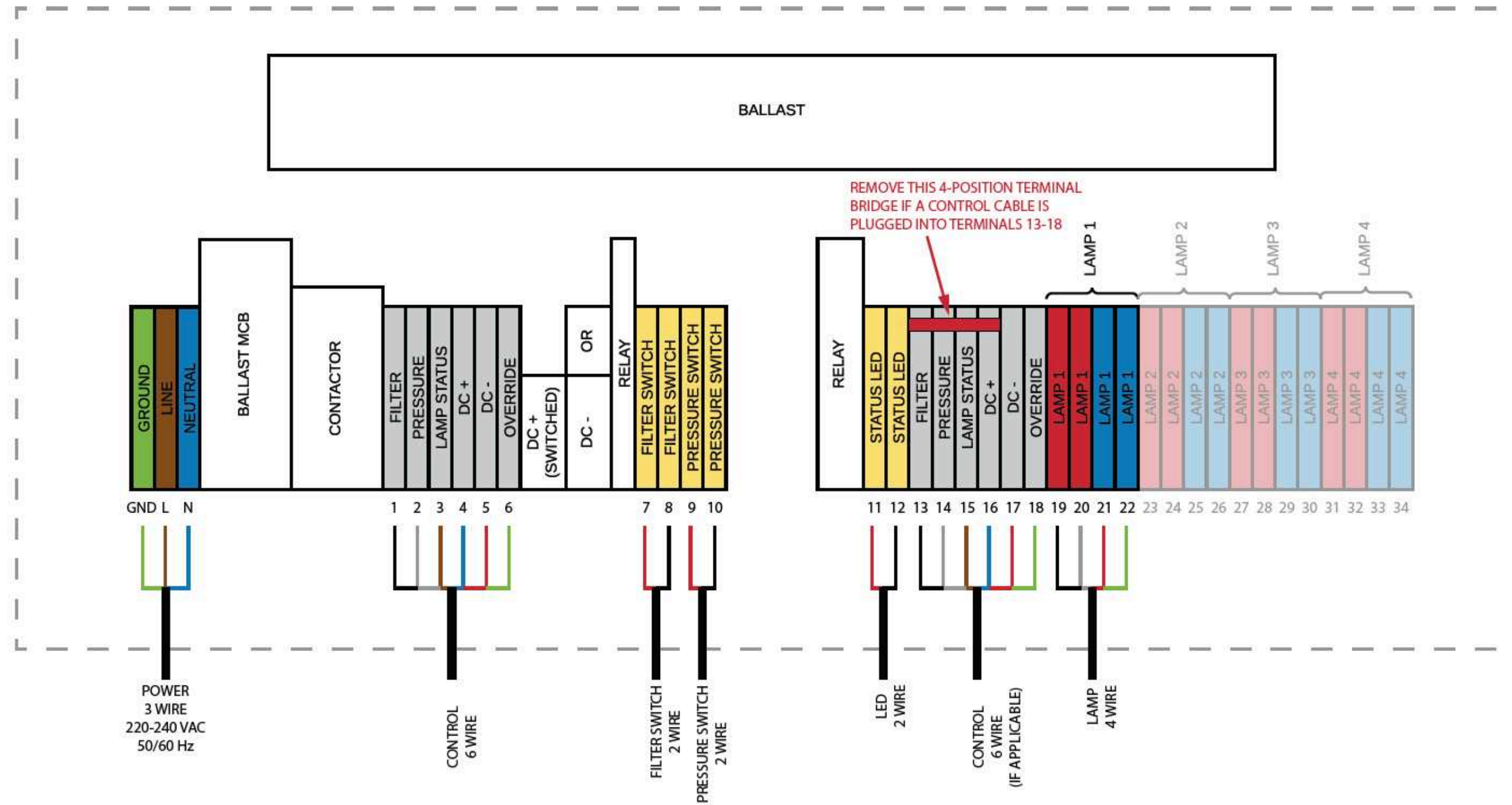
05. INSTALLATION

ODOUR & GREASE REMOVAL EX CONTROL BOX WIRING GUIDE



05. INSTALLATION

ODOUR & GREASE REMOVAL EX BALLAST BOX WIRING GUIDE



05. INSTALLATION



WIRING GUIDE: COMPONENT TO ENCLOSURE CABLES

CABLE	CONTROL BOX (Wire Colour: Terminal #)	BALLAST BOX (Wire Colour: Terminal #)
Display Data	Exterior Modular Jack	n/a
Display Power	Red:#1 Black:#2	n/a
LED Indicator	Red:#3 Black:#4	Red:#11 Black:#12
Grease Filter Switches	Red:#5 Black:#6	Red:#7 Black:#8
Pressure Switch	Red:#7 Black:#8	Red:#9 Black:#10
Lamp 1	Black:#15 White: #16 Red:#17 Green: #18	Black:#19 White: #20 Red:#21 Green: #22
Lamp 2 (if applicable)	Black:#19 White: #20 Red:#21 Green: #22	Black:#23 White: #24 Red:#25 Green: #26
Lamp 3 (if applicable)	Black:#23 White: #24 Red:#25 Green: #26	Black:#27 White: #28 Red:#29 Green: #30
Lamp 4 (if applicable)	Black:#27 White: #28 Red:#29 Green: #30	Black:#31 White: #32 Red:#33 Green: #34

WIRING GUIDE: BALLAST BOX TO CONTROL BOX

The control cable links the Odour & Grease Removal enclosures together. A single Control Box (CB) can process the signals from up to 7 additional Ballast Boxes linked in series. Refer to the table below and on the following page for the correct wiring terminals between boxes.

CABLE	CONTROL BOX (Wire Colour: Terminal #)	BALLAST BOX (Wire Colour: Terminal #)
Control	Black: #9 White: #10 Brown: #11 Blue: #12 Red: #13 Green: #14	Black: #1 White: #2 Brown: #3 Blue: #4 Red: #5 Green: #6

WIRING GUIDE: BALLAST BOX TO BALLAST BOX

CABLE	BALLAST BOX #1 (closer to CB) (Wire Colour: Terminal #)	BALLAST BOX #2 (further from CB) (Wire Colour: Terminal #)
Control	Black: #13 White: #14 Brown: #15 Blue: #16 Green: #17 Red: #18	Black: #1 White: #2 Brown: #3 Blue: #4 Green: #5 Red: #6

05. INSTALLATION

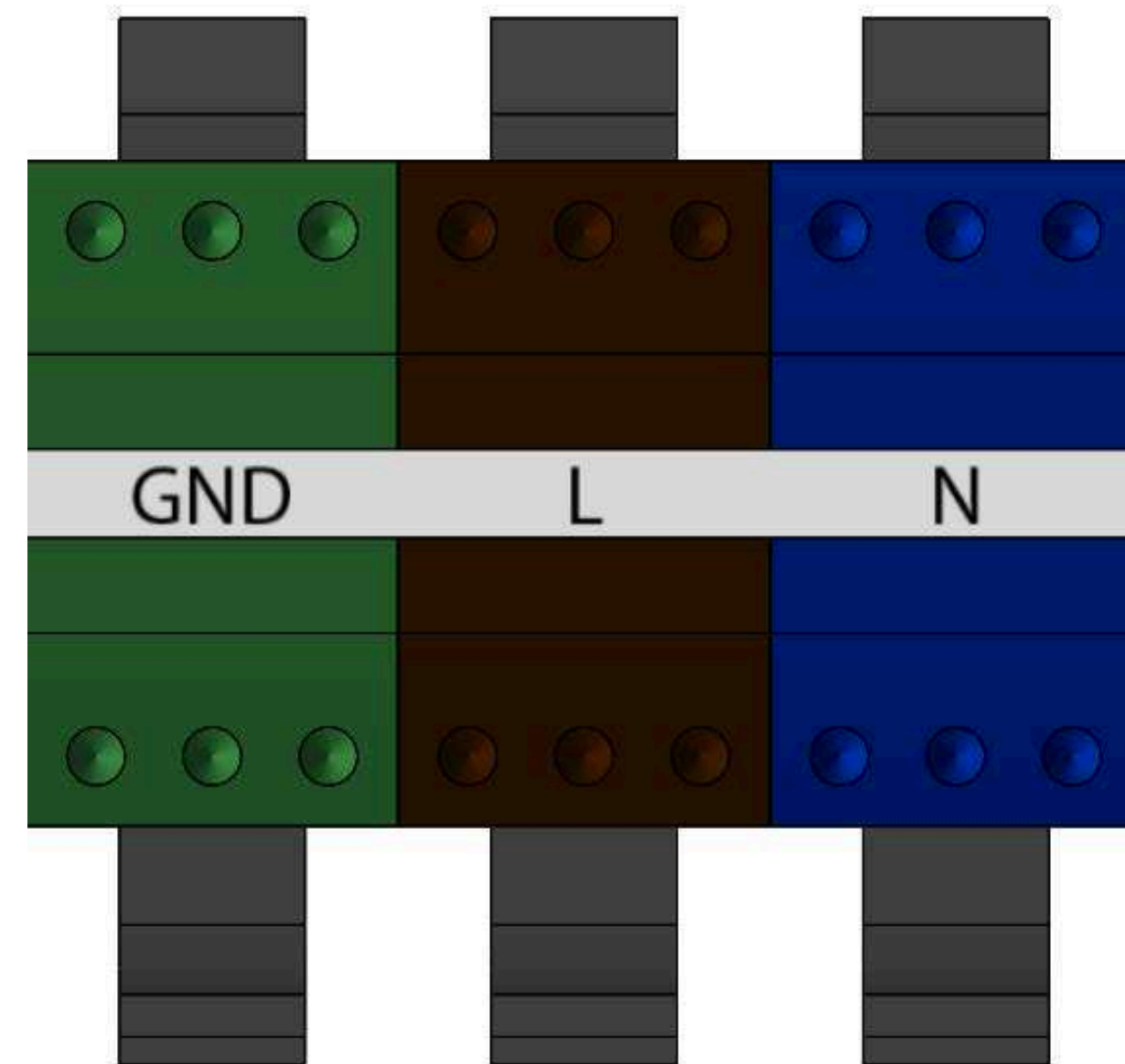
POWER WIRING

Electrical Supply: 220-240VAC, 50/60Hz

GROUND wire to the GREEN distribution block

LINE wire to the BROWN distribution block

NEUTRAL (LINE 2) wire to the BLUE distribution block



05. INSTALLATION

IMPORTANT: REMOVE TERMINAL BRIDGE

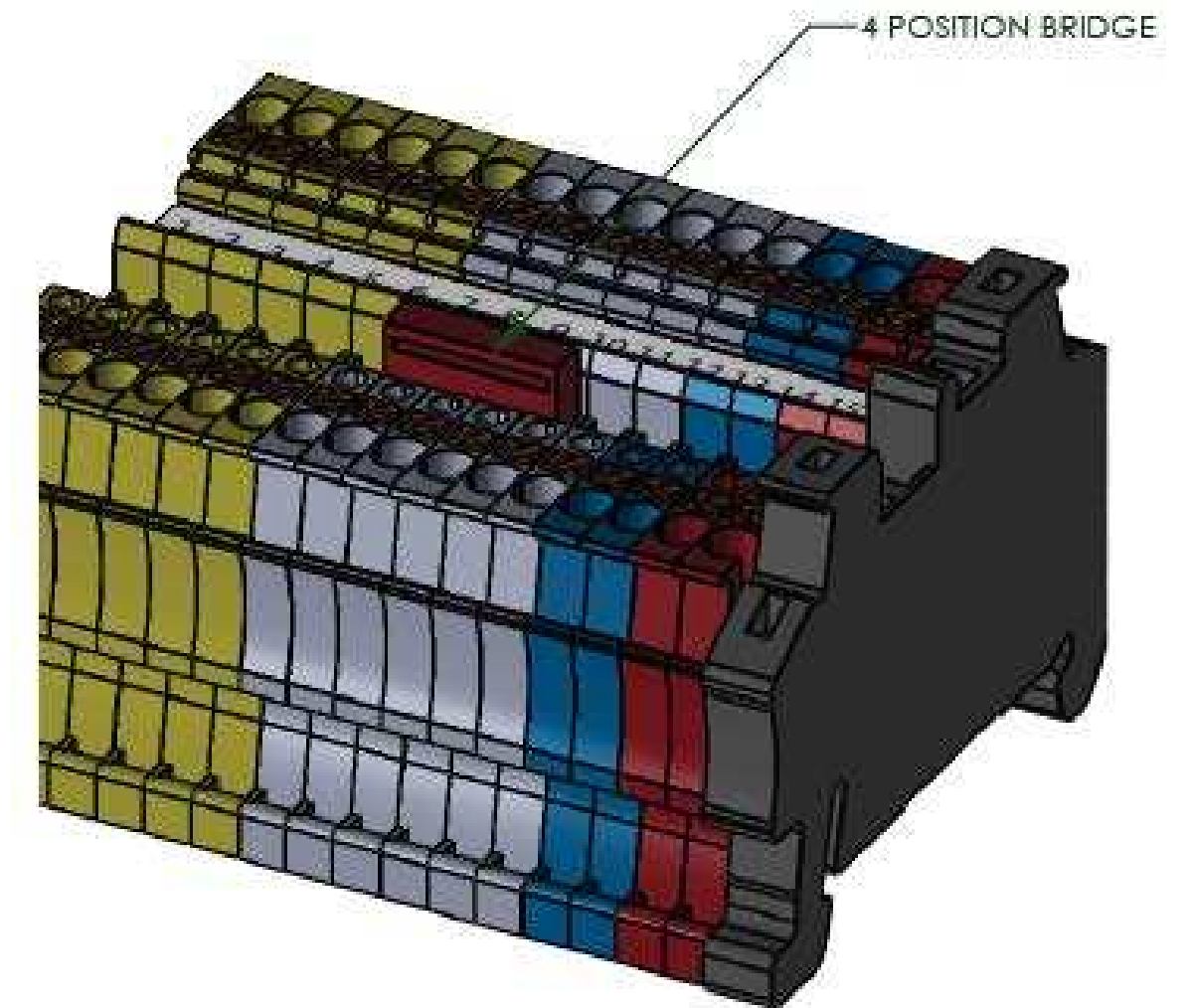


THIS BRIDGE MUST BE REMOVED FROM ALL TERMINALS EXCEPT THE BOX AT THE END OF THE CONNECTION LINE

Each control box has a 4-position bridge across Terminals 7-10.
Each ballast box has a 4-position bridge across Terminals 13-16.

Example: 4 hoods in the kitchen - 1 control box and 3 daisy chained ballast boxes. The bridge must be removed from the control box and ballast boxes #1 and #2, but left in place on ballast box #3.

If only the control box is used with no connected ballast boxes, then the bridge must remain in place.



05. INSTALLATION

INSTALL THE UV LAMPS



DO NOT clip onto the lamp glass.

Do not touch the glass portions of UV lamps with bare hands. The natural oils on skin may react with the glass to create a dead space and impede function. The use of gloves is recommended when handling UV lamps. Wipe UV lamp with isopropyl alcohol as needed to clean glass.

- Clip the ceramic lamp base into the lamp clips on the brackets in the hood.
- Attach the lamp connector to the latching connector base mounted in the hood.



06. DEVICE USE

POWERING UP THE SYSTEM

Caution: UV light can cause serious eye burns and temporary blindness. Ensure all baffles have been replaced and access ports closed before activating the system.

Turn on the electrical supply, turn on the hood fan, and activate the Odour & Grease Removal system from the display panel by pressing the On/Off button



06. DEVICE USE

DISPLAY PANEL OVERVIEW

On/Off

Turns on or off all ballast boxes simultaneously. If a safety condition for any hood is not met (air flowing, filters in place, lamp connected) then that individual hood is placed in standby mode and all others will turn on.

Mute

Press and hold for 3 seconds to disable the audio alarm. The audio alarm occurs if a filter is removed while Odour & Grease Removal is in operation. Mute will last for 24 hours or until the problem is corrected. Mute will also reset if the system is turned off and then on again.

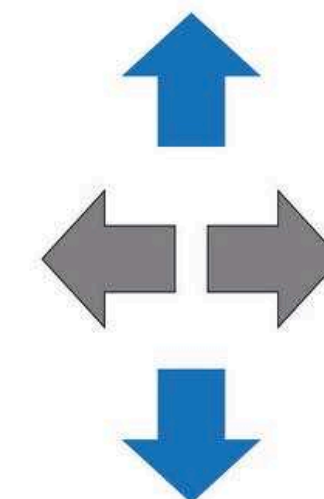
Override

Press and hold for 3 seconds to active Override mode. Override sends the command for Odour & Grease Removal to turn on even if the safety conditions are NOT met. Override mode lasts for 60 seconds.

Lamp Reset

Press and hold for 3 seconds to reset the lamp run-time counter. UV lamps lose effectiveness (hood cleaning power) over time. The display will notify the user when the operational lamp hours have been exceeded. Replace the old lamp with a new lamp, then press and hold Lamp Reset for 3 seconds until the hours count returns to 0.

OGR UV Cleaning System



On/Off



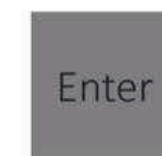
Mute



Override

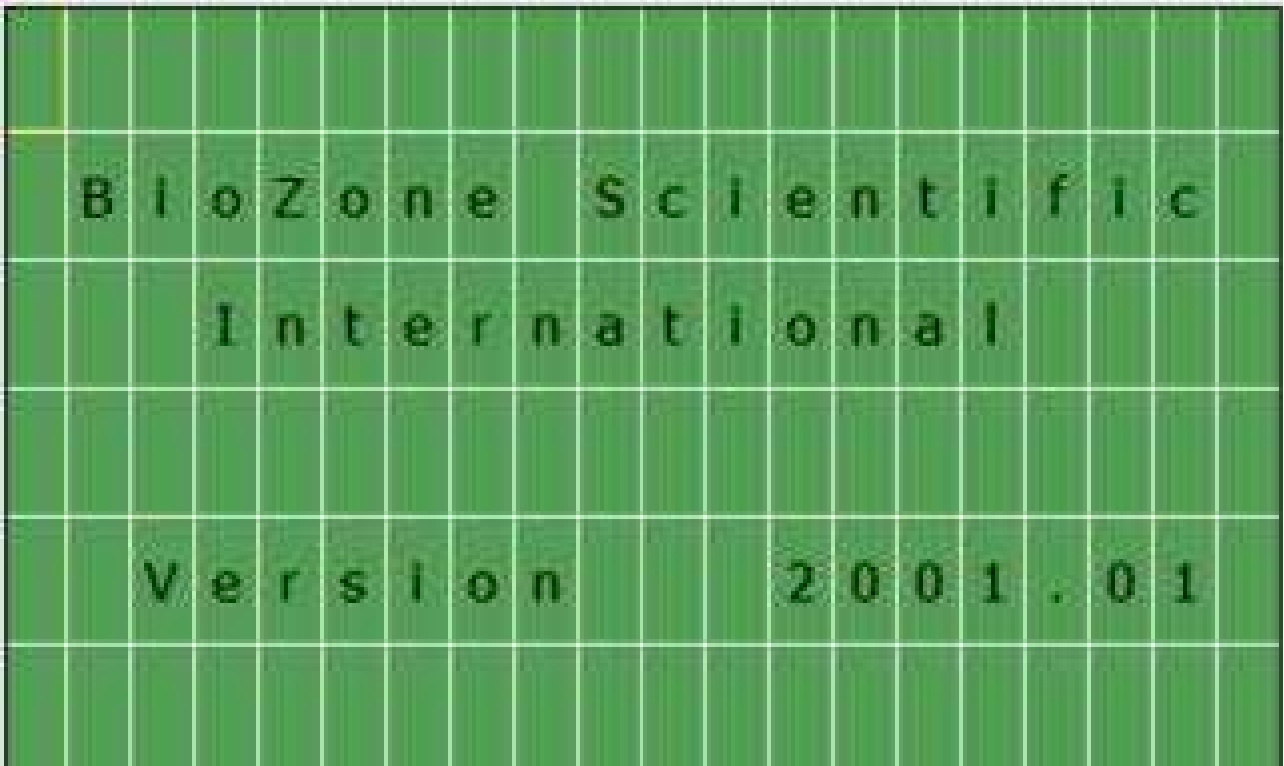


Lamp Reset

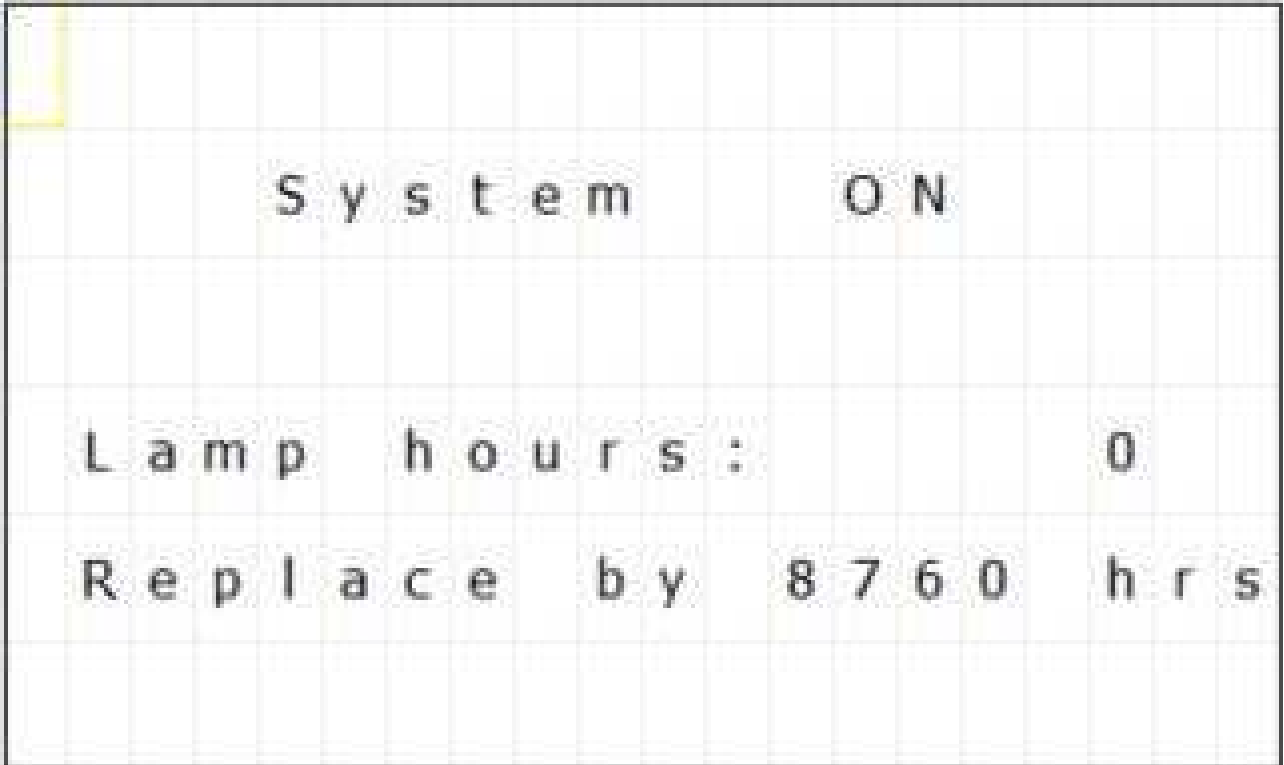


WARNING! Odour & Grease Removal uses powerful UV rays and ozone production to clean your hood. Odour & Grease Removal UV rays can cause permanent eye damage if viewed directly. Override mode should only be used for diagnostic purposes by trained persons who have adequate UV protection.

DISPLAY PANEL OVERVIEW

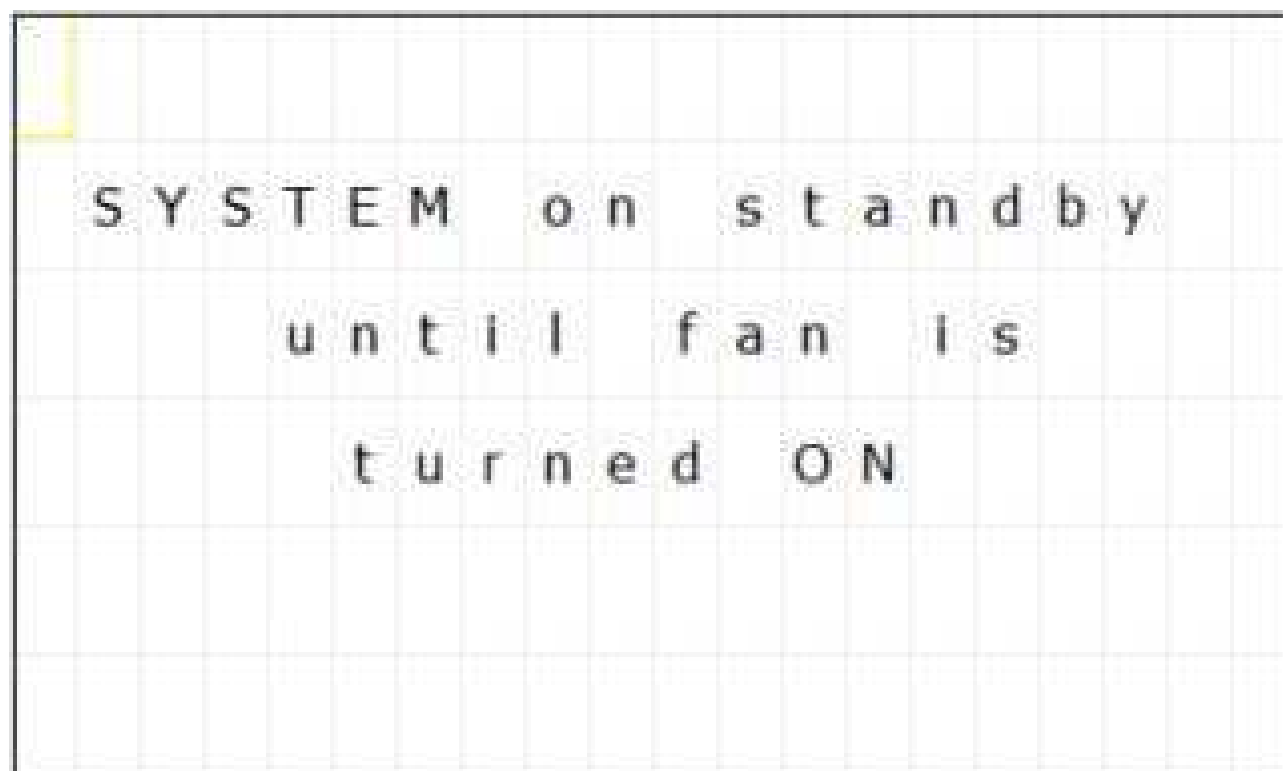


Home Screen
Welcome message appears on startup.
Firmware version displayed.



Normal Operation (On)
System operational status displayed.
The number of hours the UV lamps have operated is displayed.

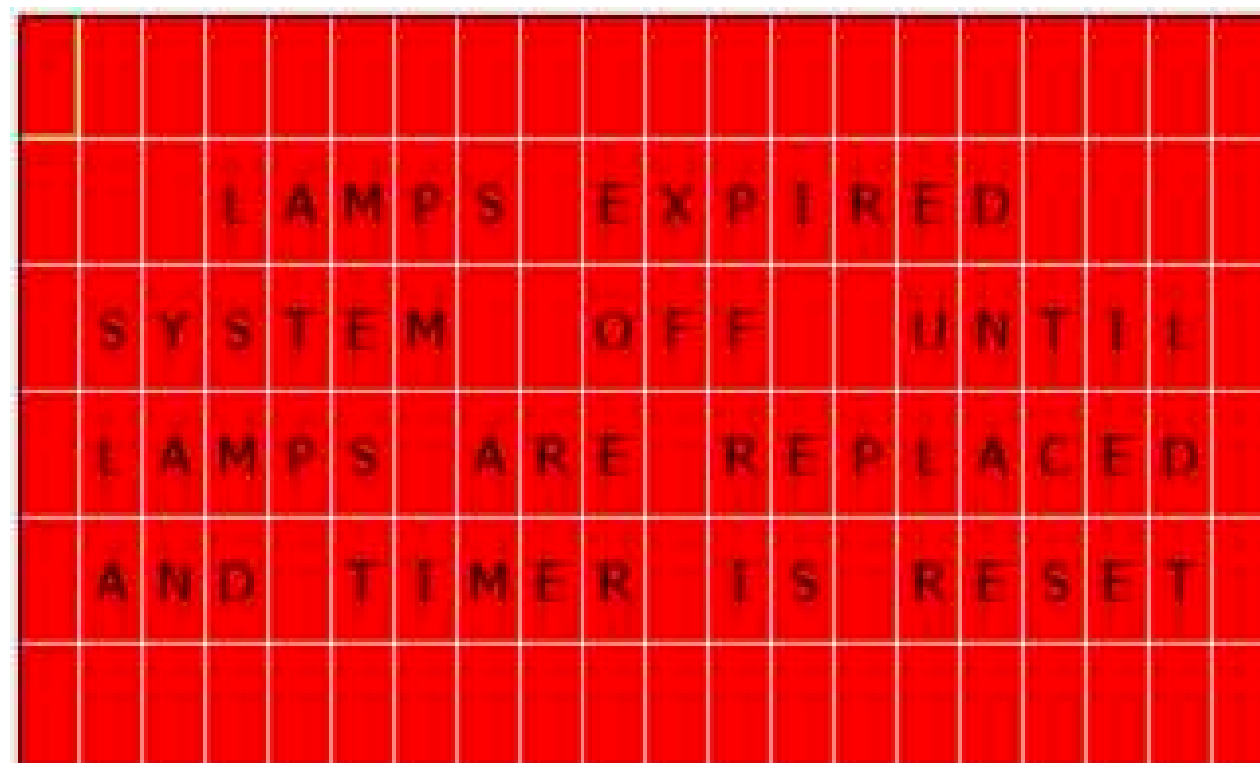
DISPLAY PANEL OVERVIEW



Standby

The system has detected that the exhaust air is not flowing properly in one or more of the connected hoods.

The system will automatically turn on when the fan is turned on and exhaust air is flowing once again.



Lamps Expired

The lamps have reached the end of useful service life.

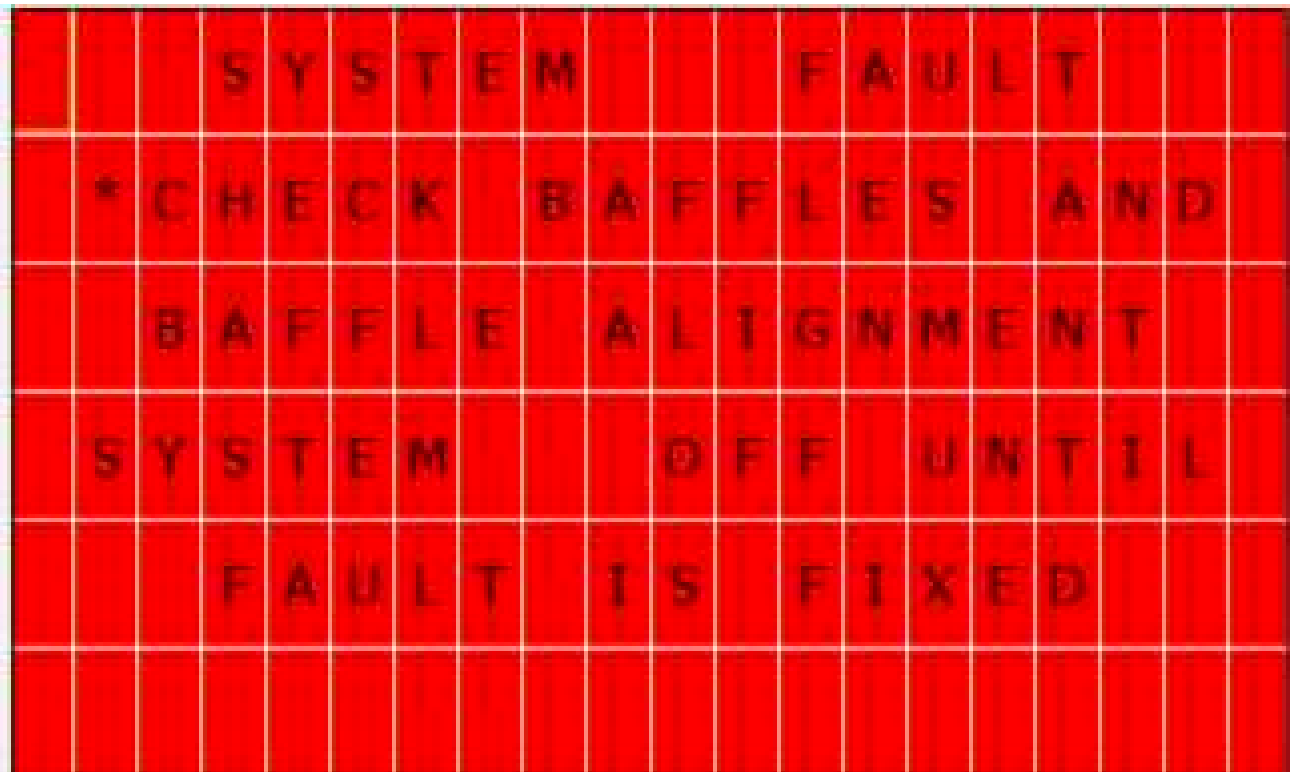
The system is turned off until the lamps have been replaced. Once lamps are replaced, hold the LAMP RESET button for 3 seconds to reset the lamp timer.

DISPLAY PANEL OVERVIEW



Lamp Failure

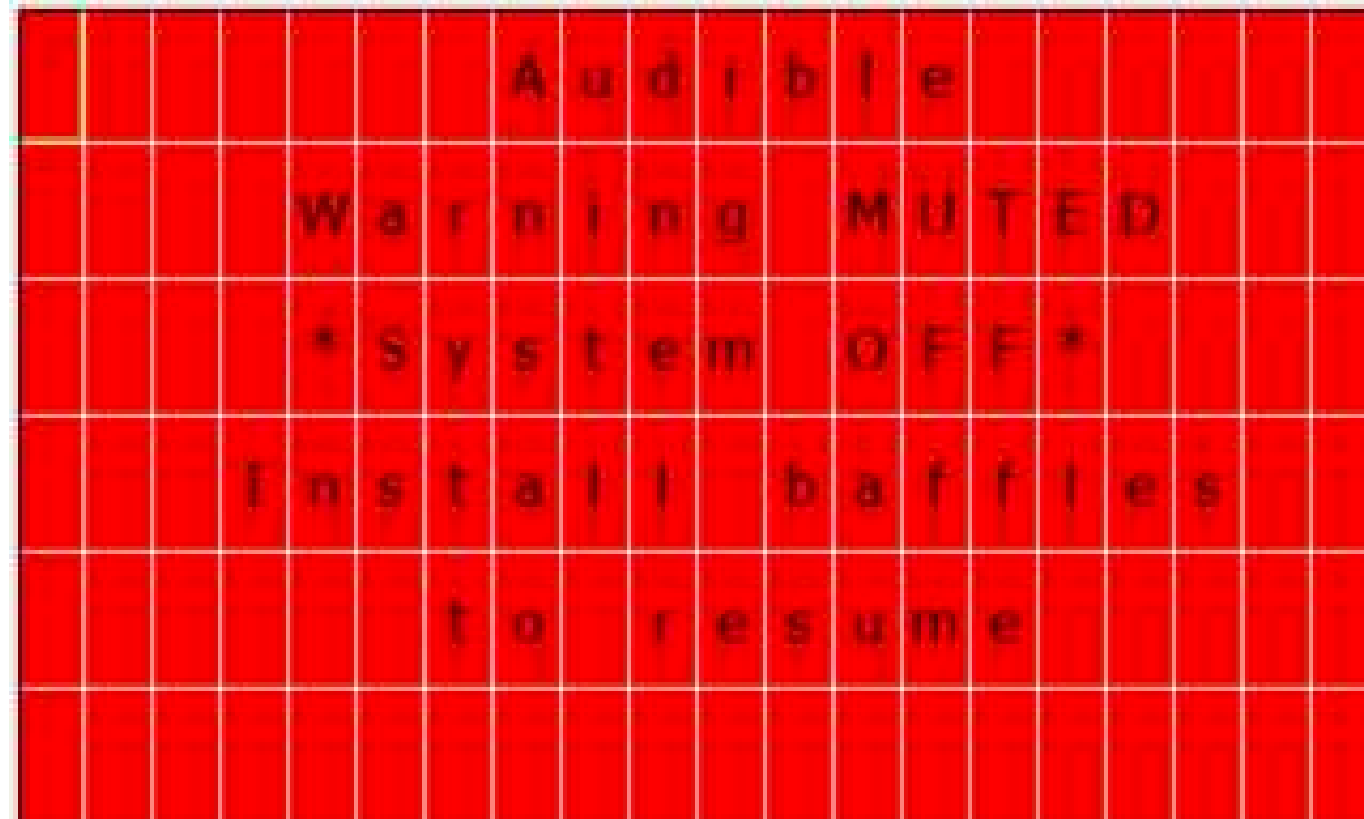
The system has detected that a lamp did not ignite.
Disconnect from power. Check lamp connections and then turn
Odour & Grease Removal on again. If message still appears,
replace affected lamp.



Baffle Removed

The system has detected that one or more of the grease filters has
been removed. (An audible alarm will be sounding until the filter
replaced, the MUTE button is pressed, or Odour & Grease Removal
is turned off.)
The lamps in the affected unit are disabled until the filter is replaced
and the interlock switch circuit is closed.

DISPLAY PANEL OVERVIEW



Audio Warning Muted

Audio warning occurs if grease filters are removed while system is on.
Press and hold the MUTE button for 3 seconds to silence the warning.



Override

Hold the Override button for 3 seconds to override the safety circuit cutoffs and activate the UV lamps.

**THIS SHOULD ONLY BE DONE BY DIAGNOSTIC PROFESSIONALS
WHO HAVE ADEQUATE UV PROTECTIVE GEAR!**

07. LAMP CLEANING AND REPLACEMENT



ATTENTION: Avoid touching the glass portion of the lamps with bare fingers. Use gloves or a cloth to handle the lamps. If the glass is touched, use isopropyl alcohol to wipe the glass surface clean.

1. **Disconnect the power supply.**
2. **Allow 10 minutes for the lamps to cool.**
3. **Unplug the lamp connectors from the lamps.**
4. **Remove the lamps from the lamp clips.**
5. **Wipe the lamps with alcohol to clean the glass surface.**
6. **Place the cleaned lamp or new lamp into the lamp clips.**
7. **Connect the lamp connector observing the correct orientation of the pins.**
8. **Reconnect the power supply.**

Disposing of the lamps according to local hazardous waste disposal laws. The lamps are disposed of at the same facilities as household fluorescent bulbs or compact fluorescent lamp bulbs. The lamps contain mercury.

Biozone Scientific HIGH OUTPUT (HO) lamps are rated for 9000 hours (~1 years) of germicidal effectiveness on Odour & Grease Removal systems.

The lamps will continue to illuminate with a blue glow after they have exceeded their rated lifespan, however their germ-killing effectiveness diminishes with time, so they must be replaced on schedule for the system to function properly.

Contact your local dealer for replacement lamps



IMPORTANT!

Use only authentic Biozone Scientific replacement lamps. Use of replacement lamps from other manufacturers will immediately void the system warranty and affect performance of the system.

08. TROUBLESHOOTING



ATTENTION: Servicing Odour & Grease Removal requires a qualified maintenance professional. Disconnect power before cleaning or servicing the Odour & Grease Removal.

ISSUE

UV lamp(s) not lighting

CHECK

- Check that 220-240V power is applied to all control and ballast boxes and the system is turned ON at the display.
- Does the display show any error messages for the hood? System is checking for low pressure, baffle interlock switch, lamp ignition, and lamp runtime.
- Does the contactor inside the box make an audible “click” when the UV is turned on or the Override mode is activated?
- If yes, then signals from the control box are arriving at the ballast box
- If no, then double-check all terminal connections for the 5 position control/signal cable between each box.
- Ensure that the 4 position jumper only exists on the LAST box in the control chain.
- If only a single hood out of many is not igniting, then check the safety input connections that would prevent that hood from igniting the lamps
- Baffle switch - alarm and warning message if switch is opened while system is on
- Pressure tubing - warning message displayed if low (negative) pressure is not detected. System will say it is waiting for the fan to be turned on.
- Check connections between ballast box and lamp
- Check the wiring position and terminal connections for the 4 position lamp cable(s) from to confirm proper connection
- Check that the lamp connector inside the hood is fully seated and the latch is closed.
- Open the control/ballast box and confirm the circuit breaker is closed. If power surges occur, an external power supressor may be needed
- Swap lamps with one that is known to work. If substitute lamp ignites, then prior lamp is defective and will need to be replaced.

UV lamp(s) flickering

- UV lamp(s) have reached end of effective service life. Install new lamp(s) of same type.
- If unit is new, check the lamp connectors are firmly seated against the lamp base to ensure proper electrical connection
- Consult Biozone

UV lamps have burned out prematurely

- Consult BioZone

09. WARRANTY AND CERTIFICATIONS

WARRANTY

Biozone Scientific provides a standard 1-year warranty on its products. Warranty coverage starts from the date of purchase.

WARRANTY CONDITIONS

- The appliance is guaranteed against defects in material and workmanship under normal use and appropriate voltage for one year from the purchase date.
- Warranty does not apply to any appliance that has been tampered with, altered, subjected to misuse, abnormal voltage input, power interruption, electric shock, negligence, accident, force majeure, or if the serial number has been altered, effaced, or removed.
- Failures due to improper or unreasonable usage, maintenance, accident, improper packing, unauthorised tampering, alteration, or modification will not be covered under warranty as determined by Biozone Scientific.
- Any unsanctioned repairs of the interior or exterior finish of the casing, control plate, knobs, accessories, or consumable parts will void warranty.
- Replacement lamps are excluded from warranty coverage; Biozone Scientific lamps are covered by a 1-year prorated warranty.
- Any repairs or replacements of defective parts by Biozone Scientific will be covered under warranty.
- Transportation or shipping costs to or from the repair facilities are not covered under warranty.
- Warranty is valid only when using Biozone Scientific replacement lamps and parts.
- Biozone Scientific engineers will determine whether the product will be repaired or replaced at their sole discretion.

09. WARRANTY AND CERTIFICATIONS

WARRANTY

Please note that this warranty supersedes any other written warranty, whether expressed or implied, written or oral, including a warranty of merchantability or fitness for a particular purpose. The manufacturer's maximum liability shall not exceed the actual purchase price paid for the product. Additionally, the warranty will be considered void if the label bearing the serial number has been removed or defaced.

WARRANTY RETURN PROCESS

1. Contact your supplier for specific return instructions and to receive your RMA (Return to Manufacturer Authorisation) number. Any return not labelled with an RMA number will be systematically refused.
2. Pack the product in its original box and in the same manner you received it or as similar as possible. Label the outside of the box with your RMA number.

3. Return the product with proof of purchase. Any return not including a proof a purchase will be systematically refused.
4. Label and ship the unit, freight prepaid to the address provided with your RMA number.

CERTIFICATIONS

RoHS



09. WARRANTY AND CERTIFICATIONS

Materials

Control Box: CE-marked components, IEC-conforming assembly; not for food contact

Electrical Conduit and Junction Boxes, as Required: Not provided; use materials compliant with specifications and codes outlined by the local jurisdiction having authority.

Gaskets and Seals: High temperature silicone; Generally Regarded as Safe (GRAS) by the US FDA

Lamps: Ceramic, Quartz, PTFE-coated wires; Generally Regarded as Safe (GRAS) by the US FDA

Metallic Parts (enclosures, brackets, fasteners, etc.): Stainless Steel 304; Generally Regarded as Safe (GRAS) by the US FDA

Electrical

Voltage: 220 – 240V AC, 50/60Hz

Current: Control Box = $1.0A + 1.75A \times (\text{lamp quantity})$

Ballast Box = $1.75A \times (\text{lamp quantity})$

Operating Temperature: 70°C

Components inside hood (lamps & lamp connectors): 100°C

10. SAFETY GUIDELINES

CONDITIONS OF USE

USAGE SAFETY



CAUTION: Carefully read all safety warnings and instructions. Failing to adhere to these warnings and instructions may result in severe injury or, in extreme cases, even death.

In the following safety warnings and instructions, the terms "device" or "product" refer to the Odour & Grease Removal.

ELECTRICAL SAFETY

- Refrain locating enclosures such that they are touching grounded elements such as pipes, heaters, boilers, and refrigerators. There is a higher risk of electric shock if the grounded device is exposed to rain, comes into direct contact with a wet surface, or operates in a moist environment. Water getting into the device drastically increases the risk of device damage and electric shock.
- Do not touch the device with wet or damp hands.
- Use cables solely for their intended purpose. Never use cables to transport the device. Ensure the cable remains clear of fire, sharp objects, or moving components.
- Compromised or tangled cables heighten the potential for electric shock.

- If you find yourself using the device in a damp environment as an unavoidable necessity, it is advisable to incorporate a residual current device (RCD). The use of an RCD significantly diminishes the risk of electric shock.
- Do not operate the device if the cables exhibit damage or display signs of wear. A cable should be replaced by a qualified electrician.
- To prevent the risk of electric shock, avoid submerging the device itself in water or any other liquids. Likewise, do not use the device on wet surfaces.
- Take precautions to shield the enclosures from moisture, as exposure may lead to an elevated risk of electric shock.

SAFETY IN THE WORKPLACE

- Ensure that your workspace is clean and well-lit. A cluttered or poorly lit workspace can increase the risk of accidents. Exercise foresight, pay attention to ongoing activities, and apply common sense when operating the device.
- If you come across any damage or irregular operation, promptly turn off the device and report the issue to a supervisor without delay.
- If there are any uncertainties regarding the correct operation of the device, contact the manufacturer's support service for guidance.
- Only the manufacturer's authorised service point should undertake repairs on the device. Do not attempt any repairs on your own.
- In the event of a fire, use a powder or carbon dioxide (CO₂) fire extinguisher designed for use on live electrical devices to extinguish it.

10. SAFETY GUIDELINES

- Please retain this manual's **QR code** for future reference. If you transfer the device to a third party, ensure the QR code is passed on along with it.
- Keep the device out of reach of children and animals.

PERSONAL SAFETY

- Do not operate the device when tired, unwell, or under the influence of alcohol, narcotics, or medications that could significantly impair your ability to use the device safely.
- The device is not intended for use by individuals, including children, with limited cognitive and sensory capabilities, or by those lacking relevant experience and knowledge, unless they are under the supervision of someone responsible for their safety or have received proper instruction on device operation.
- Only physically fit individuals, who have received appropriate training, are familiar with this manual, and have been educated in occupational health and safety, should handle the device.
- While working with the device, exercise common sense and remain vigilant. Lapses in concentration during device operation can result in injury.
- To prevent accidental activation of the device, ensure that the switch is set to the OFF position before connecting it to a power source.
- The device is not a toy. Children must be supervised to prevent them from engaging in play with the device.

USE GUIDELINES

The device is designed to clean cooker hoods and ducts. The user is liable for any damage resulting from unintended use of the device.

INSTALLATION SAFETY

- It is the installer's responsibility to ensure the device is installed correctly and safely.
- UL 710C standard requires that, "the (UV) emissions ... shall not exceed $0.1\mu\text{W}/\text{cm}^2$ throughout the UV spectrum ... at a distance of zero cm (0.0 inches) away from the any opening of the equipment."



ATTENTION! Despite the safe design of the device and its protective features, and despite the use of additional elements protecting the operator, there is still a minor risk of accident or injury when using the device. Stay alert and use common sense when using the device.

10. SAFETY GUIDELINES

SAFE DEVICE USE

- Do not use the device if the ON/OFF button or display panel malfunctions.
- Ensure the power is disconnected before making any adjustments or replacing consumables. These precautions minimize the risk of unintentionally activating the device.
- Do not allow children or individuals who are unfamiliar with the device and have not read the user manual near the device. Inexperienced users can pose a safety risk when handling the device.
- Maintain the device in good condition. Before each use, inspect it for any general damage, with particular attention to cracked parts or elements, as well as any other issues that might affect safe operation. If damage is detected, send the device for repair before using it.
- Keep the device out of reach of children.
- Device repairs or maintenance should only be carried out by qualified individuals using original spare parts to ensure safe usage.
- To preserve the device's operational integrity, avoid removing factory-fitted guards and refrain from loosening any screws.
- When transporting and handling the device from the warehouse or storage to the destination of use, adhere to the occupational health and safety guidelines applicable in the country where the device will be used.
- Do not move, adjust, or rotate the device while in operation.
- Regularly clean the device to prevent the buildup of stubborn grime.
- The device is not a toy, and children should not perform cleaning and maintenance tasks without supervision from an adult.
- If any treated room has a suspected residual Photoplasma™ level higher than normal level, leave the room and wait 20 minutes.
- It is prohibited to modify the device's structure to alter its parameters or construction.
- Keep the enclosures and cables away from open flame.
- Do not overload the device.
- Individuals with impaired sense of smell should refrain from using the device.
- Before turning on the device, ensure there is sufficient open space around it.
- Under no circumstances should you directly inhale Photoplasma™ emitted from the lamps. Inhaling high concentrations of Photoplasma™ over a short period or low concentrations of Photoplasma™ over an extended duration may pose serious health risks or even be life-threatening.
- Do not use the equipment for therapeutic purposes.
- Do not look at Photoplasma™ lamps when lit ; UV light may damage eyes.
- No UV light should leak out of the system when installed. Overexposure to UV radiation can lead to serious health issues.
- If respiratory, eye, nose and throat irritation, shortness of breath, chest pain or coughing is experienced, seek fresh air immediately. Seek medical attention if necessary. Disconnect power from device and please contact your doctor.