# OPERATING MANUAL FOR MEAT AGEING REFRIGERATOR

## IMPORTANT INFORMATION (PLEASE RETAIN THIS DOCUMENT)

**This Manual covers the installation, operation and routine maintenance requirements for the following Williams Refrigeration products:**

**MAR1**

**Please read this Manual carefully before connecting the appliance.**

**Provided the instructions in this Operating Manual are read and implemented correctly, the optimum performance and reliability of your equipment should be maintained.**

**We assume the installer, user and service provider are appropriately trained, skilled and competent to properly and safely carry out the work, and will use the necessary safety equipment, and take the necessary precautions required of their intended work.**

**Improper installation, maintenance or repair may put the user at considerable risk.**

**Williams cabinets are available in a choice of temperature ranges and specific ambient ratings.**

**Temperature parameters are set as follows:**

| | |
|---|---|
| Meat Ageing (MA) | +1°C (34°F) / +6°C (43°F) |

**General Regulations**
**Declaration of Conformity:**

| Refrigerant Designation | Global Warming Potential | Ambient Climate Class |
|---|---|---|
| HC - R290 | 3 | 5 |

Williams Refrigeration declares that all products manufactured by Williams Refrigeration comply with the above directives as they apply to those products, and those products are therefore declared to be in conformity with the provisions of the above legislation.

Model No.: .....

Serial No.: .....

# IMPORTANT REFRIGERATION AWARENESS

## WARNING

**SYSTEM CHARGED WITH FLAMMABLE REFRIGERANT**

**REFRIGERANT:R290 (REFRIGERANT GRADE PROPANE ONLY)**
Ensure all operatives are aware the appliance contains an environmentally friendly but flammable refrigerant.

**Technical Safety and Advice**
All appliances are only to be installed by persons who are appropriately trained, skilled and competent to properly and safely carry out the work, and serviced by qualified engineers for the handling of hydrocarbon refrigerants

Ensure procedures are adhered to in the following Operating Manual.

**Should a suspected leak become apparent, immediately evacuate the area and remotely switch off the cabinet.**

**DO NOT remove the plug from the socket as this could act as a source of ignition. Leaking refrigerant may ignite and cause injuries.**

Keep ventilation openings in the appliance enclosure or in the structure clear of obstruction.

Contact Williams Refrigeration on +44 (0) 1553 817 000, stating the suspected fault.

# IMPORTANT SAFETY INFORMATION

**Warning:**
Do not store explosive substances such as aerosol cans with a flammable propellant in this appliance.

**Warning:**
Do not use electrical appliances inside the food storage compartments of this appliance.

**Warning:**
Keep ventilation openings of the appliance enclosure or the structure of built in equipment, clear of obstruction.

**Warning:**
Do not use mechanical devices or other means to accelerate the defrosting process.

**Warning:**
Do not damage the refrigerant circuit, i.e. pipe work or components.

## ELECTRICAL

The appliance must be disconnected from its power source during cleaning; when maintenance and the replacement of parts is required, the equipment must be safely disconnected and isolated from the power supply using a lock-off system at the isolation device.

It is advised that the electrical supply to the equipment is protected by an appropriately selected Residual Current Device (RCD) with a rating no greater than 30mA. RCD's should be tested at least every three months to ensure they are functioning correctly.

If the supply cord is damaged, it must be replaced by a service engineer or other qualified person. Only the supply cord supplied by Williams Refrigeration must be used.

Fixed wiring appliances (those not supplied with a plug) shall incorporate a switch disconnector to meet the specification of IEC 60947; this is to be installed within the fixed wiring installation in accordance to the local wiring rules / regulation to provide all pole disconnection of the power supply.

# INSTALLATION

## REMOVAL OF REDUNDANT APPLIANCES

Refrigeration appliances contain refrigerant and gases in their insulation and must be disposed of professionally by a licensed waste management contractor.

Please ensure that old or redundant refrigeration appliances are disposed of safely and legally. It is recommended that doors are removed prior to disposal in order to ensure safety.

## UNPACKING

Remove all external and interior packing and accessories. Ensure all such material is disposed of safely.

Check that no damage has occurred to the appliance, the tubing of the refrigeration system power cable and plug top during transit. If damage has occurred do not use the appliance.

The appliance should be installed in a well ventilated room on a flat and level floor.

## PROTECTIVE COATING

The polished stainless steel surfaces are protected during manufacturing and transport by an adhesive plastic coating.

This should be removed prior to placing your appliance into use. Carefully peel away to reveal the polished stainless steel surface. Care should be taken to ensure that no adhesive residue remains on the surface. Any stubborn or tough adhesive marks can be removed by following the advice on Page 7.

## VENTILATION

Refrigerators generate a considerable amount of heat and, if operated in a small unventilated room will quickly cause the room temperature to become excessive. This could cause the motor to overheat and possibly damage the compressor. At the very least, such an installation will cause the unit to use an excessive amount of electricity.

In addition to ventilation in a room, please ensure that cabinets with top-mounted systems have 500mm clearance between the cabinet top and the ceiling for engineer access and ventilation. For all other cabinets, please ensure a minimum clearance of 50mm is provided around the unit to ensure efficient and effective performance.

**Do not block vents by stacking boxes on top or in front of the unit as this could affect performance and give rise to safety risk.**

## LEVELLING (CASTORS/FEET)

The appliance should stand level to ensure the correct operation of self-closing doors and proper drainage of condensate from the evaporator.

Models fitted with castors are non-adjustable. Therefore a level platform / floor should be provided where the appliance is to be located. Where swivel and brake castors are fitted and it has been positioned, please ensure its brakes have been activated by pressing the metal bar down. Remember to release the brakes before trying to move it.

On models fitted with legs, levelling may be achieved by adjusting the bottom section.

## MAINS CONNECTION

**Commercial kitchens and foodservice areas are environments where electrical appliances may be located close to liquids, or operate in and around damp conditions or where restricted movement for installation and service is evident.**

Great care must be exercised at all times when installing, operating, or servicing this appliance.

For appliances fitted with a moulded plug for safety, ensure that the mains power cable is extended free from the refrigeration system to avoid entanglement. If a plug or mains cable requires replacement, contact the Williams Spares Office on +44(0)1553 817017.

The installation of a fixed appliance and periodic inspection should only be undertaken by a qualified, skilled, and competent electrician; and connected to the correct power supply suitable for the load as stipulated by the appliance data label.

The electrical installation and connections should meet the necessary requirements to the local electrical wiring regulations and any electrical safety guidelines.

All appliances rely upon a suitable connection to earth to ensure safe operation. If in doubt, contact a qualified, skilled, and competent electrician before using the appliance.

**We recommend:-**

- **Supplementary electrical protection with the use of a residual current device (RCD)**
- **Fixed wiring appliances incorporate a locally situated switch disconnector to connect to, which is easily accessible for switching**

**off and safe isolation purposes. The switch disconnector must meet the specification requirements of IEC 60947**

**If the appliance has been laid on its back or tipped, DO NOT switch on immediately. Leave in an upright position for at least 3 hours before switching on.**

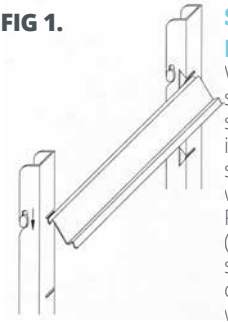
**Your attention is drawn to:-BS 7671:2018 - Guidance note 8 - 8.13 : Other locations of increased risk**
It is recognised that there may be locations of increased risk of electric shock other than those specifically addressed in Part 7 of BS 7671. Examples of such locations could include laundries where there are washing and drying machines in close proximity and water is present, and commercial kitchens with stainless steel units, where once again, water is present.

Where because of the perception of additional risks being likely, the installation designer decides that an installation or location warrants further protective measures, the options available include:

- Automatic Disconnection of Supply (ADS) by means of a residual current device having a residual operating current not exceeding 30mA;
- Supplementary protective equipotential bonding; and
- Reduction of maximum fault clearance time.

The provision of RCDs and supplementary bonding must be specified by the host organisation's appointed installation designer or electrical contractor and installed by a suitably qualified and competent electrician so as to comply with Regulations 419.2 and 544.2. RCD's should be tested at least every three months to ensure they are functioning correctly.

**FIG 1.**



## SHELF/SLIDE FITTING/ MEAT RAIL

When positioning slides on standard cabinets, present slide to racking by holding it in the opposite hand to the side of the cabinet to that which they are to be applied. Present slide at 45° angle (figure 1). When in place, let slide drop into position to create a horizontal ledge on which the shelves will sit.

## LOADING / SHELF DISTRIBUTION

**Before loading, allow the appliance to reach its normal operating temperature.**

When loading the appliance, please ensure that its load is equally distributed throughout and ensure air can circulate around and through stored products. Ensure all items are covered and that raw and cooked foods are stored separately.

Care should be taken when loading the appliance. Do not obstruct the air ducts. Take care of any parts with possible sharp edges.

## CATCH PAN

A catch pan is located beneath the himalayan salt blocks. These should be periodically checked and emptied as required.

## LOCKING FACILITY

On models with a locking facility, it is recommended that the key be removed from its lock during normal working use. This will prevent bending or breaking of the key which could result in the lock having to be replaced.

Removing the key will also prevent accidental locking when the door is open. This will prevent the door from closing properly and cause the interior temperature to rise. If not checked in time, a loss of food may result.

## AGE MEAT ONLY

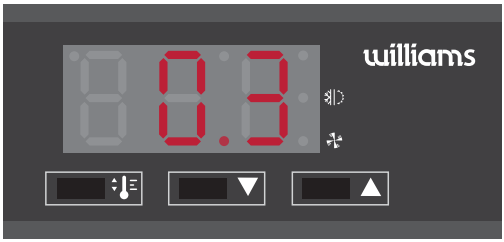
The Meat Ageing Refrigerator is not designed for ageing fish. Doing so will cause detrimental damage to the refrigeration system, thereby drastically shortening the operational life of the product and consequently voiding the appliance's warranty.

# CONTROLLER

## CONTROLLER / DISPLAY

The display should be checked daily to ensure that the correct temperature is being maintained.

## CONTROLLER




### Switching on your Appliance

Your equipment is delivered ready to run. Plug into the mains and the appliance is ready to use. '- -' will appear and the temperature displayed. Wait until the cabinet has reached normal operating temperature (indicated on the controller) before loading.

### Key to Controls

| | |
|---|---|
| | Temperature set / Information menu |
| ▼ | Decrease / Scroll Down |
| ▲ | Increase / Scroll Up |
| | Unit running indicator |
| | Evaporator fan running indicator |

## ADJUSTING THE OPERATING TEMPERATURE

The thermostat is built in to the controller and is adjustable between factory set parameters.

All units are factory pre-set, however conditions on site will vary compared with test conditions and it maybe necessary to perform the following adjustments in order to obtain a perfect temperature cycle.

## ADJUSTMENT OF CONTROLLER

To adjust operating temperature, press and hold key for 3 seconds. Use ▲ ▼ keys to adjust.

## PROBE FAIL SAFE FEATURE

The controller features a fail-safe condition. In the event of a temperature probe failure, the compressor will alternate at 5 minute intervals indefinitely between 'running' and 'not running' and E1 or E2 will be displayed. Normal compressor function will only be restored when the probe fault has been repaired.

Should a probe failure occur please contact Williams Refrigeration Spares Office on +44 (0) 1553 817000 for a replacement part stating the unit's serial number.

## INFORMATION VIEW MODE

A single press of will activate information view mode. It is possible to scroll forward through the references with ▲ and backwards with ▼ .

To view a result, scroll to desired reference, press and hold , release to stop viewing and automatically move to next parameter.

To exit information view mode, ▲ and ▼ simultaneously or wait 10 seconds and controller will exit automatically.

It is possible to clear recorded values of HI, LO and CR by pressing ▲ or ▼ when viewing the value of relevant reference by holding button marked

The following parameters are available for viewing:

| | |
|---|---|
| **T1** | Current air probe temperature |
| *** T2** | Current evaporator probe temperature |
| *** T3** | Current auxiliary probe temperature |
| **** Hi** | Highest recorded cabinet temperature |
| **** Lo** | Lowest recorded cabinet temperature |
| **cr** | Number of weeks since last condenser clean |
| *** =** | Optional (will only appear in information view mode if parameter T2 is set to YS and/ or T3 is set to NO/AU/FP). |
| **** =** | If parameter T3 is set to FP, HI and LO temperatures will be logged from auxiliary probe.<br>If T3 is not set to FP, HI and LO temperatures will be logged from air probe (T1). |

## HUMIDITY DISPLAY

The humidity display indicates the cabinet's internal relative humidity.

# APPLIANCE ROUTINE MAINTENANCE / CLEANING

## ROUTINE MAINTENANCE

Regular servicing of the appliance should be undertaken to ensure correct operation, it is functioning as intended and safe to use.

Safely disconnect the appliance from the power suppy before cleaning, servicing or undertaking general maintenance.

This appliance must be maintained at regular intervals. The frequency of maintenance will depend upon your specific use and location. The maximum service interval should be 12 months.

Service and maintenance should only be undertaken by suitably qualified, trained and competent engineers.

We recommend servicing in accordance with SFG20 Maintenance Schedules and as a minimum, after **4,500** hours of use, or annually, whichever comes first and that a maintenance contract be arranged with an appointed service contractor. Visits may then be made at agreed intervals to carry out required safety tests, functional checks, adjustments and repairs.

## CLEANING

Always wear appropriate personal protective equipment (PPE) when cleaning the appliance. Care should be taken for parts with possible sharp edges.

Stainless steel is naturally corrosion-proof and needs no additional protective coating to maintain its gloss and usability for a long time.

Abrasive or corrosive cleaning agents should never be used. These can damage surfaces and cause corrosion. They include:

- Cleaners containing chloride;
- Bleaches containing hypochlorite (if accidentally spilled on stainless steel, rinse off with water immediately and thoroughly);
- Silver polish

If the cabinet exterior is looked after correctly it will retain an “as new” finish for many years. A damp cloth is usually sufficient for wiping away light dirt, food debris and finger marks and normal day to day cleaning should be carried out with a soft cloth and soapy water.

Dry thoroughly afterwards and where possible remove all racking, shelving and drawer fittings to aid the process.

Kitchen fats, oils and greases can also cause brown spots or staining to appear on the stainless steel surface.

For stainless steel with visible polishing grains, clean the steel with the grain - not against the grain. When water has been used for cleaning or rinsing, wipe the surface dry to prevent water from drying and forming watermarks, especially in areas with hard water. Avoid this type of watermark by using distilled water.

For tougher spots, creamy polishes like CIF original cream can be effective. Light pressure should be used when cleaning with the grain. The cleaning process should be repeated in order to prevent any dirt becoming lodged in the surface grain again.

CIF original cream cleaner can also be used for wiping off water spots and can alleviate discoloration. Remove this type of residue by rinsing with clean, preferably distilled water and wipe away any remaining streaks of polish or watermarks.

Tough grease or oil marks can also be removed using denatured alcohol or acetone. There is no risk of corroding stainless steel by using such solvents. For ease of use limit the amount of solvent used. Wash more than once using a pure solvent on a clean soft rag until all traces of the greasy residue are removed.

**Specialist Stainless Steel Cleaners - Non food contact surfaces only**

Innosoft B570 is a special deep cleaner that is suitable for the intensive cleaning of contaminated stainless steel surfaces, and removes stains and oxides in a single operation.

Innoclean B580 completely removes any residues left after the use of Innosoft B570 and passivates the surface which helps to prevent further corrosion.

## SHELF / SUPPORT/ RACKING REMOVAL

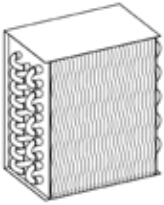
First remove the shelves, then remove the shelf supports by grasping firmly in the centre and lifting slightly. Turn the shelf support towards the interior of the cabinet by pushing it in the centre as you twist the support through 90°. The shelf support will be released. (NB: the supports are designed to be anti-tilt and you may therefore experience some resistance at first which will be overcome with practice). When all shelves have been removed, remove the racking by lifting up and over the nylon retaining blocks.

## CONDENSER CLEANING

Regular maintenance should be carried out on a regular basis by competent / trained personnel. The condenser is part of the refrigeration unit and is located in the unit compartment.

Brush fins vertically with a stiff brush, taking care not to damage them or to push dirt / dust further in, and then vacuum away.

**FIG 2.**



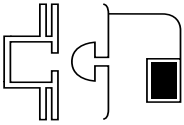
## TOP MOUNTED CABINETS

The condensing unit and refrigeration equipment can be accessed from above or in some cases behind. Remove fixings in the top and bottom edges of the unit cover and pull the unit cover away from the cabinet and retaining clips.

## CLEANING / REPLACING THE GASKET

Door gaskets should be checked and cleaned regularly and replaced if damaged. To clean the gasket, wipe with warm soapy water and a soft cloth, ensuring it is completely dry before closing the door. **DO NOT** use a sharp knife to clean or scrape the gasket. Damaged gaskets do not seal correctly and can increase the amount of electricity consumed, seriously affecting the efficiency and performance of the appliance.

Damaged gaskets are easily



replaced. Simply pull out the existing part and push the new gasket into the channel (gasket retainer) at the centre and work along, pushing gasket into channel.

## EVAPORATOR/DRAIN LINE

Inspect periodically to ensure the drain hole is not blocked.

## CARBON FILTER

A carbon filter is located internally, at the top of the cabinet. Should this need removing, locate the two rubber protected holes on either side and pull downwards to disconnect from the top of the cabinet. Once loose this should be pulled backwards to free the rear of the assembly.

It is recommended that the filter is changed annually to provide optimum efficiency.

## SALT BLOCKS

There are two Himalayan salt blocks at the bottom of the cabinet. These will, over time, dissolve due to contact with moisture, at which point they should be replaced.

Replacements can be obtained through our Spares Department.

## BREAKDOWN

You must immediately report any damage or defect arising with the appliance. Unsafe equipment is dangerous. Do not use the appliance. Isolate the power supply and contact Williams Refrigeration or your appointed Service Provider.

In the event of a breakdown, please contact Williams Refrigeration or your Service Provider

When calling, please advise model and serial number. This information can be found on the data plate inside the appliance. Please ensure that all redundant parts are disposed of safely and legally.

## TROUBLE SHOOTING INFORMATION AND ALARM CODES

| Fault Display | Possible Cause | Action |
|---|---|---|
| Cabinet not operating | No power supply | Check fuse or power source |
| Cabinet not maintaining temperature | 1. Dirty condenser | Clean |
| | 2. Air circulation restricted | Remove restriction |
| | 3. Defective fan motor | Call engineer |
| | 4. Defector compressor relay | Call engineer |
| | 5. Loose electrical connection | Call engineer |
| Faults displayed by control | E1 or E2 - Control probe failure | Call engineer |
| | hi or Lo - High/low temperature alarm* | Call engineer |
| | do - door open alarm | Shut door |

## CHOOSING GENUINE SPARE PARTS

Choosing the correct spare parts is vital to the ongoing running of your appliance - that's why Williams Refrigeration offer a comprehensive network of servicing, support and spare parts all available directly from Williams.

Our spare parts are exactly the same quality and standard as we use to build your appliance and have been rigorously checked, tested and inspected to ensure the very best quality and exact fit.

You can contact us directly for everything from fault diagnosis to parts selection and ordering. Simply provide the serial number of your appliance and we will do the rest to ensure you receive the right part first time.

**For further information please call our Spares Department on 01553 817017**
**or email spares@williams-refrigeration.co.uk**

# PARTS & LABOUR WARRANTY POLICY - UK ONLY

Our warranty applies to equipment manufactured by Williams Refrigeration and equipment bearing the Williams name plate and serial number identification tag.

We undertake, in conjunction with the supplying agent, distributor or representative, to repair free of charge during our standard business hours any such piece of equipment or part thereof used which is found to be faulty in either materials or workmanship subject to the further conditions below:-

## WARRANTY TERMS AND PRODUCTS COVERED

We offer **a 24 months Warranty** from our original date of sale with the following Williams equipment:

1. Garnet / Zircon / Jade / Amber (stainless) / Mobile Heated/ Mobile Refrigerated.
2. Reach-in Blast Chillers / Reach-in Blast Chiller Freezers / Blast Chiller WTBC70.
3. Opal / Emerald / Onyx / Aztra / Salad Counters / UBC / Chef's Drawers / Fry Station Drawer.
4. Crystal Bakery Cabinets.
5. Meat Ageing Refrigerator.
6. Medi+ Cabinets.

We offer a **12 months Warranty** from our original date of sale for all other Williams equipment including:

1. All Modular Products (including coldrooms).
2. Remote Systems.
3. Bottle Coolers / Glass Froster.
4. GEM Multidecks (including heated) and merchandiser cases.
5. GEM product range.
6. Bottle Well / Meat Freezer Well.
7. Thermowell.
8. Non standard and other products.
9. Front of House display cases.
10. White Goods.

## WARRANTY TERMS

Our warranty is offered where the equipment has been installed correctly and has not been subject to misuse or abuse and is functioning correctly.

The equipment was purchased by the authorised supplying distributor direct from Williams Refrigeration and not through a wholesaler or other supplier whose warranty terms may be different.

The Warranty Policy shall be non-transferable.

Replacement of defective equipment can only be made with the approval of Williams Refrigeration.

Any repair under warranty will only be carried out with the product in its position of operation or in a suitable location on the customer's premises. If the product has to be removed for security or any other reason, this will be subject to additional charge (may include hydrocarbon charged equipment).

Warranty work will be covered by Williams Refrigeration or by one of its appointed service agents between the hours of 8.00am and 5.00pm Monday to Friday. Any works undertaken outside of these hours are chargeable.

## RESPONSE TIME

We aim to respond to all warranty calls within 3 working days and will endeavour to respond next working day where practical.

## CLAIMS PROCEDURE

If a customer wishes to make a claim under the terms of this warranty, the following procedure should be observed:

1. Contact the supplying agent, representative or distributor.
2. Quote the equipment model, serial number and date of installation. The serial number is located on the product identification plate inside the cabinet, modular product door frame or similar location. It is recommended that operators should also record the serial number on the operating instruction booklet supplied with the product.
3. Contents risk and insurance responsibility remains at all times with the customer.

## EXCEPTIONS TO STANDARD WARRANTIES

1. The Standard warranty applies to equipment located in Mainland GB only and excludes locations subject to restricted or secure access,offshore and marine applications.

Additional time and travel charges may be applied to the following locations – Isle of Wight, Channel Islands, Isle of Man, Northern Ireland and Scottish Isles.

2. Any fault that is not reported within 10 working days of being discovered.

3. Service calls to equipment under warranty, or service calls made under chargeable arrangements will be carried out in accordance with standard conditions of sale. Unless otherwise specified, a maximum of 15 minutes of administrative time, not spent directly carrying out servicing work, is provided for within the supply. Any requirement for staff attending the call to spend greater time than 15 minutes due to administrative requirements, such as on waiting time or security clearance, or health and safety risk assessments, will be chargeable at our prevailing rate.

   We reserve the right to apply Time Travel & Call out charges if no fault is found with the product or access is either restricted or denied to our attending engineer.

4. No claim shall exceed the original selling price.

5. Claims for Food and / or contents stored in the equipment supplied (including pharmaceutical or other items) and any consequential loss how so ever arising are excluded under our warranty terms.

6. Components including gaskets, doors, drawers, handles, shelves, tray slides, all internal fixings, plug and lead, connectors, the outer shell, castors / legs, food probes, refrigerant and blockages as well as consumable items such as (but not limited to) batteries, fuses, light bulbs, printer cartridges, keys, glass and paper roll.

7. Equipment manufactured to the customers' own design, Williams Refrigeration will not be liable for any defect, non performance or improper operation of the equipment arising from any drawing design or specification supplied by the customer, their representative or agent.

8. Second hand equipment.

9. The customer uses or installs the equipment in such a way that it exceeds its design envelope or operates the equipment at control parameters other than those provided as standard factory settings.

10. The customer fails to observe commonly accepted operating practices.

11. The customer has not properly cleaned or maintained the equipment or carried out necessary servicing, including cleaning of the condenser, in accordance with instructions, literature or directions issued by Williams Refrigeration. (Operating Instructions are supplied with all equipment but also available at www.williams-refrigeration.co.uk).

12. Equipment fails through improper installation by others, misuse, abuse, accidental damage, power loss or fluctuations, fire, flooding or acts of god.

13. Any third party item(s) connected to the equipment that may affect performance.

14. The customer permits persons other than those authorised by Williams Refrigeration to perform or affect repairs or adjustments to the equipment.

15. If authorised representatives of Williams Refrigeration are denied full and free rights of access to the equipment for inspection during normal business hours as previously stated.

16. If repairs are made using spare parts or replacement items not supplied or preauthorised by Williams Refrigeration.

17. The initial equipment supply date shall apply for warranty validity for the subsequent supply of replacement of parts or products.

## EXTENDED WARRANTY

Extended Warranty offers the opportunity to protect your equipment (subject to conditions outlined) for an additional period of up to 5 years inclusive of original warranty periods.

Should you require Extended Warranty, state on your order or notify the Dealer or Williams Sales Manager at the time of purchase and they will be able to arrange it for you.

To ensure your Extended Warranty Policy remains valid, at least one maintenance / service visit per year must take place in years 2, 3, 4 and 5.

**For further information or clarification please call 01553 817000 or email to info@williams-refrigeration.co.uk or write to Williams Refrigeration, Bryggen Road, King's Lynn, Norfolk, PE30 2HZ**

**Williams Refrigeration**
Bryggen Road
North Lynn Industrial Estate
King's Lynn
Norfolk PE30 2HZ
Sales Tel: +44 1553 817000
Sales Fax: +44 1553 817111
Spares Tel: +44 1553 817017
Spares Fax: +44 1553 817020

info@williams-refrigeration.co.uk
www.williams-refrigeration.co.uk

**Williams Silver Frost**
2 rue Conventionnel Huguet
23000 GUERET
France
Tel: +33 5 55 52 27 88
Fax: +33 5 55 62 10 61

info@williams-silverfrost.com
www.williams-silverfrost.com

**Williams Dubai**
P.O. Box 333215
607 Building 1B
Dubai Design District
Dubai
United Arab Emirates
Tel: +971 4 510 8203

sales@williams-dubai.com

**Williams Refrigeration Australia**
38-42 Gaine Road
Dandenong South, Victoria 3175
Australia
Tel: +61 3 8787 4747
Fax: +61 3 8787 4787

sales@williamsref.com.au
www.williams-refrigeration.com.au

**Williams Refrigeration Hong Kong**
Unit C, 12/F., Roxy Industrial Centre,
58 - 66 Tai Lin Pai Road, Kwai Chung,
New Territories, Hong Kong
Tel: +852 2407 5422
Fax: +852 2407 3767

sales@williams-hongkong.com
www.williams-refrigeration.com.hk

www.williams-refrigeration.com

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