

## SYNERGY FROST TOP

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### MODEL NUMBERS

WDRCC2 • WDRCC3 • WDRCC4 • WDRCC5,  
WDRCC2D • WDRCC3D • WDRCC4D • WDRCC5D •

**Caution:** This manual must be read and understood before your appliance is installed, and operated.

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*Please use the box provided below to record your model and serial number for future information, this can be found on the data label on the appliance.*

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Model number:

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Serial number:

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## INTRODUCTION

Thank you for buying a Victor product. Many years of satisfactory use from your purchase can be expected, if the operating, cleaning and maintenance instructions are followed, however failure to do so may affect the warranty.

This manual contains instructions for the safe installation, operation and maintenance of the Victor product, model as stated on the front cover. Check that the model number of your product as printed on the data label matches to one of the model numbers listed.

Instructions for unpacking and installing your new Victor product are located towards the rear of the manual (**see section 10 - INSTALLATION**).

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## 1. UNPACKING AND ASSEMBLY

All protective coating used on stainless steel surfaces of the hot cupboard must be removed. The exposed surfaces can then be wiped clean with a damp cloth, using a mild detergent or soap if necessary.

**Do not use any abrasive material or form of bleach for cleaning purposes.** Please see **Section 5** for cleaning instructions.

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## 2. INSTALLATION

### 2.1. FROST TOP POSITIONING

The Frost Top can be installed in one of three ways, Installed proud of the counter top, Installed flush with the counter top or Installed under the counter top. When installing a Frost Top the following positioning criteria must be followed.

**Warning: Position away from heat sources** - Do not site the appliance in the immediate vicinity of a heat source. Do not site the appliance where warm/hot air can be drawn into the cool air inlet of the appliance, failure to ensure a good supply of coolant air below 25°C can result in the refrigeration system overheating and cutting out. This appliance is fitted with a refrigerant pressure cut-out that will activate and switch the appliance off when the refrigeration system inside cannot cool correctly.

#### Caution: Air vents

Do not position the appliance so as to obstruct the air vents on either the operator or customer sides, or the vents in the plinth, of the appliance (as applicable). Do not place anything in front of the air vents as to obstruct them. Adequate airflows are vital to the correct functioning of the refrigeration system.

#### Caution: Strong draughts

Do not place the appliance in areas subject to strong draughts or under air conditioning systems.

#### Caution: High humidity

Do not place in areas subject to high humidity (e.g. conservatories) as the appliance will act as a de-humidifier, and create excessive amounts of water.

#### Warning: Electrical supply voltage

The appliance is fitted with a 13 Amp fused plug and only requires connection to a 13 Amp socket outlet. This model is suitable for 220 - 240V A.C. 50Hz supply only. Ensure that the electricity supply is as stated on the model's data plate.

#### Warning: Electrical earthing

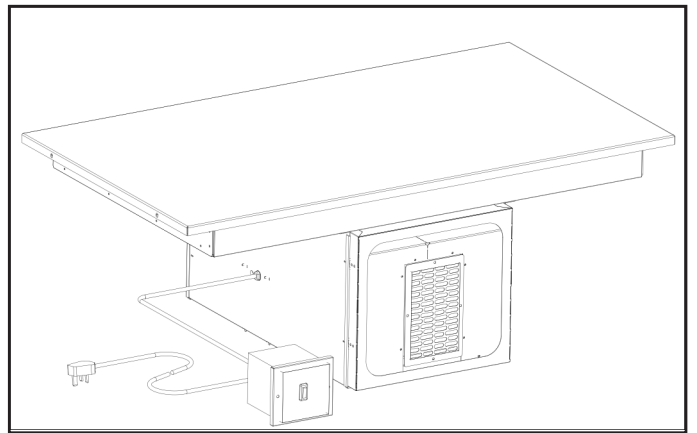
***This unit must be earthed, do not touch internal wiring.***

Wires in the mains lead are coloured in accordance with the following code:

**Green and Yellow - Earth (E)**

**Blue - Neutral (N)**

**Brown - Live (L)**



**Fig. 1 - Synergy Frost Top for use with custom counters. Note the removable front panel for condenser inspection and cleaning**

2.2. FROST TOP PRINCIPLE DIMENSIONS FOR INSTALLATION

The principle dimensions and the aperture sizes for the installation of the “Standard sized”

Frost Top are given in *Figure 2.1* and *Table 2.1* shown below.

**Note:** if you are installing a non-standard sized Frost top then Dim A and B Length/width must be measured and the appropriate aperture size calculated.

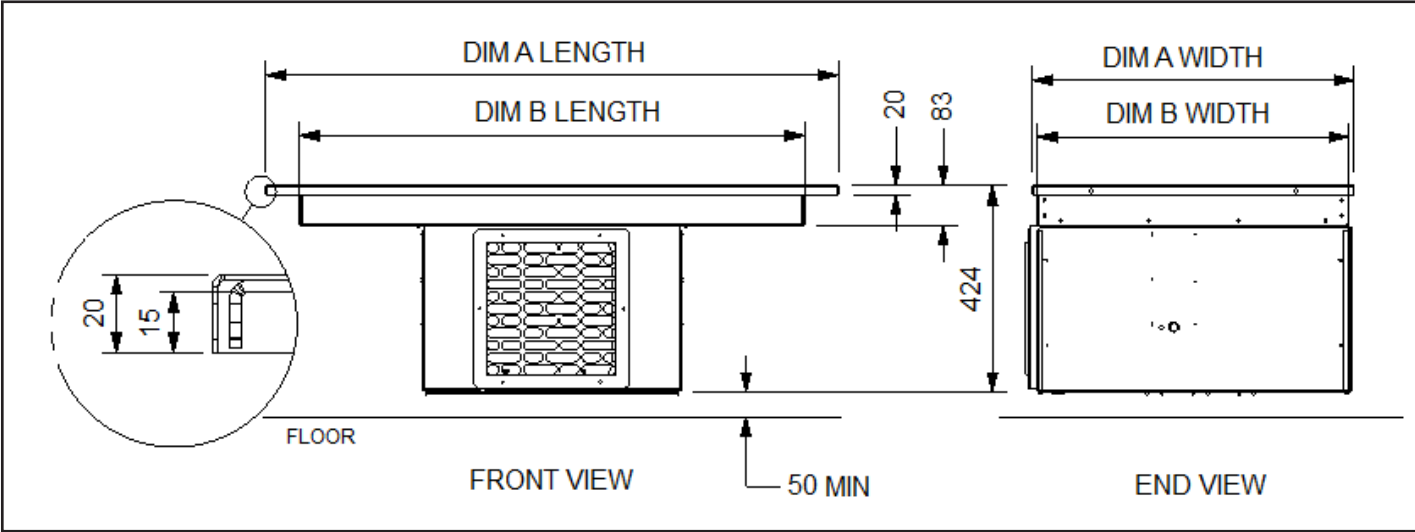


Figure 2.1. Diagram showing Frost Top principle dimensions for installation

Installation Aperture Cut Size Information					
Model	Frost Top Contact Plate	Frost Top Body	Aperture Sizes for the 3 different installation types		
	Dim A - L x W	Dim B - L x W	Counter Top Aperture	Counter Frame Aperture	Support Frame Bars Aperture
Installed Surface Mounted on Counter Top					
WDRCC2/WDRCC2D	850 x 660	711 x 640	731 x 646	731 x 646	n/a
WDRCC3/WDRCC3D	1177 x 660	1038 x 640	1058 x 646	1058 x 646	n/a
WDRCC4/WDRCC4D	1504 x 660	1365 x 640	1385 x 646	1385 x 646	n/a
WDRCC5/WDRCC5D	1831 x 660	1692 x 640	1712 x 646	1712 x 646	n/a
Installed Flush with Counter Top					
WDRCC2/WDRCC2D	850 x 660	711 x 640	854 x 664	854 x 664	731
WDRCC3/WDRCC3D	1177 x 660	1038 x 640	1181 x 664	1181 x 664	1058
WDRCC4/WDRCC4D	1504 x 660	1365 x 640	1508 x 664	1508 x 664	1385
WDRCC5/WDRCC5D	1831 x 660	1692 x 640	1835 x 664	1835 x 664	1712
Installed Under Counter Top					
WDRCC2/WDRCC2D	850 x 660	711 x 640	854 x 664	870 x 680	731
WDRCC3/WDRCC3D	1177 x 660	1038 x 640	1181 x 664	1197 x 680	1058
WDRCC4/WDRCC4D	1504 x 660	1365 x 640	1508 x 664	1524 x 680	1385
WDRCC5/WDRCC5D	1831 x 660	1692 x 640	1835 x 664	1851 x 680	1712

2.3. FROST TOP - INSTALLED SURFACE MOUNTED ON COUNTER TOP:

Table 2.1 Aperture sizes for Standard Sized Frost Tops

To install the Frost Top surface mounted on to a counter top follow, the procedure below after first taking into account the positioning criteria give in Section 2.1.

- With reference to *Figure 2.2*, Section 2.2 and aperture dimension in *Table 2.1* under the heading: “Installed surface mounted on counter top” construct a counter that has:
  - A counter frame aperture of: Dim “B” length plus 20mm by Dim “B” width plus 6mm.
  - A counter top aperture of: Dim “B” length plus 20mm by Dim “B” width plus 6mm.

**Note:** in this type of installation no supporting frame bars as the frost top is supported by the counter frame and top Information on the model number for the Frost Top being installed is on the appliance data label.

Position the Frost Top sufficient distance from any edge so to avoid the counter top cracking. It is common practice using some counter top materials to make the counter top in sections around the aperture.

The frame of the counter may be constructed in either timber or metal box section with a substrate, if required, of either MDF (similar) or sheet steel.

- The frost top must be installed with a minimum distance of 50mm between the base of the unit and the floor.
- With reference to **Section 3.1** for straight through venting or **Section 3.2** for rear venting, cut out the air inlet, air outlet vent holes and control box switch using the top side and center line of the Frost Top as a reference.
- Install in a suitable position a single gang electrical socket on the inside of the counter for the unit to plug into.
- Lift and position the frost top through the counter aperture using the lifting bracket and lifting bar supplied with the Frost Top, feeding the mains lead, plug and control box wiring through first. Remove the lifting bracket and fixing screws once located into position.
- To prevent lateral/twisting movement addition packers and silicone sealant may be required between the unit and the counter frame or frame support bars.
- Place a bead of silicone sealant around the frost top edge to seal it to the counter top. Note choose a sealant colour that matches the counter top.
- Now go to **Section 3.3** and **Section 4.1** to finish installing the air outlet ducting and perform the commissioning setup.

#### 2.4. FROST TOP - INSTALLED FLUSH WITH COUNTER TOP

To install the Frost Top flush with the counter top follow the procedure below after first taking into account the positioning criteria give in **Section 2.1**.

- With reference to Figure 2.3, Section 2.2 and aperture dimension in Table 2.1 under the heading: "Installed flush with counter top" construct a counter that has:

A counter frame aperture of: Dim "A" length plus 4mm by Dim "A" width plus 4mm.

A counter top aperture of: Dim "A" length plus 4mm by Dim "A" width plus 4mm.

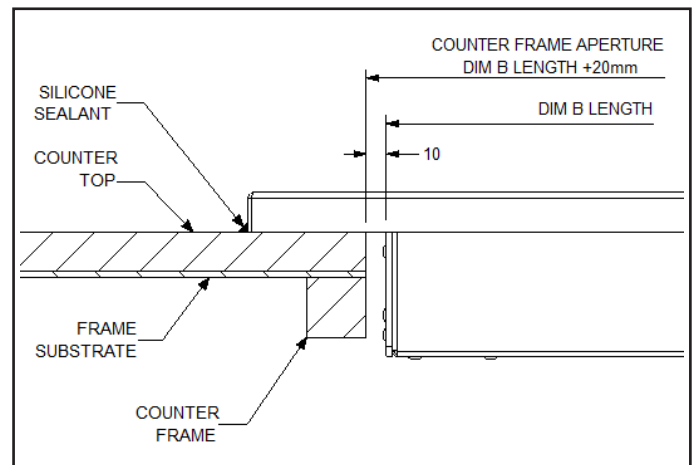
A support frame bar aperture of: Dim "B" length plus 20mm.

**Figure 2.2.** Diagram showing Aperture sizes for a Frost Top Installed surface mounted,

**Note:** Only one side is shown for clarity, the opposite side is a mirror image. Information on the model number for the Frost Top being installed is on the appliance data label.

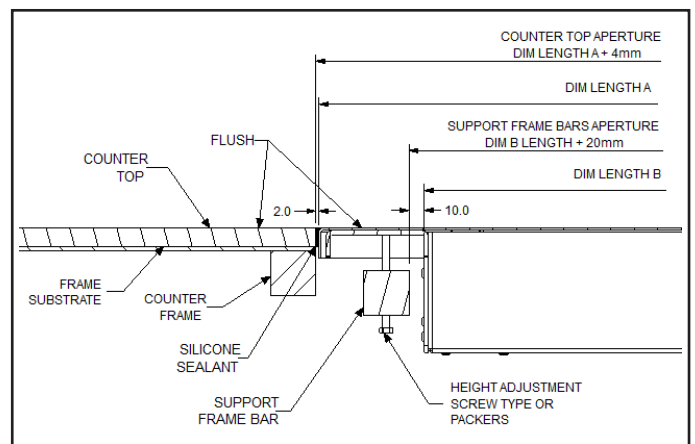
Position the Frost Top sufficient distance from any edge so to avoid the counter top cracking. It is common practice using some counter top materials to make the counter top in sections around the aperture.

- The frame of the counter may be constructed in either timber or metal box section with a substrate if required of either MDF (similar) or sheet steel.
- The support frame bars (2 off) can be made of timber, metal box section or metal angle and span front to back across the counter at a height that takes into account the counter top thickness, the thickness of the Frost Top and any adjustment required.
- The height adjusters can be parallel thread screws positioned in the corners or packers (taking into account that the underside of the frost top in the corners is open as it is made from sheet stainless steel as detailed in **Figure 2.1**).
- The frost top must be installed with a minimum distance of 50mm between the base of the unit and the floor.
- With reference to **Section 3.1** for straight through venting or section 3.2 for rear venting, cut out the air inlet, air outlet vent holes and control box switch using the top side and center line of the Frost Top as a reference.
- Install in a suitable position a single gang electrical socket on the inside of the counter for the unit to plug into.



**Figure 2.2 - Diagram showing aperture sizes for a Frost Top Installed surface mounted.**

**Note** only one side is shown for clarity, the opposite side is a mirror image



**Figure 2.3 - Diagram showing aperture sizes for a Frost Top installed under the counter top.**

**Note** only one side is shown for clarity, the opposite side is a mirror image

- Lift and Position the frost top through the counter aperture using the lifting bracket and lifting bar supplied with the Frost Top, feeding the mains lead and plug through first. Remove the bracket and fixing screws once located into position.
- Position the frost top so that there is a 2mm gap all the way around it to act as a thermal break. Use the height adjustment to position the stainless steel top of the flush with the counter top.
- To prevent lateral/twisting movement addition packers and silicone sealant may be required between the unit and the counter frame or frame support bars.
- Fill the thermal break gap between stainless steel Frost Top and the counter top with silicone sealant. Finish and smooth the sealant so that it is just below the counter top. Note choose a sealant colour that matches the counter top.
- Now go to Section 3.3 and Section 4.1 to finish installing the air outlet ducting and perform the commissioning setup

## 2.5. FROST TOP - INSTALLED UNDER COUNTER TOP:

### Note on frosting under counter area

Victor recommend that the counter section above the Frost Top is the same size as the stainless steel Frost top "Dim "A" Length and Width (see Table 2.1), and is kept as thin as possible, ideally 10 to 12mm but no greater than 20mm.

It is possible to make the counter top slightly bigger than the stainless steel top giving an overhang, but the overhang should be no greater than 30mm (60mm greater than Dim. "A" length and width). All other aperture dimensions should be recalculated taking this overhang into account. The underneath section of the counter overhang should have a suitable thermal insulating material attached to it such as adhesive backed foam to prevent condensation problems. The cooling effect though will be reduced above the overhang.

Some counter top materials have a substrate bounded to the back of them. **This must be removed** from the section that will go over the frost top or it will act as a thermal insulator. The counter top material must be non-porous and have a thermal conductivity greater than 2.5. Some materials such as marble are not suitable for under counter installation. If you are unsure about your counter top material suitability please contact Victor for more information.

Material tested and know to be suitable are: Granite, Hanex and Silstone

To install the Frost Top under the counter top follow the procedure below after first taking into account the positioning criteria give in Section 2.1.

- With reference to Figure 2.4, Section 2.2 and aperture dimension in Table 2.1 under the heading: "Installed under counter top"

construct a counter that has:

A counter frame aperture of: Dim "A" length plus 20mm by Dim "A" width plus 20mm.

A counter top aperture of: Dim "A" length plus 4mm by Dim "A" width plus 4mm.

A support frame bar aperture of: Dim "B" length plus 20mm.

Information on the model number for the Frost Top being installed is on the appliance data label.

Position the Frost Top sufficient distance from any edge so to avoid the counter top cracking. It is common practice using some counter top materials to make the counter top in sections around the aperture.

- The frame of the counter may be constructed in either timber or metal box section with a substrate if required of either MDF (similar) or sheet steel.
- The support frame bars (2 off) can be made of timber, metal box section or metal angle and span front to back across the counter at a height that takes into account the counter top thickness, the thickness of the Frost Top and any adjustment required.
- The height adjusters can be parallel thread screws positioned in the corners or packers (taking into account that the underside of the frost top in the corners is open as it is made from sheet stainless steel as detailed in Figure 2.1).
- The frost top must be installed with a minimum distance of 50mm between the base of the unit and the floor.
- With reference to section 3.1 for straight through venting or section 3.2 for rear venting, cut out the air inlet, air outlet vent holes and control box switch using the top side and center line of the Frost Top as a reference.
- Install in a suitable position a single gang electrical socket on the inside of the counter for the unit to plug into.

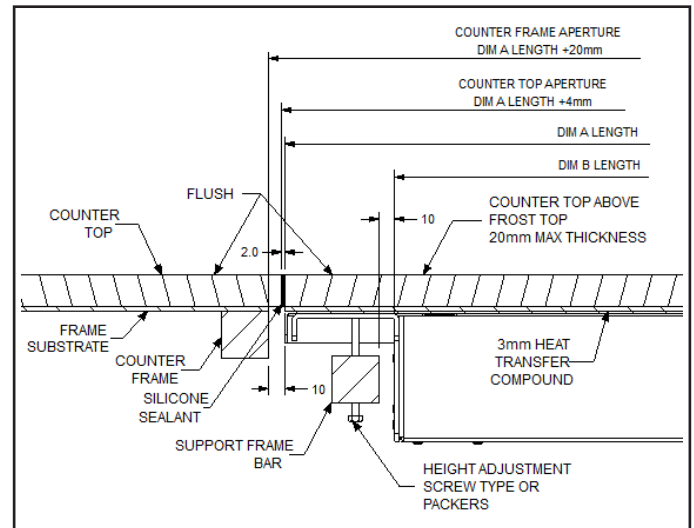


Figure 2.4 - Diagram showing aperture sizes for a Frost Top installed under the counter top.

Note: only one side is shown for clarity, the opposite side is a mirror image

- Apply a 3 to 4mm layer of heat transfer compound to the stainless steel top using a 2mm comb. Lower the section of counter top that goes over the frost top onto the layer of heat transfer compound. Give the top a few twists to bed it onto place. Square the counter top up and clean off any excessive compound.
- Lift and Position the frost top through the counter aperture using the lifting bracket and lifting bar supplied with the Frost Top, feeding the mains lead and plug through first. Remove the bracket and fixing screws once located into position.
- Position the frost top so that there is a 2mm gap all the way around it to act as a thermal break.
- Use the height adjustment to position the Frost Top so that the two sections of counter top are flush with each other.
- To prevent lateral/twisting movement additional packers and silicone sealant may be required between the unit and the counter frame or frame support bars.
- Fill the thermal break gap between the stainless steel Frost Top and the counter top with silicone sealant. Finish and smooth the sealant so that it is just below the counter top. **Note: choose a sealant colour that matches the counter top.**
- Now go to **Section 3.3** and **Section 4.1** to finish installing the air outlet ducting and perform the commissioning setup.

### 3. INSTALLING THE VENTING

#### 3.1. STRAIGHT THROUGH VENTING

The straight through venting option is for the following models:

WDRCC2, WDRCC3, WDRCC4 & WDRCC5

Using the centre of the stainless top as the reference point manufacture or cut into the counter frame/carcass two rectangular apertures to the dimensions and positions given in **Figure 3.1** and **Figure 3.2** for the air inlet and discharge air for the condenser and one aperture for the on/off switch.

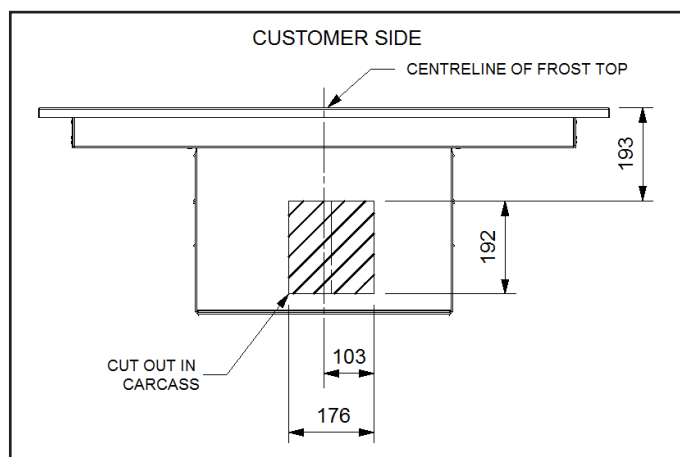


Figure 3.1 - Diagram showing the cut out position for the fitting the air inlet grill (GRL205CS) on the operator side of the Frost top for Straight Through venting.

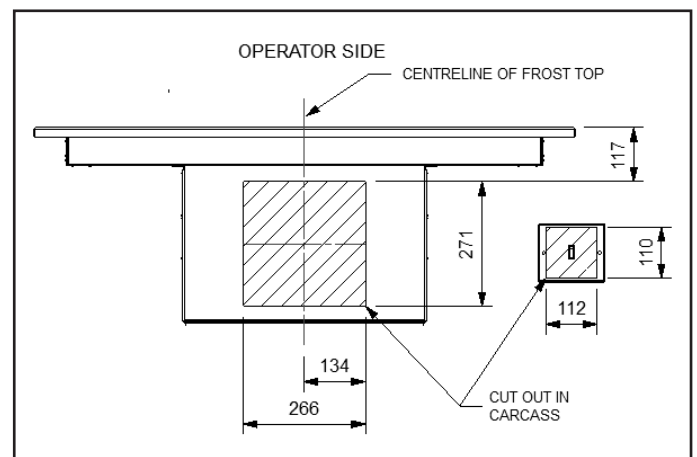


Figure 3.2 - Diagram showing the cut out position for the fitting of the switch box and the air discharge grill (GRL204CS) on the operator side of the Frost top for Straight Through venting

#### 3.2. REAR VENTING

The rear venting option is for the following models:

WDRCC2D, WDRCC3D, WDRCC4D & WDRCC5D

Using the centre of the stainless top as the reference point manufacture or cut into the counter frame/carcass two rectangular apertures to the dimensions and positions given in Figure 3-3 for the air inlet and discharge air for the condenser and one aperture for the on/off switch.

- The air cover on the air inlet should be easily removable to allow access in to clean the condenser. The discharge air outlet must be securely fastened and only removable with the use of tools as there are potential live electrical parts behind this panel.

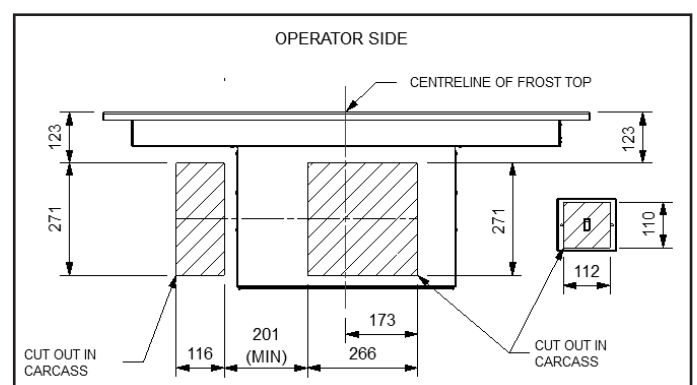


Figure 3.3 - Diagram showing the cut out position for the fitting of the switch box and the air inlet grill (GRL203CS) and air outlet grill (GRL204CS) on the operator side of the Frost top for rear venting.

### 3.3. DISCHARGE AIR VENT DUCT

Once the frost top is installed in the counter the adjustable air discharge duct that forms part of the bottom structure of the frost top needs to be pulled out to make a seal against the inside of the counter. As shown in **Figure 3.4**. Use 2 self-tappers per side screwed from the inside to the outside to hold the duct in the positions indicated.

- The Frost Top is supplied with 2 standard grill covers but if custom panels are to be designed and fitted then they must comply with the minimum distance between the inlet and discharge outlet dimensions shown in **Figure 3.3** to avoid warm discharged air being recirculated. The open area of the grills must also comply with the minimum open area of 60% based on 20mm wide slots. The standard venting grill specifications are given in **Section 3.4**.

#### Note:

if you reduce the hole diameter/slot width from 20mm then the open area percentage needs to increase or the air inlet / air outlet aperture sizes need to increase to compensate for any pressure drops that will occur. A smaller hole/slot causes more drag on the air flow hence the air movement through the unit needed for cooling is reduced. The air inlet and outlet apertures must be increased by 20% whilst the minimum distance between the **edges** of the inlet and outlet apertures must not decrease to avoid the discharged warm air out to counter inside being recirculated. The minimum slot width is 10mm, any less than this may result in the refrigeration system not working. Alternative grill arrangements can be found in the Victor Synergy technical manual under the heading **Ventilation Grills**.

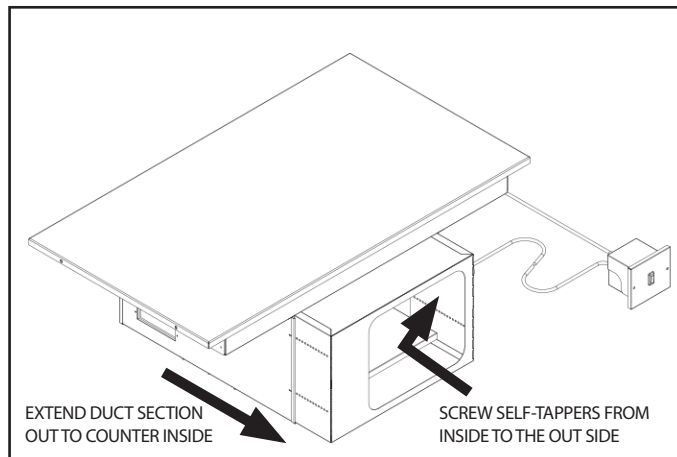
- The air cover on the air inlet should be easily removable to allow access to clean the condenser. The discharge air outlet must be securely fastened and only removable with the use of tools as there are potential live electrical parts behind this panel.
- Once the frost top is installed in the counter the adjustable air discharge duct that forms part of the bottom structure of the frost top needs to be pulled out to make a seal against the inside of the counter. As shown in Figure 3-4. Use 2 self-tappers per side screwed from the inside to the outside to hold the duct in the positions indicated.

**Important:** On deep counters it may also be necessary to construct an air duct extension if the Frost Top discharge duct does not extend out to the counter sides, likewise an air inlet duct may be necessary to ensure sufficient ambient air is drawn onto the condenser.

### 3.4. VENTING GRILL SPECIFICATION

Venting Specification					
Frost Top Model	Venting Top	Inlet Aperture W x H	Outlet Aperture W x H	Inlet Standard Grill	Outlet Standard Grill
WDRCC2/WDRCC3 WDRCC4/WDRCC5	Straight Through	176 x 192	266 x 271	GRL205CS Must be removable for cleaning	GRL204CS Must be fixed
WDRCC2D/WDRCC3D WDRCC4D/WDRCC5D	Rear Venting	116 x 271	266 x 271	GRL203CS Must be removable for cleaning	GRL204CS Must be fixed

Grill Open Area Specification			
Vent Model Number	Vent Open Area Dimensions W x H	Vent Open Area	Hole Slot Diameter
Inlet Grill GRL203CS	115 x 270	60%	20mm
Inlet Grill GRL205CS	175 x 191	60%	8.3mm
Outlet/Discharge Grill GRL204CS	265 x 270	60%	20mm



**Figure 3.3 - Diagram showing the cut out position for the fitting of the switch box and the air inlet grill (GRL203CS) and air outlet grill (GRL204CS) on the operator side of the Frost top for rear venting.**



## 4. USE AND BEST PERFORMANCE

### 4.1. COMMISSIONING SETUP OF THE FROST TOP

Once the installation is complete, and before the rear air outlet/discharge grill is securely fixed, the Frost Top needs to be set up. Adjust the temperature control knob as shown in **Figure 4-1** to suit the installation type and the environment in which it is installed. The temperature control knob adjusts the refrigerant suction temperature and is located on the right hand side and accessed from the air outlet/discharge duct.

- The control knob is marked +30 to -30 but is typically adjusted between 0 to -15 depending on installation environment and whether the Frost Top is installed surface mounted, flush or under counter.
- Starting at 0°C (at 12 o'clock position) run the Frost Top for 1 hour. Observe the frost/ice build-up on the surface of the Frost Top. The Frost Top operates with a surface temperature of -1°C to -5°C in ambient temperatures of up to 25°C with a relative humidity of 60% in a central zone that is directly above the refrigeration coils where frost/ice forms. There may be a band 100mm to 200mm around this central zone that is above the freezing point (0°C) of water and hence will not frost/ice.
- If no frosting /ice is formed decrease the temperature in -2.5°C to -5°C steps, waiting at least 30 minutes before each adjustment until frost/ice is formed in the central zone as defined previously.
- Now time the compressor "On" run time. This should be at least 10 minutes. If less than 10 minutes decrease the set temperature again in sets of -2.5°C until the "On" run time is greater than 10 minute. If Installed under counter in an environment at the maximum environmental operational conditions, see **Section 8**, the compressor may running continuously.
- Once set up and running correctly securely fasten the Outlet/discharge grill in place so that it cannot be removed without the use of a tool.

### 4.2. OPERATOR USE OF THE FROST TOP

**Caution: Operator:**

This appliance must only be operated by suitably trained or qualified persons aged 16 years and above who have read and understood this manual. An operator is defined as the person who is responsible for switching the appliance on, adjusting the temperature and its safe use.

Children shall not play with the appliance.

**Operation:**

The Frost Top operates with a surface temperature of -1°C to -5°C in ambient temperatures of up to 25°C with a relative humidity of 60% in a central zone that is directly above the refrigeration coils. In this zone, water condenses out of the atmosphere and forms frost/ice. There may be a band 100mm to 200mm around this central zone that is above the freezing point (0°C) of water and hence will not frost/ice but instead condenses water out of the atmosphere, this is normal. This is particularly noticeable when the frost top is Installed Under Counter Top (reference **Section 2.5**). At particularly humid times the condensed water may need to be dried away.

**Important:**

Food produce should be chilled before being placed on the Frost Top.

**Note: the refrigeration system is not designed to chill food, but is designed to display food before serving and slow the rate at which it warms back up to the ambient temperature.**

The refrigeration system is operated by a green on / off switch marked 'Refrigeration', which will illuminate when the refrigeration is switched on. This type of refrigeration is by contact with the base of food or containers holding the food.

To obtain the best performance, the following procedure is suggested:

- Switch on the refrigeration system via the switch located on the control panel.
- Depending on the ambient temperature, allow the Frost Top surface approximately 30 to 45 minutes to Frost/Ice over in the central zone. The surface coverage and Frost/Ice thickness will depend on the length of time the Frost Top is operated, the ambient temperature and RH on any given day.
- Load the Frost Top surface as required, monitor the product temperature whilst on display and remove from display should it become too warm. Only re-chill and display products that are safe to do so. Food produce should not be stacked but placed to give a good surface contact to benefit from the Frost Top cooling. See Section 9 for maximum loading information.
- Note:** There is no customer adjustment on temperature on this model. The temperature is adjusted and preset at the time of installation to give an operating surface temperature as stated above.

**Caution: Certain products, such as carbonated drinks, can freeze causing the can to split open releasing the contents in a spray if stored on the Frost Top for long periods of time. This is caused by the compressed gasses expanding and contracting within the container.**

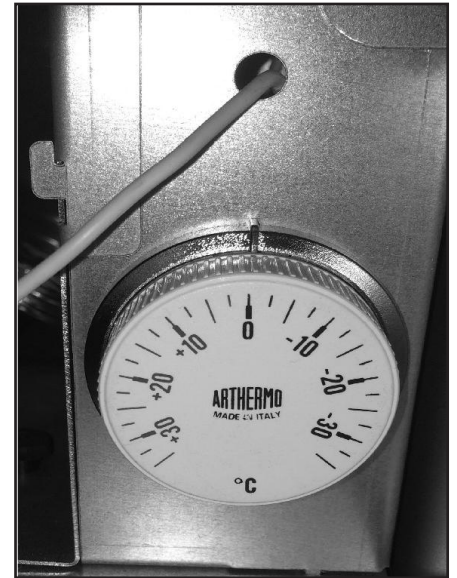


Figure 4.1 - Refrigerant suction temperature adjustment knob.



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## 5. CLEANING

**Caution: child safety**

*Cleaning and user maintenance shall not be made by children.*

**Warning: do not jet wash or steam clean**

*This the appliance must not be cleaned with a jet wash or steam cleaner.*

**Warning: switch off and unplug**

*The unit must be switched off and unplugged from the electrical supply before cleaning.*

Stainless steel surfaces will give you many years of trouble-free use as long as you follow a few simple rules. If it appears to mark do not worry, it is usually not the steel but something deposited on it which has stained.

**Wash all surfaces before use:**

You should use a damp cloth and a mild detergent or soap, or similar cleaner. Wipe over with a cloth, rinsed well with clean water, to remove any residue and dry the surfaces with a soft cloth. Clean regularly when in use. Do use soft cloths, nylon or bristle brushes.

**Do not use:**

Metal scrapers, wire brushes or wire wool pads as they can scratch the steel. Do take care when handling sharp objects as they can scratch the surface of the stainless steel. Any scratches on stainless steel will blend together over a period of time and become less noticeable with age. There is no detriment to the corrosion resistance or general performance of the material.

**Do not use:**

Bleach for cleaning purposes (remember dishwasher powders, sterilising agents and similar products all contain chlorides). If used, black pit marks, large brown patches or other such effects may appear and permanent damage may be caused. If used inadvertently rinse immediately with clean water.

**Do not splash the unit with bleach when cleaning around the counter:**

If you do, rinse the surface immediately with clean water thoroughly.

**Do not allow:**

Corrosive foodstuffs such as fruit juices, vinegar, mustards, pickles, mayonnaise, etc., to remain on stainless steel for long periods. Wash and rinse away.

**Do not leave:**

Steel objects or utensils standing on the stainless steel surfaces for long periods. They can rust and leave marks. After cleaning with detergent always remove residues with a wet cloth and wipe dry, if left they can have an etching effect on the surface.

*Correctly applied the above instructions will result in continuous good looks!*

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## 6. MAINTENANCE

**Trained Person**

*Maintenance shall be carried out by a trained competent person who is wearing the appropriate PPE (personal protect equipment).*

**CAUTION: Child Safety**

*Cleaning and user maintenance shall not be made by children.*

**WARNING: Switch off and unplug**

*You must switch off and disconnect the appliance from the electrical mains supply before carrying out maintenance or removing any covers or components which have been fastened using screws.*

### 6.1. CLEANING THE CONDENSER

The refrigeration system **will** pick up dust from the air which builds up on fins of the condenser, causing it to lose effectiveness. It is important to inspect, and clean, the condenser as necessary.

**Note:**

The frequency of checking and cleaning the condenser varies between insulations and depends on the positioning of the unit, amount of time the unit is run during a day and the number of people walking past the unit. In insulations where the units are on for 24 hours a day and have a high volume of people passing this cleaning may be once a week, therefore it is advisable to check weekly when first installed to determine the appropriate inspection/cleaning frequency. The maximum recommended time between inspections/cleaning is 3 months.

**Warning: The condenser is made up of closely packed metal fins than might present a cut hazard, the use of strong industrial protective gloves are recommended.**

**Access:**

To access the condenser for cleaning remove the front grill, this is only clipped in place and can be easily removed by getting your fingers behind the front edges and pulling forward see Figure 6-1.

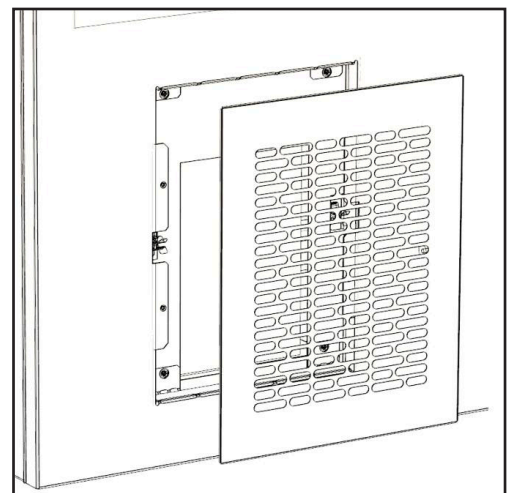


Figure 6.1 - Air vent removal for cleaning - on custom counters the design of the grill will vary from the one illustrated

### **Cleaning:**

To clean the condenser use a soft brush, a small paint brush is ideal and a vacuum cleaner. Care must be taken not to damage the condenser fins, the dust needs to be removed gently, do not use force or stabbing motions with the brush.

### **Warning:**

Failure to clean the condenser regularly will result in it not cooling the refrigerant in the appliance, the refrigerant will over heat and activate the high pressure cut out switching the refrigeration system off. The cut out is self-resetting, but it will repeatedly activate if the condenser is not cleaned. If the appliance appears to be working but is not cooling correctly check the condenser.

**Damage** caused by poor maintenance and cleaning of the condenser is not covered by your Victor warranty, see section 6 on Warranty. Call out of an engineer under warranty that proves to be blocked condenser due to poor cleaning will be charged for.

### **Yearly Safety Check**

You should have your appliance inspected and tested for electrical safety at least once a year as required by the Electricity at Work Regulations.

### **Electrical Mains Lead**

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard. ***Do not use if the supply cord is damaged.***

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## **7. WARRANTY**

As a manufacturer of catering equipment, Victor Manufacturing Ltd offers warranty on all goods manufactured by the company and supplied by its United Kingdom Distributors.

Victor Manufacturing Ltd is renowned for its reliability and Victor Manufacturing Ltd provides on-site warranty in case of failure included in the purchase price, which covers the costs of spare parts and labour on your Victor Manufacturing Ltd goods from the date of invoice for a period of 24 months.

The Victor Manufacturing Ltd warranty does not affect any legal rights you have against the person who supplied your Victor Manufacturing Ltd goods or any other legal right against Victor Manufacturing Ltd under the laws of the United Kingdom - it is an addition to those rights.

All goods sold by Victor Manufacturing Ltd are subject to the Company's standard conditions of sale, a copy of which is available upon request.

Where the goods and components supplied by Victor Manufacturing Ltd are of the company's design and manufacture, Victor Manufacturing Ltd will make good any defects in those goods provided Victor Manufacturing Ltd liability will be limited to the following:

**It is the purchaser's responsibility to prove that the unit is under warranty, e.g. receipt of purchase, invoice number, serial number, etc.**

**Damaged in transit claims must be reported in writing to the company within 3 days of receipt for your claim to be validated. Damaged goods will not be replaced or repaired if they have been used.**

**Victor Manufacturing Ltd must authorise all warranty repairs prior to the commencement of work. Work carried out on goods prior to authorisation will not be covered nor will any resultant damage.**

**All warranty will be immediately invalidated if in the reasonable opinion of Victor Manufacturing Ltd, unauthorised repairs or modifications have been made to the goods, in the case of accident, misuse, or damage caused by improper installation and altered or missing serial numbers. Victor Manufacturing Ltd will not provide warranty repairs if in our opinion the problem resulted from externally caused damage, use outside the goods specification, faults caused by inexperienced or non-approved repairers. All warranty will be immediately invalidated if installation of equipment is not in accordance with Victor Manufacturing Ltd installation instructions supplied.**

**Customer adjustments explained in the operating manual are not covered by Victor Manufacturing Ltd on-site warranty. Assistance can be received by contacting the warranty desk.**

**The liability of Victor Manufacturing Ltd and its appointed engineers are limited to the cost of repairs (parts and labour only) of the unit under warranty. Loss of food or other damages caused by faulty goods are not covered by the warranty.**

**No fault found warranty calls and installation errors are not covered under Victor Manufacturing Ltd warranty and will result in a charge being made for the call-out and on-site labour for our appointed engineer. The Victor Manufacturing Ltd warranty does not cover the replacement of used consumables, or parts that require period adjustment or lubrication, unless the part is faulty.**

**You must have evidence that routine maintenance has been carried out by a qualified engineer in accordance with the instruction manual. This is of particular importance with refrigerated and gas fuelled appliances. Work made necessary by lack of routine maintenance or cleaning is not covered by this warranty and will be chargeable.**

**Victor Manufacturing Ltd parts and labour warranty is valid for the United Kingdom Mainland only. (Parts only all areas outside the United Kingdom Mainland.)**

Some parts are automatically not covered by the Victor Manufacturing Ltd warranty (e.g. panels, glass, lamps, shelves, etc.) Many surface finishes including paint and plastic coated steel can be scratched and damaged if not properly cared for; such damage is not covered by the Victor Manufacturing Ltd warranty.

8. ENVIRONMENTAL CONDITIONS

This appliance contains electrical components and should be used and stored indoors only under the conditions listed in the table below.

Environmental	
Temperature (Storage)	-5°C - 35°C
Relative Humidity (Storage)	Max. 80%
Temperature (Operation)	15°C to 25°C - ISO 23953 2 Climate class 3
Relative Humidity (Operation)	60% Max - ISO 23953 2 Climate class 3)
Altitude	Not exceeding 2000m
Electrical Supply Fluctuation	Voltage fluctuation not exceeding 230Vac. -6% +10%

Warning: If stored in damp, cold or humid conditions ensure the appliance has warmed up to ambient temperature and is free of condensation on all internal electrical components before plugging into to electrical supply and switching on.

9. SPECIFICATION

9.1. FROST TOP SPECIFICATIONS

Appliance Specification						
Model	Weight unloaded (Kg)	Max load (Kg)	Supply voltage Vac (50Hz)	Max. Current (A)	Plug Fuse	Internal Fuse
WDRCC2	50	30	220-240	2.3	13A (TYPE - BS1362)	1A (TYPE - 5 x 20mm IEC60127-2)
WDRCC3	62	45	220-240	2.3		
WDRCC4	80	50	220-240	2.3		
WDRCC5	105	65	220-240	2.4		
WDRCC2D	50	30	220-240	2.3		
WDRCC3D	62	45	20-240	2.3		
WDRCC4D	80	50	220-240	2.3		
WDRCC5D	105	65	220-240	2.4		

Note: Any pressure strength testing/tightness testing must be carried out in accordance with BSEN 378-2.

Refrigeration System Specification					
Model	Refrigerant	Refrigerant Charge (g)	Max Allowable Pressure (PS) (bar)		Pressure switch activation (bar)
			(PS) Low	(PS) High	
WDRCC2	R404a	160	24.8	24.8	27.6 +/- 1.0
WDRCC3	R404a	180	24.8	24.8	27.6 +/- 1.0
WDRCC4	R404a	200	24.8	24.8	27.6 +/- 1.0
WDRCC5	R404a	300	24.8	24.8	27.6 +/- 1.0
WDRCC2D	R404a	160	24.8	24.8	27.6 +/- 1.0
WDRCC3D	R404a	180	24.8	24.8	27.6 +/- 1.0
WDRCC4D	R404a	200	24.8	24.8	27.6 +/- 1.0
WDRCC5D	R404a	300	24.8	24.8	27.6 +/- 1.0

Note: Any pressure strength testing/tightness testing must be carried out in accordance with BSEN 378-2.

## 9.2. PRODUCT DATA LABEL

Understanding Product Number as written on the data label - e.g. WDRCC3D

Model type	6th Code number - Model	7th Code letter - Model Size
5 letter model code	Size	
WDRCC	3	D

### MODEL CODE:

**WDRCC** - Model code for a Synergy Frost Top drop in style without a gantry

**W:** Without gantry,

**D:** Drop-in style,

**R:** Refrigerated appliance

**CC:** Contact Cooled refrigeration system

### 6th Number:

**Model Size 2:** 2 Pan size (contact surface size 660mm x 850mm)

**Model Size 3:** 3 Pan size (contact surface size 660mm x 1177mm)

**Model Size 4:** 4 Pan size (contact surface size 660mm x 1504mm)

**Model Size 5:** 5 Pan size (contact surface size 660mm x 1831mm)

### 7th Letter:

**Vent option type, no 7th letter:** Straight through, front to back vent option

**D:** Rear vent option for use against a wall.

## 10. SPARE PART ORDER CODES

When ordering any spare parts from your distributor always quote the model and serial number. This can be found on the data label affixed close to the mains lead connection point to your product. It is also advisable to make a note of these numbers in the space provided on the front cover of this manual.

The most common spare parts and their order codes are listed in the following tables. If you are unsure of your Victor product model number check your data label and **Section 8** of this manual.

Spares order codes				
	WDRCC2 WDRCC2D	WDRCC3 WDRCC3D	WDRCC4 WDRCC4D	WDRCC5 WDRCC5D
Condensing Set		61-0125	61-0125	
Dryer	61-0180	61-0180	61-0180	61-0180
Capillary Line - 60-0125	6 meters	6 meters	6 meters	6meters
Refrigeration Switch Green	60-0210	60-0210	60-0210	60-0210
Gantry Switch black	24-0026	24-0026	24-0026	24-0026
Thermostat - CC	61-0315	61-0315	61-0315	61-0315
High Pressure Cut-out (HPC)	24-0345	24-0345	24-0345	24-0345
HPC Relay	24-0297	24-0297	24-0297	24-0297
Fuse F1 (1A)	28-0036	28-0036	28-0036	28-0036
Fuse holder	28-0051	28-0051	28-0051	28-0051
Mains lead	23-0150	23-0150	23-0150	23-0150
Mains lead strain relief bush	35-0020	35-0020	35-0020	35-0020
Mains lead terminal block	27-0030	27-0030	27-0030	27-0030C



## EC DECLARATION OF CONFORMITY

In accordance with BS EN ISO 17050 -1:2010

*We of*

Victor Manufacturing Limited  
Prospect Works, Off South Street, Keighley BD21 5AA

*in accordance with the following Directive(s):*

2006/42/EC: Machinery Directive (MD)  
2014/30/EU: Electromagnetic Compatibility Directive (EMC)  
2011/65/EU: Restriction of the use of certain Hazardous Substances (RoHS)

*hereby declare under our sole responsibility that:*

Appliance(s): **Synergy Frost Top**  
Model number(s): **WDRCC2 • WDRCC3 • WDRCC4 • WDRCC5**  
**WDRCC2D • WDRCC3D • WDRCC4D • WDRCC5D**

*is/are in conformity with the applicable requirements of the following documents*

Ref. No.	Title	Edition/date
BS EN 60335-1	Household and similar electrical appliances Safety - Part 1: General requirements	2012 +A11:2014
BS EN 60335-2-89	Part 2-89: Particular requirements for commercial refrigerating appliances with an incorporated or remote refrigerant condensing unit or compressor	2010
BS EN 378-2	Refrigerating systems and heat pumps Safety and environmental requirements Part 2: design, construction, testing, marking and documentation	2008 +A2:2010
BS EN 61000-6-1	Electromagnetic compatibility (EMC). Generic standards. Immunity for residential, commercial and light-industrial environments	2007
BS EN 61000-6-3	Electromagnetic compatibility (EMC). Generic standards. Emission standard for residential, commercial and light-industrial environments	2007 +A1:2011

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the applicable Essential Requirements of the Directives.

The Technical Documentation for the above named machinery is available from Victor Manufacturing Ltd at the above address.

Signed:

Name:

Position:

Location

On:



Certificate No.  
VDC-0004(1)

VDT-0005(1) - EC Declaration of Conformity Pro-forma - Electrically Heated products under MD