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VENTUS V60, V90 & V135 BOTTLE COOLERS

INSTALLATION AND OPERATING MANUAL

PLEASE LEAVE WITH OPERATOR



Ventus V60, V90 and V135 Bottle Coolers

(ECA APPROVED)

Series 1

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A34/041 R7

EC DECLARATION OF CONFORMITY

(Guarantee of Production Quality)

We, Imperial Machine Company Limited of: Unit 1, Abbey Road, Wrexham Industrial Estate, Wrexham, LL13 9RF Declare under our sole responsibility that the following products

Ventus V60, V90 and V135

as described in the attached technical documentation, are in conformity with the protection requirements of the Electromagnetic Compatibility Directive 2004/108/EC and manufactured in accordance with harmonised standards EN 61000-6-1: 2001 Immunity and EN 61000-6-3: 2001 Emissions (plus product specific standards).

They also satisfy the essential health and safety requirements of the Low Voltage Directive 2006/95/EC and are manufactured in accordance with standards BS EN 60335-1 and BS EN 60335-24, and the relevant requirements of the Pressure Equipment Directive 97/23/EC.

Approved by

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Eddy Plumb, Engineering Manager

Date: OCTOBER 2015

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WARRANTY

These bottle coolers are guaranteed by IMC for 2 years from the date of purchase from IMC, or from one of its stockists, dealers or distributors. The guarantee is limited to the replacement of faulty parts or products and excludes any consequential loss or expense incurred by the purchaser. Defects which arise from faulty installation, inadequate maintenance, incorrect use, connection to the wrong electricity supply, or fair wear and tear, are not covered by the guarantee.

The guarantee applies in this form to installations within the United Kingdom. Export units carry 2 years % parts only+warranty.

Please observe these instructions carefully.

DELIVERY

The packaged machine consists of:

V60 Bottle Cooler containing:	
Shelf (Full size)	2
Shelf (base ½ size)	1
Shelf clips	8
Sets of keys	2
V90 Bottle Cooler containing:	
Shelf (Full size)	2
Shelf (base ½ size)	1
Shelf clips	12
Sets of keys	2
V135 Bottle cooler containing:	
Shelf (Full size)	2
Shelf (base ½ size)	1
Shelf clips	16
Sets of keys	3
Instruction Booklet	1

Please notify both the carrier and the supplier **within three days** of receipt if anything is missing or damaged.

Check that the correct machine has been supplied and that the voltage, marked on the rating plate, is suitable for the supply available. The rating plate is located internally on the right hand side of the unit.

SAMPLE RATING LABEL

	MPERIAL MACH _L13 9RF, UNI TEL +44 (0)1	TED		₹ ((E
VENTUS BOTTLE	E COOLER		FREQUENCY(Hz)	50	www.imco.co.uk
TYPE / MODEL	V135	IP RATING IPX1			0.0
VOLTAGE RANGE	230		dB (A)	65	.Ē
PHASE	1		AMPS (MAX)	4.75	M M A
series #	1		CLASS	N	>
R134A	300grms		LIGHT (MAX)	21W	
SI	ERIAL NUMBE	R :	= 7611110001		-

INTRODUCTION

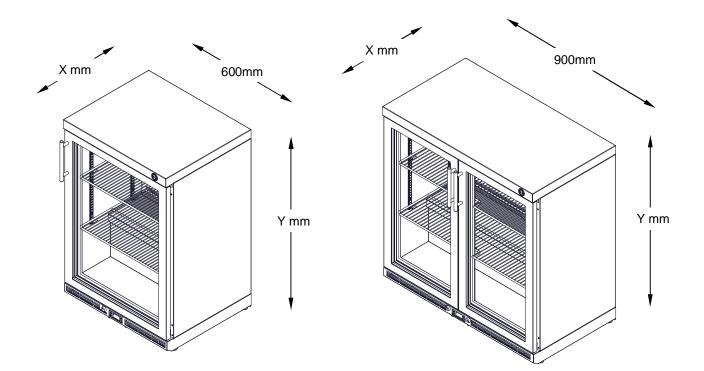
The Ventus V60, V90 and V135 are back-bar or under-bar refrigerators designed for the cooling and storage of beverages.

Bottle Cooler Capacity (330ml Bottles / 150ml mixer cans) V60 (900h x 600w x 500d) std 120 96 V60 (900h x 600w x 450d) V60 (850h x 600w x 500d) 72 / 48 V60 (800h x 600w x 500d) 72 / 48 V90 (900h x 900w x 500d) std 195 V90 (900h x 900w x 450d) 156 V90 (850h x 900w x 500d) 117 / 78 V90 (800h x 900w x 500d) 117 / 78 V135 (900h x 1350w x 500d)std 310 185 / 125 V135 (800h x 1350w x 500d)

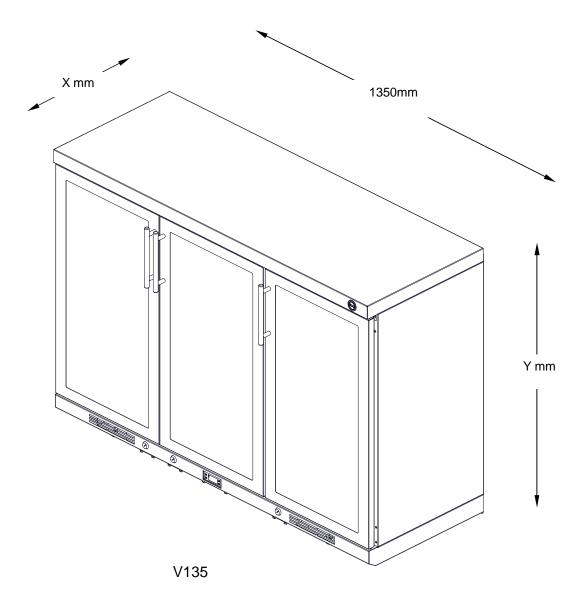
The following quantity of beverage bottles/mixers can be held in each unit:

Ventus Dimensions:

MODEL	X	Y
V60 STANDARD	500	900
V60 SHALLOW	450	900
V60 850 SHORT	500	850
V60 800 SHORT	500	800
V90 STANDARD	500	900
V90 SHALLOW	450	900
V90 850 SHORT	500	850
V90 800 SHORT	500	800
V135 STANDARD	500	900
V135 800 SHORT	500	800



V90



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INSTALLATION

For the Installer

These Instructions contain important information designed to help the user obtain the maximum benefit from their investment in an IMC Ventus Bottle Cooler.

Please read them carefully before starting work, and consult with the supplier in the event of any queries.

Be sure to leave this Instruction Manual with the user after installation of the machine is complete.

Procedure



WARNING

The following table shows the weight and the minimum quantity of people required to lift each unit:

Bottle Cooler	Net Weight	Quantity of People
V60 (all variants)	57.5 kg (max)	2
V90 (all variants)	76.5 kg (max)	4
V135 (all variants)	125 kg (max)	4

Install the unit on a flat and level floor. Ensure a 10 to 20mm clearance at the top and back.

The V135 is supplied on castors to aid installation and cleaning. Do not install the unit close to a heat source such as a radiator or a warm air outlet. Ensure that the unit is standing level by adjusting the feet on the base of the unit.

The unit has an automatic defrost cycle and evaporates all the condensate water without the need for a drainage system.

NOTE!

The castors on the V135 are to aid installation only. The machine is not designed to be used as a mobile unit.

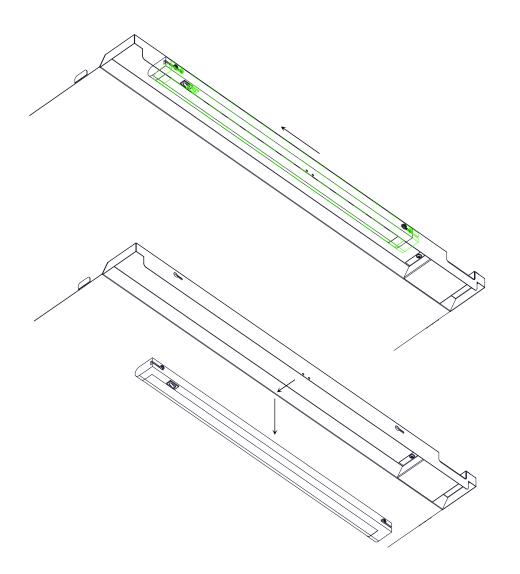
It is important to install the Bottle Cooler on a flat surface. This ensures that the doors are level. Adjustment is provided via the feet, to enable the installer to level the cabinet. Engineer Callouts in order to level Bottle Coolers, will not be covered under warranty.

CHANGING A FLUORESCENT STRIP LIGHT FITTING

The standard cabinet interior is illuminated by a fluorescent fitting located at the front of the top inner panel. The switch is located at the left-hand end of the strip light fitting.

To change the fitting:

- Open the front cabinet door(s)
- Ensure the mains power to the unit has been turned off
- Slide the fitting to the left
- Pull the fitting out from the key-hole slots
- Remove power cable from the right-hand end of the fitting
- Connect the new fitting to the power cable and insert into the key-hole slots
- Slide the fitting to the right until it stops
- Re-connect the mains power and ensure the light illuminates by means of the switch and also can be turned off and on by pressing the Eco button



CHANGING AN LED LIGHT FITTING

One of the many options available for the Ventus range is to have LED lighting fitted. In the unlikely event that the LEDs should fail, or if the customer simply wishes to change to a different colour option, the procedure to enable this is outlined below.

To change the LED fitting:

- Open the front cabinet door(s)
- Ensure the mains power to the unit has been turned off
- Slide the fitting to the left
- Pull the fitting out from the key-hole slots
- Remove power cable from the right-hand end of the fitting
- Connect the new fitting to the power cable and insert into the key-hole slots
- Slide the fitting to the right until it stops
- Re-connect the mains power and ensure the LEDs illuminate and can be turned off and on by pressing the Eco button

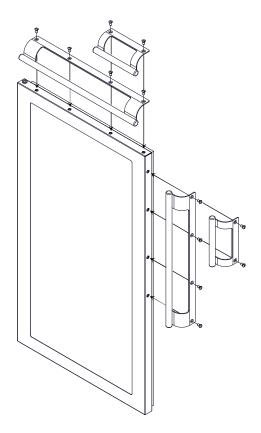
LED fitting	

CHANGING OPTION DOOR HANDLES

The option doors have 2 types of handle which are removed and fitted in the same way. However, the long handle option has 4 screws and the short handle option has 2 screws.

To change or move a handle:

- Open the front cabinet door(s)
- Using a phillips screw driver, unscrew all the screws that secure the handle in place, then remove the handle and retain the screws
- Place new / same handle in desired position (see orientations below)
- Fix the handle back to the door with the same / supplied screws
- New / additional handles are available from IMC



ELECTRICITY SUPPLY CONNECTION

Position the unit in the chosen site. The electricity supply connection should be made to a power outlet socket or isolator mounted on the wall close to the machine. This socket or isolator must be accessible once the machine is installed. Before connecting, check that the voltage shown on the rating label is correct for the electricity supply you have available. If the plug does not fit your sockets or a longer lead is required, changes must be made by an approved electrician.

NOTE: The plug is fitted with a 10amp fuse.

The plug fuse cover must be refitted when changing the fuse. In the event of losing the fuse cover the plug must NOT be used until a replacement fuse cover has been obtained and fitted or the plug replaced.

WARNING: This machine must be earthed

Should the supply cord become damaged then a replacement must be fitted by an approved electrician. The IEE Codes of Practice must be observed.

The wires in the mains lead are coloured in accordance with the following code

Green and yellow	Earth
Blue	Neutral
Brown	Live

COMMISSIONING

Before using a bottle cooler for the first time, the interior should be wiped out with a clean damp cloth.

Allow the machine to stand for 1 hour to allow the refrigerant to settle. Plug in and switch on at the wall socket. There is no separate switch to turn on the machine. The compressor will start running less than one minute after the supply is switched on.

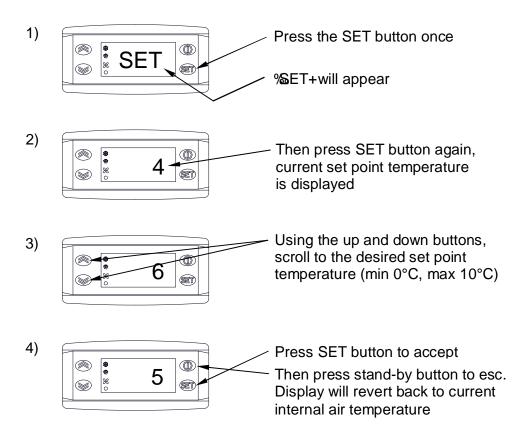
Check that the % co+button is not depressed i.e. the blue logo is illuminated. (See relevant section for the operation of this % co+function)

Check that the light is working. If a fluorescent light is fitted, the switch is located inside the cabinet, on the left hand end of the top inner panel.

Run the unit empty, and check that cold air is being circulated within the cabinet.

CHANGING THE CONTROLLER SET POINT

The electronic temperature controller is factory set to 4°C and will cycle the air temperature between 2°C and 6°C. The set point can be adjusted between 0°C and 10°C by following the button sequence below:



USING YOUR BOTTLE COOLER

This unit is for cooling bottles and cans only. Do not load the cabinet with boxed goods as this prevents air circulation and the goods will not cool down as quickly. While loading ensure that the interior grilles are not obstructed by the bottles.

Do not place hot or warm goods in the cabinet. Only goods at room temperature or less should be placed in the unit, otherwise performance will be affected. It is recommended that the cabinet is stocked after closing at night or first thing in the morning to allow time for the bottles to cool. Ensure that stock is rotated by placing new stock at the back of shelves or in one side of the cabinet to ensure that colder bottles are served first.

Do not leave the doors open when the unit is running as this causes the evaporator to ice up, preventing the unit from operating efficiently.

Ensure that the front grille is always unobstructed.

ECO BUTTON FUNCTION

This button (located in the right hand corner of the worktop) provides an energy saving when depressed i.e. blue logo is not illuminated.

This button switches off the internal light and raises the cabinet current & et+ point by 6° (e.g. if current set point is 4° it will be raised to 10°) while in the depressed state (e.g. over night or during periods when the bar is closed). This will provide an energy saving to the customer providing the door(s) is (are) kept closed during this period. This saving can vary depending on the type and mix of stock within the cabinet, and also the length of time the cabinet is in this economy mode.

When the cabinet is placed in economy mode a %green+symbol in the bottom left hand corner of the controller flashes to indicate it is in ECO mode, and will stop flashing once the cabinet is returned to standard mode.

To return to standard operation the button must be released i.e. blue logo will be illuminated, and the internal light will illuminate. The %et+point of the cabinet will return to its original setting. (cooling the bottles/cans to normal serving temperature)

Standard mode: Button released, logo & internal light illuminated

Eco mode: Button depressed, logo & internal light off . (symbol flashes on controller)

CLEANING

Clean doors and surfaces as required, occasionally remove all merchandise and clean interior surfaces with a clean damp cloth.

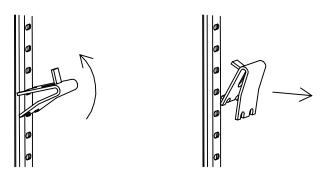
DO NOT USE CLEANING MATERIALS CONTAINING ABRASIVES OR BLEACHES.

In the case of heavy soiling use a mild liquid detergent. The unit can be washed on the inside using bicarbonate of soda to remove stale smells.

CHANGING SHELF POSITION

The shelves in all Ventus units are fully adjustable. To adjust the shelves:

- Remove the shelf.
- Unclip the shelf supports as shown below.



- Hook the shelf supports in the required location.
- Ensure all shelf supports are at the same height for a level shelf. The support strips are numbered to aid positioning.
- Replace the shelf.
- On the shelves in the V135 ensure that the clips are in position on the front covering the join (it should be a tight fit if not squeeze the clip slightly to give a better fit)

Extra shelves are available from IMC.

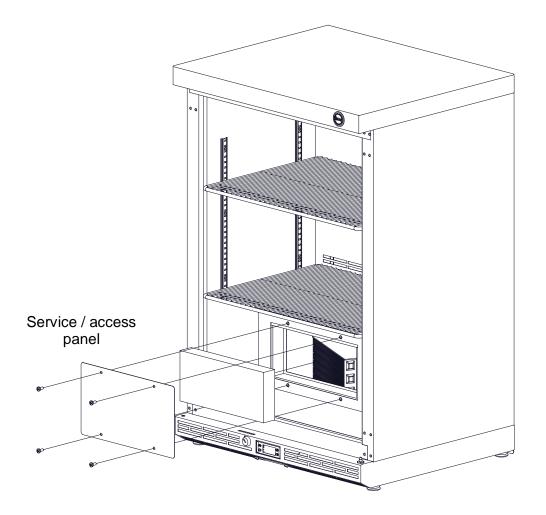
MAINTENANCE



Warning

Never service, repair or troubleshoot a unit unless you are a professional air conditioning / refrigeration service person. Improper servicing can lead to serious injury or death from fire, electric shock or explosion.

Remove the service panel and insulation block inside the cabinet after switching the unit off from the mains supply. Clean the compressor coil with a brush and vacuum cleaner. THIS MUST BE DONE every three months or when dirty (whichever is sooner). Re-fit the insulation and service panel and secure with the original screws. Once the service panel has been re-fitted clean the grille at the bottom front of the cabinet. Reconnect the power supply and check that unit returns to normal operation.



Other than regular cleaning the unit requires no maintenance by the end user. It is recommended that the unit is serviced by an IMC approved engineer at least once a year.

Details of IMC Service Contracts are available on application.

DO'S AND DON'TS

- **Do** Install on a level surface.
- **Do** Ensure plug is accessible with the unit installed.
- **Do** Regularly clean the condenser and compressor.
- **Do** Rotate stock of bottles.
- **Don't** Sit or stand on the unit worktop.
- Don't Load with boxed goods.
- Don't Leave the doors open.
- **Don't** Cover the shelves with any protective materials which may obstruct air circulation through them.
- **Don't** Install unit in direct sunlight.
- **Don't** Block the air inlet grilles.
- **Don't** Store food in the unit.
- Don't Place hot or warm goods in the unit.
- **Don't** Use the unit outside.

ORDERING SPARE PARTS

In the event that spare parts or accessories need to be ordered, please always quote the SERIES AND SERIAL NUMBER of the machine. This is to be found inside the cabinet.

For installations outside the UK please contact your supplier.

For information on IMC spares and service support (if applicable), please call IMC on +44 (0)1978 661155. Alternatively, contact us via email or fax:

IMC Service Desk	Fax: +44 (0)1978 667766 E-mail: service@imco.co.uk
IMC Spares Desk	Fax: +44 (0)1978 667759 E-mail: spares@imco.co.uk

END OF LIFE DISPOSAL

At the end of its useful life the unit must be disposed of correctly and safely, to meet the requirements of EU legislation regarding the recovery of ozone depleting substances. The unit must be sent to a specialist recovery, recycling and disposal site that is licensed for the disposal of refrigerated equipment. Please note that the insulation in the Ventus range does not contain any ozone depleting substances. The refrigerant used in the Ventus V60, V90 and V135 is R134a.

IMC can arrange removal of your redundant bottle coolers, transfer to safe storage and disposal.

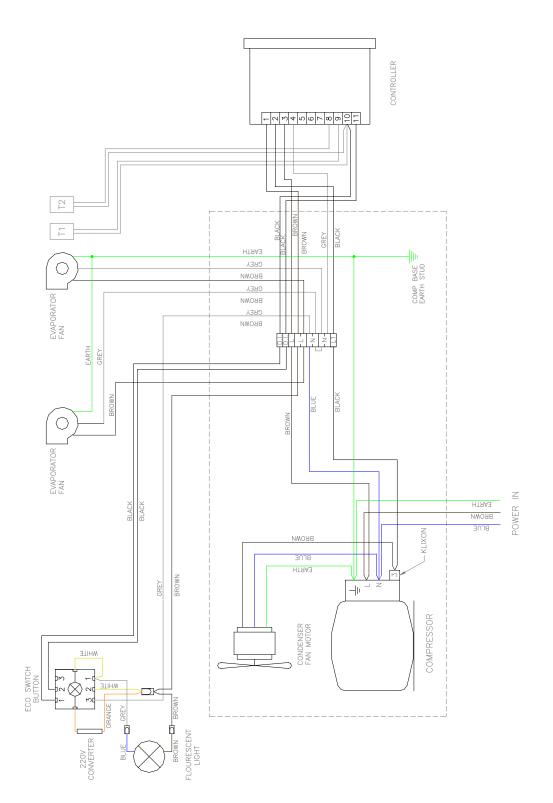
For more information contact IMC sales department. Call +44 (0)1978 661155 Alternatively Email: sales@imco.co.uk

MATERIAL CONTENT

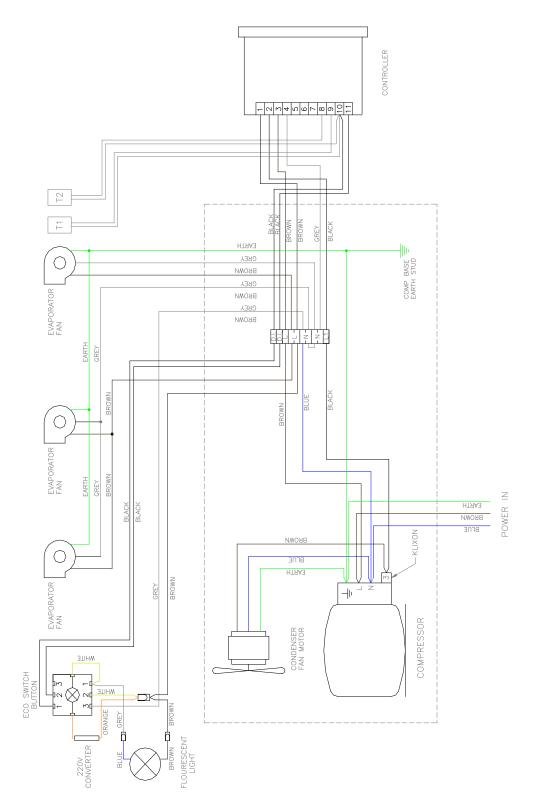
The Ventus units may contain a combination of the following materials;

Metals	Stainless Steel, Mild Steel (inc. Nickel Plated, Chrome
	Plated & Zinc Plated), Aluminium and Copper
Plastics & Rubber	PVC, Nylon, Polypropylene, Polycarbonate, Polyester,
	Acetate, Neoprene Rubber and Silicone Rubber
Insulation	Polystyrene, Polyurethane Foam
Oils & Gases	Ester oil, Refrigerant R134a
Other	Glass, Magnesium Oxide, electronic components.

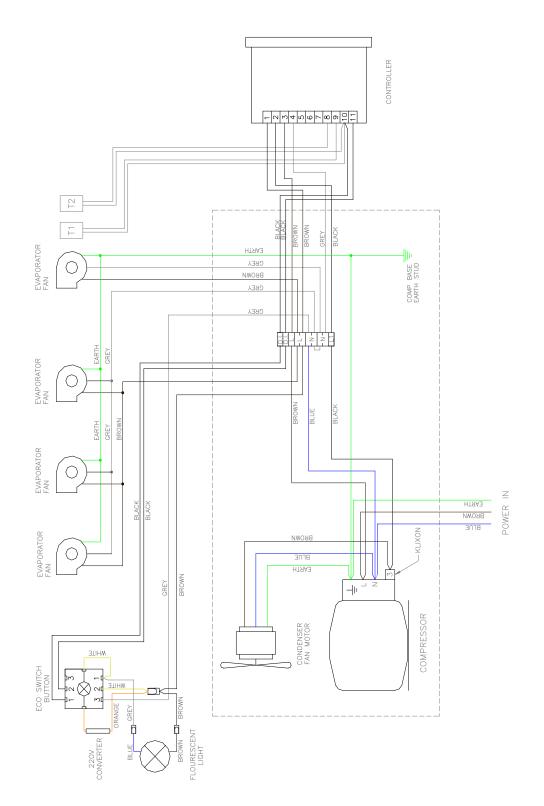
V60 WIRING DIAGRAM

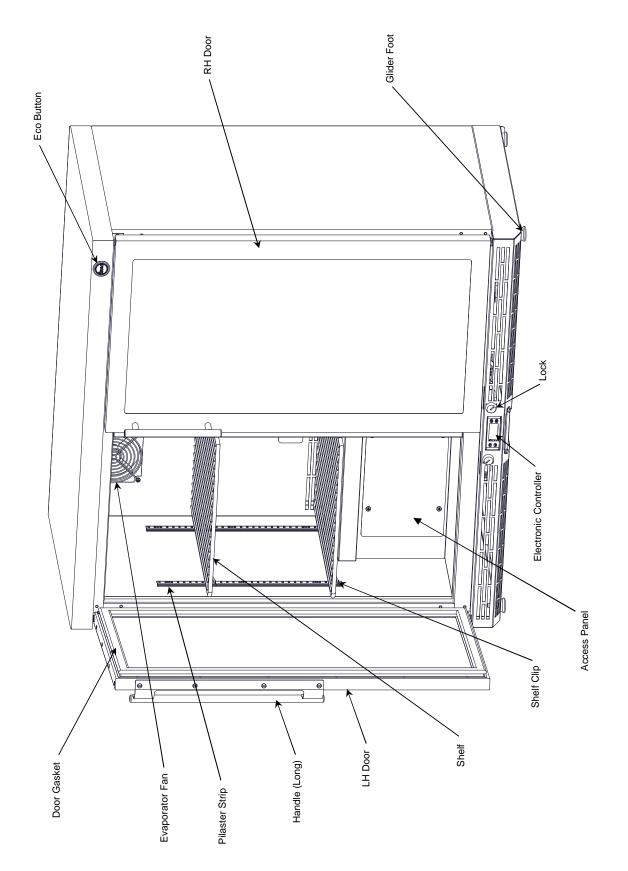


V90 WIRING DIAGRAM



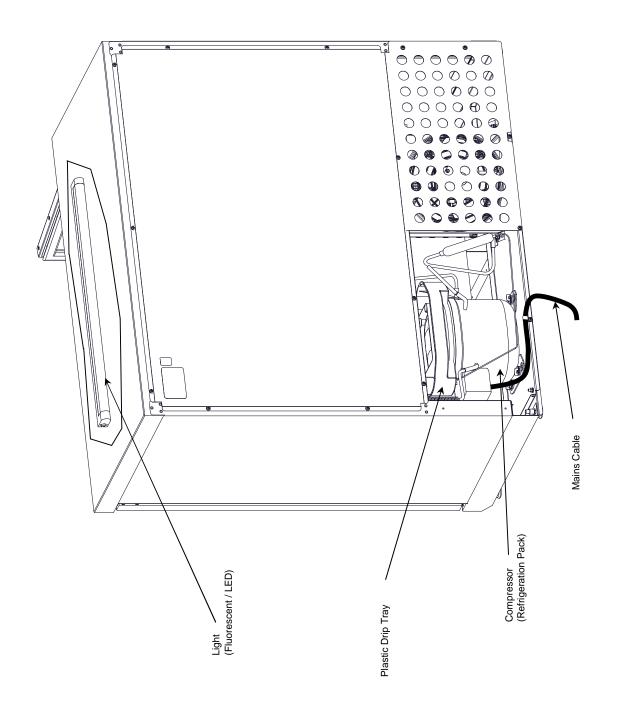
V135 WIRING DIAGRAM





SPARES IDENTIFICATION FRONT

SPARES IDENTIFICATION REAR



SPARE PARTS LIST

Ventus V60 –	Series 1	Ventus V90 – Series 1	
Part No	Description	Part No	Description
A11/278	Door Gasket	A11/279	Door Gasket
A11/283	Door Gasket (850)	A11/285	Door Gasket (850)
A11/284	Door Gasket (800)	A11/286	Door Gasket (800)
A12/073	Pilaster Strip	A12/073	Pilaster Strip
A12/091 Z1	Shelf	A12/092 Z1	Shelf
A12/082	Wine Shelf	A12/051	Wine Shelf
S76/025	Perforated Shelf V60	S76/024	Perforated Shelf V90
A12/094	Shelf Clip (4 per shelf)	A12/094	Shelf Clip (6 per shelf)
A19/027	Glider Foot	A19/027	Glider Foot
A21/011	Lock, clip & keys	A21/011	Lock, clip & keys
E76/221	Access panel	E76/221	Access panel
G30/430	Electronic Controller	G30/430	Electronic Controller
G30/449	Electronic Controller 115V	G30/449	Electronic Controller 115V
G42/020	Plastic Drip Tray	G42/020	Plastic Drip Tray
G60/348 M1	Mains Cable	G60/348 M1	Mains Cable
G60/349	Mains cable EU plug	G60/349	Mains cable EU plug
S76/007	Refrigeration Pack	S76/003	Refrigeration Pack
S76/007-220	Refrigeration Pack 220V-60Hz	S76/003-220	Refrigeration Pack 220V-60Hz
S76/007-115	Refrigeration Pack 115V-60Hz	S76/003-115	Refrigeration Pack 115V-60Hz
J09/054	Condenser/fan motor assembly	J09/046	Condenser/fan motor assembly
		G40/239	Condenser Fan . Motor Only
J09/026	Evaporator	J09/045	Evaporator
J09/007	Service Drier	J09/007	Service Drier
X08/057 (2mtr)	Capillary V60	X08/057 (3mtr)	Capillary V90
G96/049	Evaporator Fan	G96/049	Evaporator Fan
G96/052	Evaporator Fan 115V	G96/052	Evaporator Fan 115V
S76/018	Door Handle (Short)	S76/018	Door Handle (Short)
S76/023	Door Handle (Long)	S76/023	Door Handle (Long)
G50/070	Fluorescent Light 8W T5	G50/071	Fluorescent Light 14W T5
S76/115	LED assembly (white)	S76/116	LED assembly (white)
S76/117	LED assembly (white) 115V	S76/118	LED assembly (white) 115V
S76/119-01	LED assembly (blue)	S76/120-01	LED assembly (blue)
S76/119-02	LED assembly (green)	S76/120-02	LED assembly (green)
S76/119-03	LED assembly (red)	S76/120-03	LED assembly (red)
S76/121-01	LED assembly (blue) 115V	S76/122-01	LED assembly (blue) 115V
S76/121-02	LED assembly (green) 115V	S76/122-02	LED assembly (green) 115V
S76/121-03	LED assembly (red) 115V	S76/122-03	LED assembly (red) 115V

Note: Please contact IMC for Door Spares options

Ventus V135	– Series 1
Part No	Description
A11/279	Door Gasket
A11/284	Door Gasket (800)
A11/204 A12/073	Pilaster Strip
A12/099	Shelf
A12/099	Wine Shelf
	Perforated Shelf LH V135
E76/267	
E76/268	Perforated Shelf RH V135
A12/036	Shelf Clip (6 per shelf)
A19/027	Glider Foot
A21/011	Lock, clip & keys
E76/221	Access panel
G30/430	Electronic Controller
G30/449	Electronic Controller 115V
E77/123	Drip Tray 135
G60/348 M5	Mains Cable
G60/349	Mains cable EU plug
S76/130	Refrigeration Pack
S76/130-220	Refrigeration Pack 220V-60Hz
S76/130-115	Refrigeration Pack 115V-60Hz
J09/046	Condenser/fan motor assembly
G40/239	Condenser Fan . Motor Only
	-
J09/042	Evaporator
J09/007	Service Drier
X08/057 (2mtr)	Capillary V135
G96/049	Evaporator Fan
G96/052	Evaporator Fan 115V
S76/018	Door Handle (Short)
S76/023	Door Handle (Long)
-	
G50/072	Fluorescent Light 21W T5
S76/141	LED assembly (white)
S76/142	LED assembly (white) 115V
S76/143-01	LED assembly (blue)
S76/143-02	LED assembly (green)
S76/143-03	LED assembly (red)
S76/144-01	LED assembly (blue) 115V
S76/144-02 S76/144-03	LED assembly (green) 115V LED assembly (red) 115V

NOTES



ventus

