SUPER ASTRA

PRODUCT MANUAL

SUPER ASTRA

CONTENTS

1. INTRODUCTION

Super Astra is a compact beer cooler ideal for high ambient temperatures up to 43°C and is designed for siting under counter on bar shelves. It is easy to install, maintain and operate and includes the feature of still water recirculation and constant agitation. A number of options are available including a summer/winter switch. Please refer to the Super Astra product data sheet R20 for full details.

2. SPECIFICATION

Refer to the Super Astra product data sheet for full specification.

DIMENSIONS

Height:	255mm
Width:	650mm
Depth:	470mm (including back spacer and product coil tails)
Weight dry:	34kg
Weight packed:	35kg
Weight operational:	47kg

3. INSTALLATION

Please follow these instructions carefully. Only if the beverage cooler is properly installed will trouble free operation and customer satisfaction be achieved.

NOTE – the cooler is fully automatic, therefore the electrical supply must not be interrupted (unless access for maintenance is required), otherwise reduced performance and reliability will occur.

HANDLING AND TRANSPORTATION

Keep the unit in an upright position and do not drag over rough floors or down steps.

On receipt, unpack the unit carefully and inspect for any superficial damage which the unit may have sustained in transit. Record the nature of damage on the Courier's Delivery Note and at the same time inform your supplier.

Once the unit is in position, do not move when filled with water.

INSTALLATION AND OPERATION

1. General

Installation must only be carried out by a suitably trained person and comply with national and local codes for connection to electrical supplies.

It is recommended that the mains electrical supply is protected by an RCCB.

2. Siting

The cooler is designed for indoor use only, in ambients between 5°C and 43°C and should not be exposed to water spillage, spray, steam or high humidity (in excess of 90% rh).

Allow 80mm clearance around the unit to aid air circulation and keep the front of the unit clear to allow an unimpeded fresh air supply to enter the cooler.

Air vents and louvres should never be obstructed or blocked, also access should be possible to the unit lid for ease of service.

Site the cooler on a firm level support, protect from physical damage and do no place items on top. Locate the cooler within 2 metres of an earthed, switched socket of correct rating (indicated on rating plate) which should be accessible for isolation of the equipment. The socket should be installed to current IEE regulations.

Locate the cooler as near to the dispense point as possible to reduce heat pick up by the product after it has left the unit.

3. Installation

The appliance must be earthed.

With the unit unpacked and in position, remove all coil caps.

Ensure all panels are secured in position.

1. Remove the overflow bung from the tube sited on the front of the unit. The overflow position is indicated on the front label.
2. Rotate the filler disc cover, situated on the unit lid, until the hole is aligned with the filler tube, allowing water to be poured into the unit.
   Do not use de-ionized water or add any substance to the water.
   Do not leave hose pipes unattended while filling the water bath as the unit may become flooded.
3. Fill the bath, through the filler funnel, with cool, clean water until the water flows from the overflow.
4. To allow the cooler to operate during installation and form an ice reserve, pump connections (located on the front of the cooler marked FLOW and RETURN) for still water recirculation must be looped together with a pipe. This will prevent water being pumped from the water bath. The cooler can now be switched ON. Time to create an ice reserve is between 2 to 5 hours depending on unit type and ambient temperature.
5. For plumbing connections follow the label instructions sited on the front of the cooler.
   The product supply is connected to the product coil inlets, marked IN.
   The outlets from the product coils, marked OUT, should be connected to dispensing point(s).
   The remaining water recirculation tails should be connected to the python. Initially switch the unit OFF, remove the loop previously fitted and connect the python water recirculation lines to the cooler.
   The other end of the python must have the two python tubes connected to allow water to recirculate from the cooler water bath through the python enabling the product in the python to remain cool.
6. Once the connections are made, the cooler can be switched ON. This will allow the python to prime with water. The cooler must then be switched OFF and the water bath 'topped up' following the procedure indicated earlier.
   When the water has stopped flowing from the overflow, replace the bung and rotate the filler disc until the filler tube is covered.
   Never allow the water pump to run dry – caused by priming a large python with water from the unit. This is to ensure the correct water level is maintained in the cooler.

7. Insulate the cooled product outlet tubes to reduce heat pick up between the cooler and dispense tap.

4. Operation

Super Astra incorporates the following features according to model. Refer to the Super Astra product data sheet for details:–

Still water recirculation

Water is pumped from the water bath to the dispense point to maintain product temperature in the python.

Summer/Winter Waterbath Control (where fitted)

This control is sited inside the unit, accessible by removal of the lid. SUMMER setting will build an icebank, while WINTER maintains a thermostatically controlled bath of cold water only.

4. SERVICE INFORMATION

There are no user serviceable items inside the equipment. Maintenance and repairs must only be carried out by a properly qualified and trained person.

Switch off the mains electrical supply and unplug the equipment if it malfunctions, suffers spillage, or physical damage. Do not switch the unit ‘off’ and ‘on’ within five minutes.

In the event of component failure, SWITCH OFF AND UNPLUG the unit.

Access to:-

The icebank, thermostats, agitator/pump and condenser fan can be made be removing the cooler lid.

The compressor electrics by the removal of the lid and left rear panel.

Pump removal/refitting – undo pump fasteners, allowing removal from lid. Lift from lid rotating the pump assembly to allow attached flow tube to unwind. Remove clip (if fitted) which secures the flow tube to the pump body. Fitting of new pump (fit new clip if required) and rotate pump assembly to take up excess pipe length – as assembly before removal.

Only use Cornelius parts for cooler maintenance.

5. USER MAINTENANCE

Switch off and unplug the unit during maintenance operations.

Do not switch the unit ‘off’ and ‘on’ within five minutes.

Do not attempt to remove any protective covers.

Ensure grilles and condenser fins remain unobstructed and free from particles at all times to ensure reliable and consistent operation. A soft brush or vacuum cleaner may be used for cleaning.

If the cooler becomes noisy – makes a ‘gurgling’ sound, this is due to vortexing in the water bath caused by a low water level and will result in reduced cooling of the beverage. To remedy, follow the procedure below:-

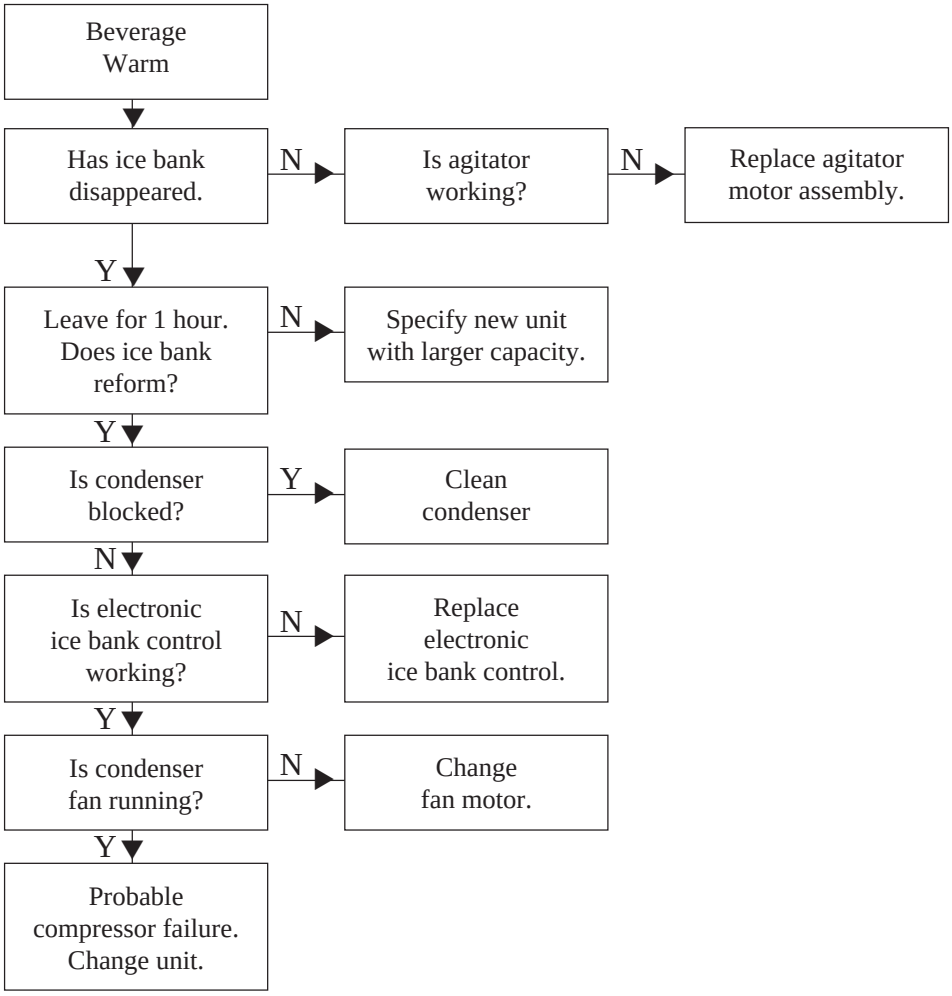
1. Check the python and connections for leaks.
2. If leaks are found call the service engineer.
3. If no leaks are found follow the instructions for filling the water bath outlined in Section 3 – Installation.

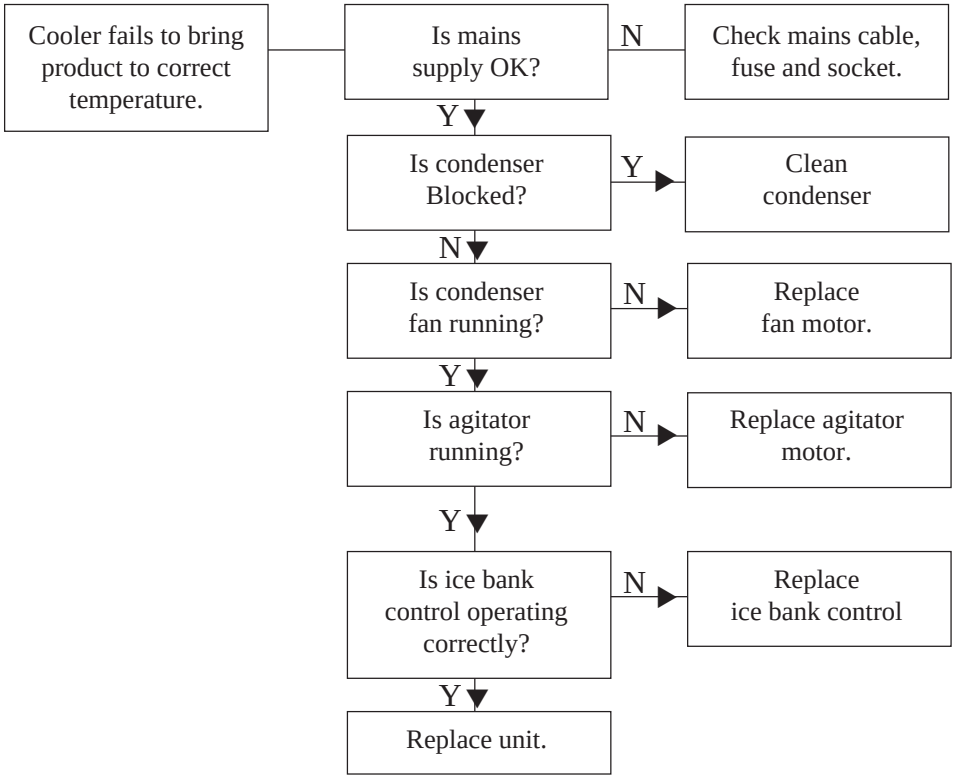
Sanitise the pipelines by flushing with water, followed by a chlorinated alkaline sanitizing agent and finally potable water flush when product tainting is evident or when advised by the equipment installer or beverage supplier. This can be at the same time as the ordinary service lines are cleaned, therefore no dismantling of the cooler is required. It is important that the sanitizing agent manufacturer’s procedure and safety precautions are followed. Under no circumstances should boiling water or steam be used with this unit as it may result in permanent damage to the thermostat and plastic product tubing. The maximum water temperature permissible is 43°C.

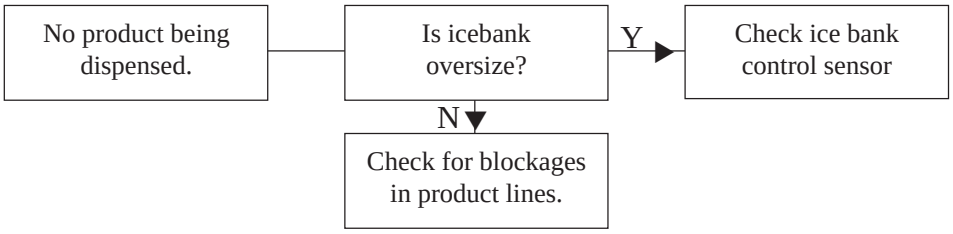
Ensure that objects are not placed on top of the unit and vents or grills are never obstructed as this may affect the unit’s function.

Cornelius recommend periodic testing of electrical equipment, which should be carried out by a competent person.

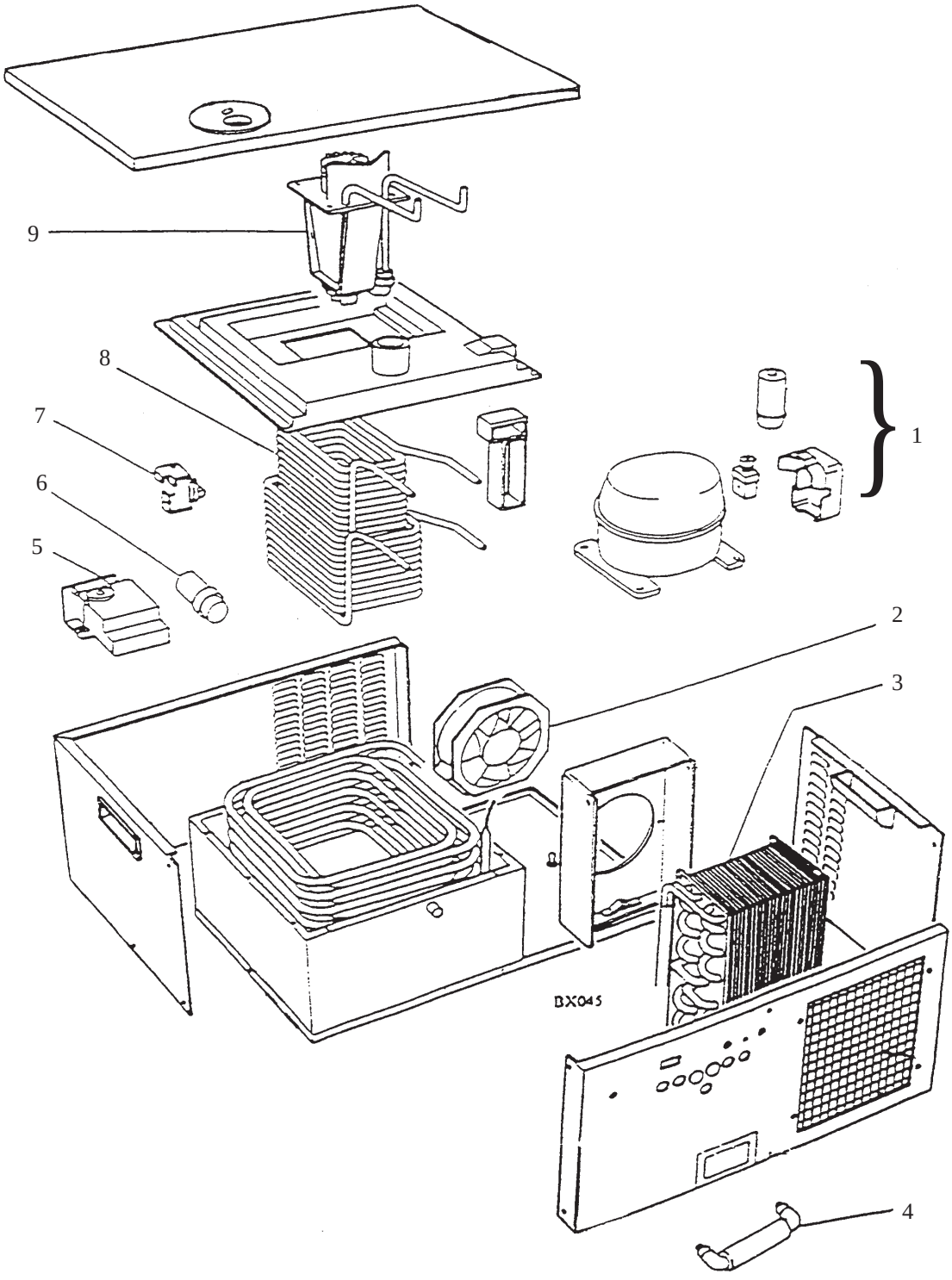
6. FAULT FINDING




Cooler fails to bring product to correct temperature.
Is mains supply OK?
N
Check mains cable, fuse and socket.
Y
Is condenser Blocked?
Y
Clean condenser
N
Is condenser fan running?
N
Replace fan motor.
Y
Is agitator running?
N
Replace agitator motor.
Y
Is ice bank control operating correctly?
N
Replace ice bank control
Y
Replace unit.


No product being dispensed.
Is icebank oversize?
Y
Check ice bank control sensor
N
Check for blockages in product lines.

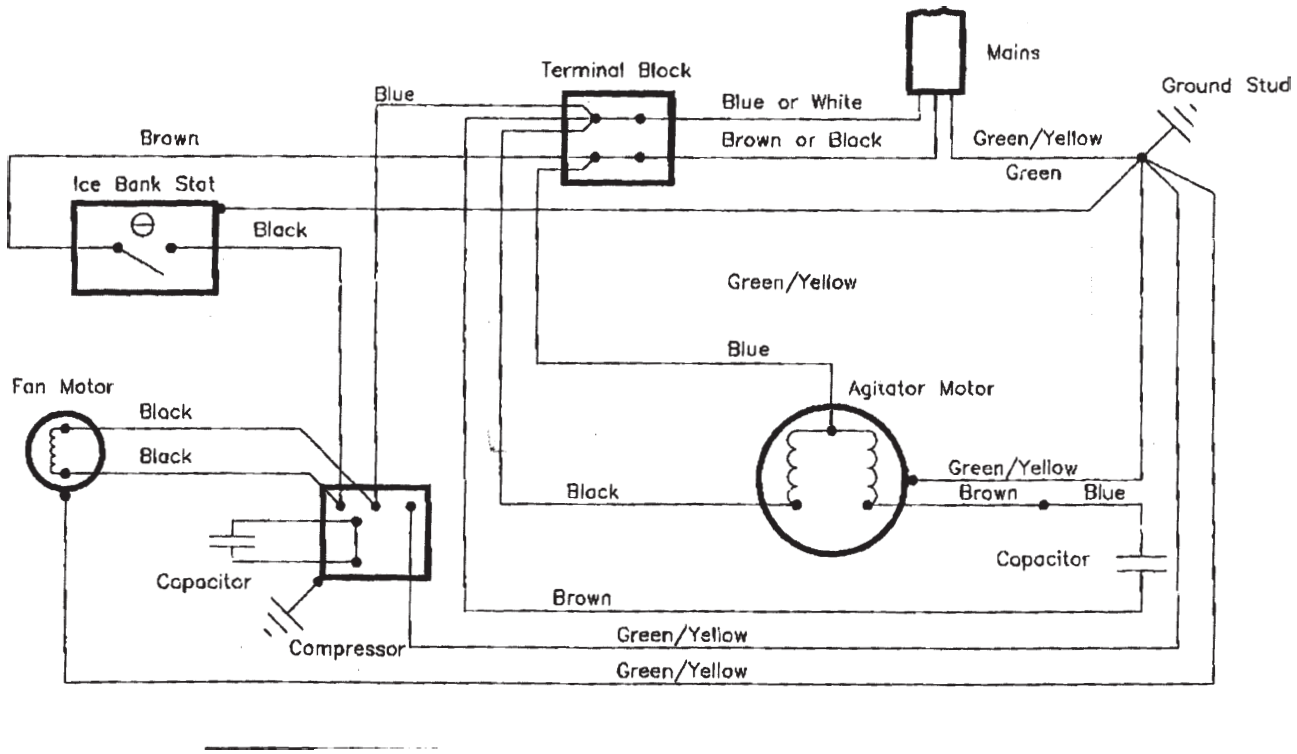
7. EXPLODED VIEW



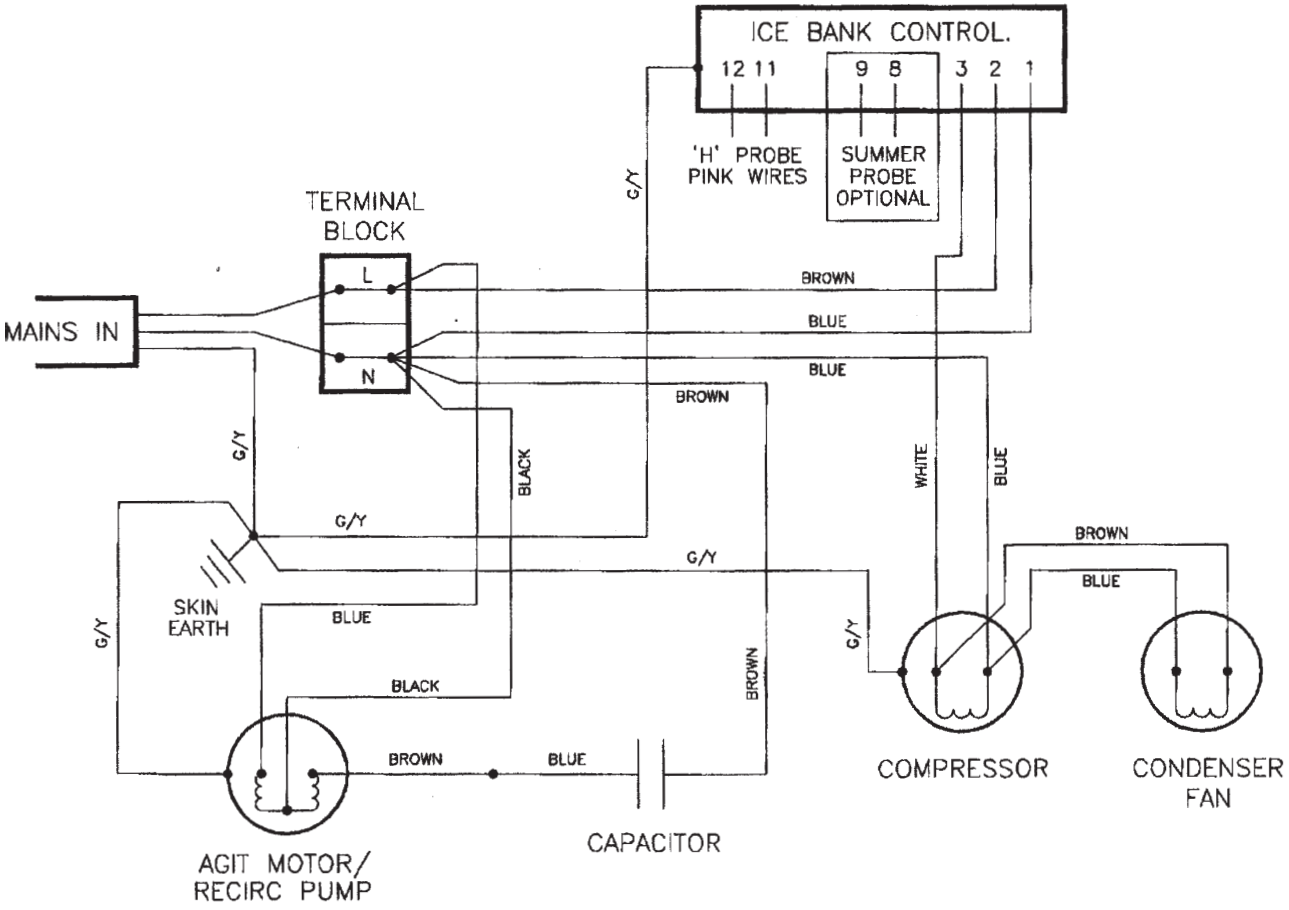
7. PARTS LIST

ITEM No.	PART No.	DESCRIPTION	
1a	44 0000 239	Comp. Set SC15G HST (115V)	
1b	44 0000 208	Comp. Set SC15G HST (240V)	
2a	58 0410 129	Fan Motor - EBM Slve 6" (115V)	
2b	58 0410 041	Fan Motor - EBM SLVE 6" (240V)	
3	58 1580 101	Condenser	
4	99 2650 113	Prod.Coil Conn Kit	
5a	58 0440 330	IBC Sensorix (115V)	
5b	14 2498 000	IBC Sensorix 220/240V	
6a	99 1860 192	Capacitor Assy. (115V)	
6b	99 1860 122	Capacitor Assy. (240V)	
7	58 0440 119	Probe Sensor ‘H’ Flat	
8	58 1860 199	Coil Assy. Prod (2P)	
9a	99 1860 190	No. 2 Pump Assy. EBM (115V)	
9b	99 2ZU618A	No. 2 Pump Assy. EBM (240V)	
not shown	58 0910 007	Mains Lead	
not shown	58 0450 065	Drier 7.5 gram R134a/R12	
not shown	99 0900 002	Compressor Fixing Kit	
not shown	99 1860 323	Panel Kit (052)	

8.1. WIRING DIAGRAM 115V



8.2. WIRING DIAGRAM 240V



ORDER FORM

GENUINE SPARES

Please complete fully all parts 1-4

OFFICE USE ONLY

1.

Customer Order Number:		**Cornelius Account No.**	

Name: _____ Company Name: _____

Day Time Phone Number: _____ Fax Number: _____

2.

Invoice Address: _____

_____

_____ Post Code: _____

Delivery Address: _____

_____

_____ Post Code: _____

Special Instructions: _____

OFFICE USE ONLY

3.

Part Number	Part Description	Qty Required	**Price per Unit**	**Cost**

Total Cost	
Delivery	
VAT @ 17.5%	
Total Order Value	

OFFICE USE ONLY

Delivery Date	**Checked on behalf of IMI Cornelius (UK) Ltd.**

IMI Cornelius standard terms & conditions of sale apply.

4.

Please indicate payment method: ☐ Account ☐ Cheque ☐ Postal Order ☐ Access/Visa

Cheques or Postal Orders should be made payable to IMI Cornelius (UK) Ltd.

For Access or VISA Visa Payments, please indicate your card number.

☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐☐ Expiry Date: _____

Signature: _____ Name: _____ Date: _____

Address: _____

_____ Post Code: _____

Please send to: IMI Cornelius (UK) Ltd, Rawson Spring Way, Riverdale Industrial Estate, Sheffield S6

TEL: 01142 855886 **ORDER 8.30 am** **HOTLINE 5.15 pm** **FAX: 01142 321070**

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