



**CUBE ICEMAKER MODELS  
SCU25, SCU35, SCU45, SCU75, SCU95, SCU120**

**INSTALLATION  
AND  
SERVICE MANUAL**

**VERSION 2**

**STUART MANUFACTURING**

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# TABLE OF CONTENTS

	<b>PAGE</b>
Specifications	1
Installation Instructions	2
Adjustments	3
Operation of Machine	4
Trouble Shooting	5
Operation Sequence	6
Cleaning	7
Parts List	8
Wiring Diagram	9

## SPECIFICATIONS

<b>MODEL</b>	<b>SCU25</b>	<b>SCU35</b>	<b>SCU45</b>	<b>SCU75</b>	<b>SCU75X</b>	<b>SCU95</b>	<b>SCU120</b>
ELECTRICAL	240V 50hz	240V 50hz	240V 50hz	240V 50hz	240V 50hz	240V 50hz	240V 50hz
AMPS	1.9	2.5	3.8	4.0	4.0	5.0	7.0
REFRIGERANT	R134a	R134a	R134a	R404a	R404a	R404a	R404a
CHARGE	190g	200g	220g	400g	590g	500g	650g
WATER PRESSURE	All Models	Minimum: Maximum:	140kpa 350kpa				
OPERATING TEMPERATURES	All Models	Minimum: Maximum:	10 degrees Celsius 43 degrees Celsius				
WATER CONNECTION REQUIREMENTS	All Models		3/4" BSP male stop cock				
DRAINAGE	All Models		Floor waste or tundish below drain outlet on machine				

# INSTALLATION INSTRUCTIONS

## LOCATION

1. All models, allow a minimum of 100mm above or beside and behind for correct ventilation. Best performance will be achieved between 10° & 32° Celsius
2. Machine must be LEVEL
3. Incoming water temperature affects ice production. Therefore, avoid above ground plumbing and pipes exposed to direct sunlight

## START-UP PROCEDURE

1. FIT ADJUSTABLE LEGS AND ENSURE MACHINE IS LEVEL
2. Connect drain hose to machine and ensure there are no kinks and it has a fall to the external drain.
3. Connect one water hose from inlet valve (tap) to inlet side of water filter. MAX 350kpa.  
Then connect second hose to outlet side of filter. Place open end of hose in a suitable drain, turn on inlet valve (tap) and run water at full flow for approx. 3 minutes to charge filter cartridge. Turn off inlet valve (tap), connect hose to machine and turn on water.
4. Connect power cord to supply and switch on power.

# ADJUSTMENTS

There is only one adjustment which can be made to the machine, ice bridge thickness. The machine should be allowed to complete two (2) cycles before making any adjustments.

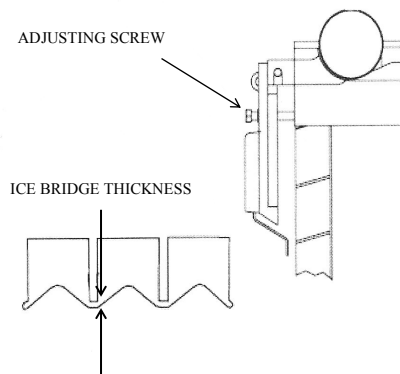
## ICE BRIDGE THICKNESS CHECK DO NOT ADJUST DURING HARVEST CYCLE

The ice thickness sensor is factory set to maintain the ice bridge thickness at 3mm

If adjustment is necessary, turn the ice thickness adjustment screw clockwise to increase bridge thickness or anticlockwise to decrease bridge thickness

### NOTE:

Turning the adjustment screw 1/3 of a turn will change the ice bridge thickness approx. 1.5mm



## **BIN CAPACITY**

No adjustment is necessary.

The machine will automatically stop when the storage bin is full and the pivoting ice slide is held down by the ice.

The machine will automatically restart when ice is removed and the pivoting ice slide is allowed to return to the upright position.

# OPERATION OF MACHINE

## Ice Making Sequence of Operation

### 1. INITIAL START-UP OR RESTART AFTER BIN FULL

Power light on (green)

Error light on 5 seconds (red)

Water valve open, fill trough to high level

Start compressor and open hot gas valve for 1 minute

Start water pump and run for 1 minute

Close hot gas valve

**Go to IceMaking Cycle**

### 2. ICE MAKING CYCLE

Compressor and water pump on

Run for 5 minutes before looking at ice thickness sensor

Continue running until ice has built out enough so that water touches ice thickness sensor for 1 minute then **go to Harvest (defrost) Cycle**

### 3. HARVEST (DEFROST) CYCLE

Stop water pump

Open hot gas valve

A) If pivoting ice slide opens and closes when ice slab leaves ice making plate go back to ice making cycle

B) If pivoting ice slide opens and is held open for longer than 30 seconds go to Bin Full Mode. When ice has been removed from machine or melts allowing the pivoting ice slide to close go back to Ice Making Cycle

### 4. BIN FULL MODE

Turn off compressor, water pump, hot gas valve and water valve.

Wait for pivoting ice slide to close and then go back to Ice Making Cycle

## **ERROR CODES**

When the red light on the front of the ice maker is flashing this indicates there is a problem and the machine has stopped making ice.

The error codes are:

- A) **2 Flashes** = Machine did not harvest (defrost) within 7 minutes
- B) **3 Flashes** = Machine did not fill with water within 5 minutes
- C) **5 Flashes** = Machine did not make ice within 40 minutes

When **Error A** or **B** occurs the machine will wait 30 minutes and go back to the **Start Up Cycle**. This sequence will be repeated every 30 minutes until the error is rectified.

When **Error C** occurs the machine will not restart until the error is rectified. Switching the power off and on will restart the machine but not necessarily rectify the problem.

# CLEANING

## CONDENSER CLEANING

A dirty condenser causes loss of production and could damage the unit, therefore it should be cleaned at least every three months (more frequently in dusty environments).

Disconnect the power and remove the front plastic air grille to access the condenser. The front plastic air grill is held in place with Velcro. By pulling the bottom of the grill the Velcro will release.

Using a stiff brush clean the face of the condenser, then use a vacuum cleaner to draw dust out of the condenser.

Replace front panel after

**CAUTION:** Condenser fins have sharp edges and can cause lacerations

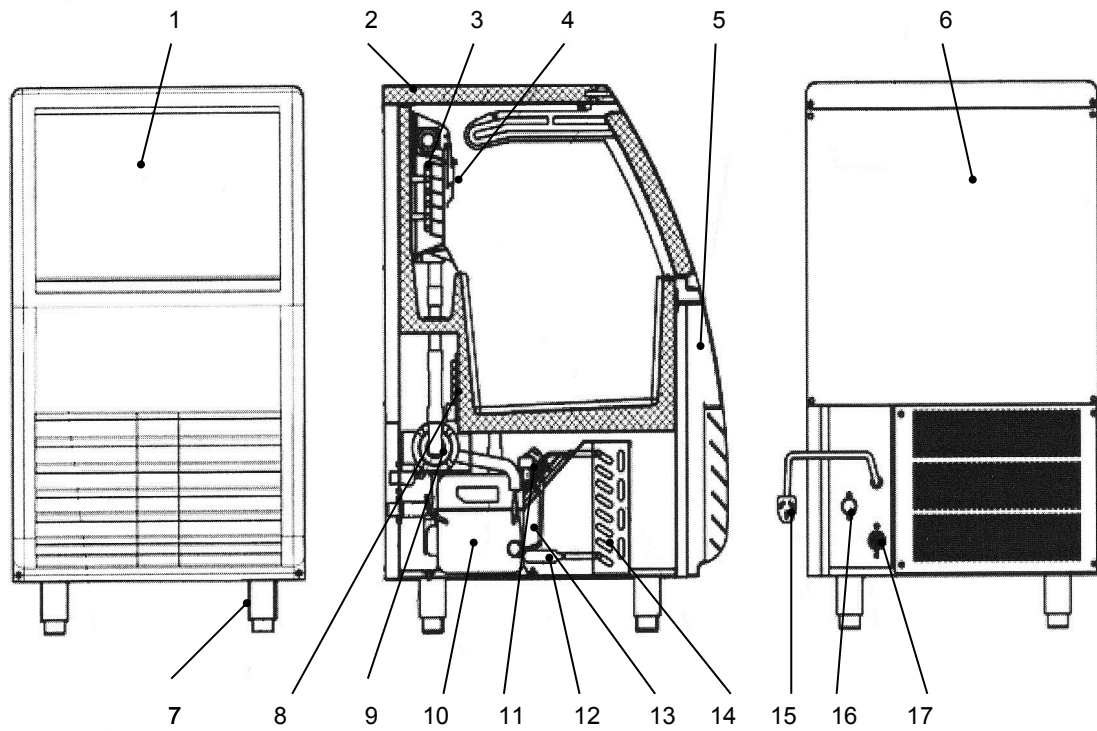
## INTERNAL CLEANING

After cleaning the condenser dispose of any ice in the storage bin.

Pour at least 1 litre of warm water into storage bin to flush drain hose.

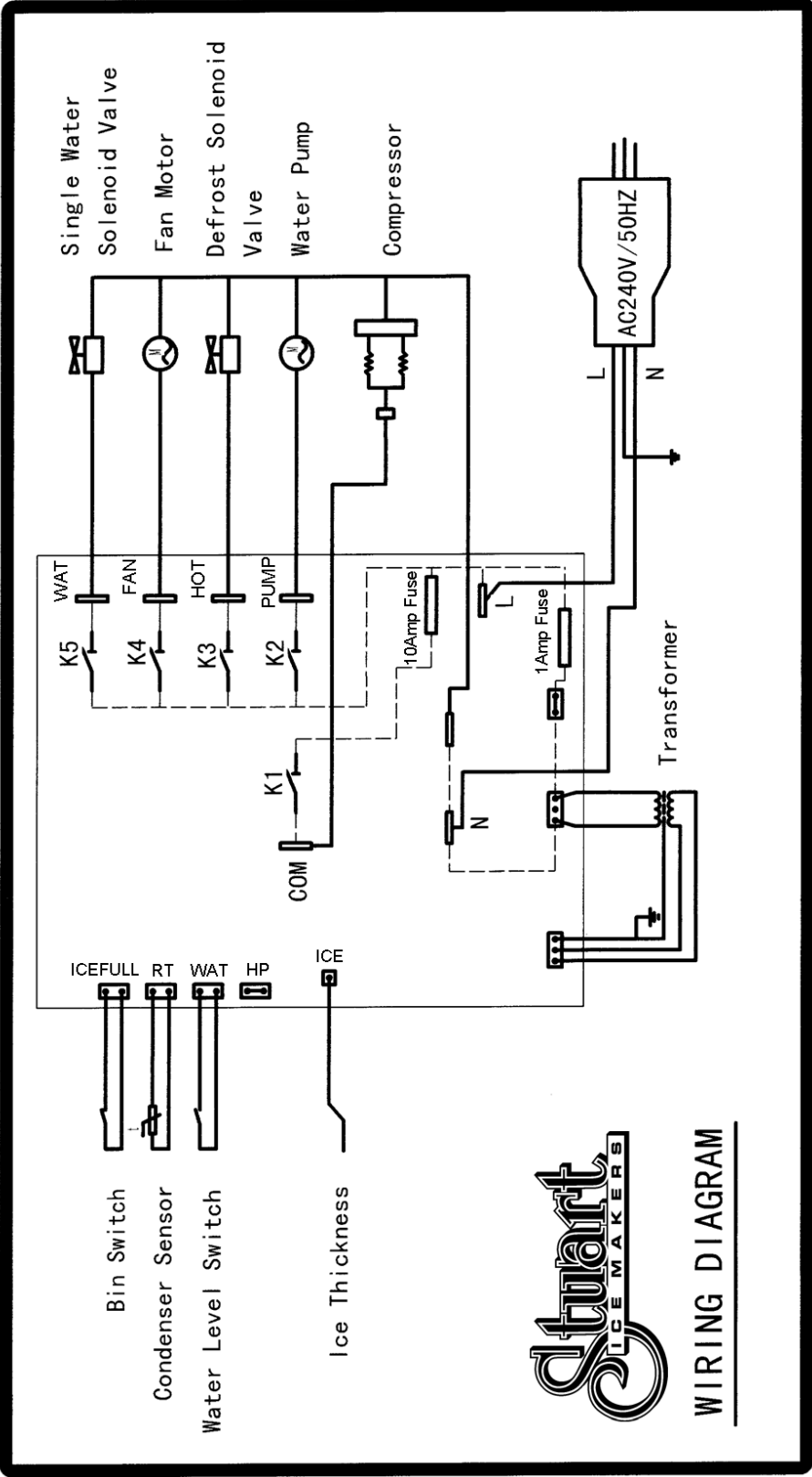
Using an approved sanitiser or a mixture of vinegar or citric acid and water, wipe the storage bin thoroughly to remove dirt.





## PARTS LIST

1. Door Assembly
2. Top Panel
3. Evaporator Assembly
4. Ice Thickness Sensor
5. Front Panel
6. Back Panel
7. Adjustable Leg
8. Control Board
9. Water Pump
10. Compressor
11. Hot Gas Valve
12. Drier
13. Fan Motor
14. Condenser Coil
15. House Lead
16. External Drain Fitting
17. Water Solenoid Valve



**MANUFACTURER'S LIMITED LABOUR AND PARTS WARRANTY**  
**STUART COMMERCIAL ICEMAKERS**  
**Model SCU25, SCU35, SCU45, SCU75, SCU95, SCU120**

CERISUN PTY. LTD. trading as STUART MANUFACTURING at 1 JAYELEM CRESCENT PADSTOW warrants to the original owner/user that any STUART SCU RANGE ICEMAKER shall be free of defects in material or workmanship under normal and proper use and maintenance service as specified by STUART MANUFACTURING and upon proper installation and start-up in accordance with the instruction manual supplied with the Product.

The obligation under this warranty is limited to:

- (1) associated and approved labour costs for a period of two years after original installation date;
- (2) the repair and/or replacement of parts or assemblies that in the opinion of STUART MANUFACTURING are defective, for a period of two years after the date of original installation;

The labour warranty shall include straight time labour charges at the product location only and shall exclude charges for travel time, mileage or other premium charges.

Any labour required to fulfill the warranty obligation must be performed by a refrigeration service company qualified and accepted by STUART MANUFACTURING.

This warranty does not include parts or labour coverage for components failure or other damage resulting from:

- \* external electrical power failure or miswiring to the Product for any reason
- \* external water supply failure or plumbing problems to the Product for any reason
- \* external drain line malfunction
- \* adverse operating conditions as set forth in the owner/user manual for the Product.

All claims for labour or parts must be made through the original reseller. The defective part for which reimbursement is claimed, together with the service invoice, must be returned to STUART MANUFACTURING, freight pre-paid, within fifteen days from date of service to be eligible for labour and parts warranty coverage. All replacement parts must be approved STUART parts.

Incidents of failure that do not require the replacement of a part shall be explained in sufficient detail on the service invoice to identify the failure. All claims shall include the product model number, serial number, original date of installation and customer identification.

The foregoing warranty shall not apply to:

- (1) Faults caused by dirty water distribution systems or icemaking plate
- (2) Adjustments to ice thickness caused by incorrect installation.
- (3) any part or assembly
  - (a) that has been altered, modified or changed
  - (b) that has been subjected to misuse, abuse, neglect or accidents or
  - (c) any Product or part on which the serial or model number has been removed or altered
- (4) any Product that has been installed and/or maintained inconsistent with STUART technical publications
- (5) any product that has been installed or is located outside Australia.

The two years compressor parts warranty shall not apply when the Product's refrigeration system is modified with a condenser, heat reclaim device, or parts and assemblies other than those supplied by STUART MANUFACTURING unless STUART MANUFACTURING has accepted modification for specific installation in writing.

STUART MANUFACTURING assumes no liability for misuse or inadequate maintenance of the Product.

In no event shall the owner/user be entitled to recover incidental or consequential damages, including but not limited to damages for inconvenience, ice purchase, rental or replacement equipment, loss of profits or other commercial loss.

Warranties stated above are the only warranties made in connection with the sale and distribution of the Products.

ANY AND ALL OTHER EXPRESSED, STATUTORY AND IMPLIED WARRANTIES APPLICABLE TO THE PRODUCT, INCLUDING, WITHOUT LIMITATIONS, ALL IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR USE ARE EXPRESSLY DISCLAIMED.

The warranty information set forth above shall be governed by and construed in accordance with the laws of the state of NSW and, if applicable the laws of Australia. The labour warranty, as stated is extended only to the original owner/user and is not assignable to any other owner or user.

## WARRANTY CLAIM GUIDELINES

### Model SCU25,SCU35,SCU45,SCU75,SCU95,SCU120

All STUART SCU range icemakers carry a standard two years warranty. This covers two years labour, two years on parts and two years on compressor failure, provided warranty conditions are met and installation is in accordance with published standards.  
All dates are from the date of installation. This date is assumed to be a maximum of eight (8) weeks from the date of invoice to the dealer.

Warranty claims are conditional on the following:

- (1) All claims for labour or parts must be made through the original reseller.
- (2) The defective part must be returned with the service invoice to STUART MANUFACTURING, freight pre-paid, within 15 days of date of service. Details of End User, Model, Serial Number and Date of Installation of the product must be provided with the claim.
- (3) All replacement parts must be detailed and be approved STUART parts.
- (4) All labour only claims must be explained in sufficient detail on the service invoice to properly identify the nature of the failure.
- (5) The labour warranty includes standard straight time charges at the installation location only and does not include charges for travelling time, mileage or other premium charges.
- (6) When consumables such as driers,refrigerant etc. are supplied by the service agent, the cost allowed will be the Refrigeration Wholesalers list price only.
- (7) If a compressor is faulty and requires replacement, the service agent MUST contact Stuart Manufacturing before obtaining a replacement.

The warranty will not apply in the following circumstances:

- (1) When any part, assembly or ice machine:
  - (a) has been altered, modified or changed
  - (b) has been subject to misuse, neglect or accident
  - (c) where the serial number or other identification has been removed or altered.
- (2) When the product has been installed and or maintained in a manner inconsistent with the approved procedure or STUART technical publications.
- (3) The two years compressor warranty will not apply where the refrigeration system has been modified with a condenser, heat reclaim device or part or assembly not approved by STUART MANUFACTURING.

### **GENERAL**

The following warranty will apply to all spare parts:

- (a) Replacement parts exchanged while the original equipment is still under manufacturers warranty will be covered on a pro-rata basis up to the warranty expiration of equipment in which they are installed.
- (b) Warranty on spare parts other than the above is three (3) months from the date of installation as evidenced by suitable documentation or eight (8) weeks from the invoice date of sale to the dealer.