

## S4E V2 Hi-Carb Superchiller 230V / 50Hz

# Installation, Operation & Service Manual



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### 1. Introduction

Thank you for purchasing this quality Lancer product. All Lancer products are constructed using the highest quality materials and components. They are designed to the highest possible standards, therefore offering our customers endless hours of optimum performance.

### 2. The Company

Hoshizaki Lancer is a wholly owned subsidiary of Lancer Corporation, a world leader in the supply of Beverage Dispensing Equipment based in San Antonio, Texas. Lancer has manufacturing bases and distribution networks in 97 countries. Lancer is in turn ultimately owned by Hoshizaki Electric Co Ltd of Nagoya, Japan. Hoshizaki is a global leader in food service equipment.

Hoshizaki Lancer's head office and manufacturing base is located in Adelaide (SA), with branch offices and warehousing facilities in Sydney (NSW), Melbourne (VIC), Brisbane (QLD), Perth (WA) and Auckland (New Zealand).

### 3. Our Products

Lancer specialises in the design, engineering, manufacture, and marketing of beverage dispensing equipment in two core categories:

#### Soft Drink Equipment

Mechanically cooled and ice cooled soft drink dispensers, frozen beverage dispensers, dispensing valves, carbonators and an extensive line of beverage dispensing parts and accessories.

#### **Beer Equipment**

Lancer manufactures and markets beer dispensing and chilling equipment, and related accessories. Products include founts, chillers, Chillerplates, drip trays, taps, handles, beer line cleaning equipment and an extensive line of beverage dispensing parts and accessories.

### 4. Product Details

#### 4.1 Product Features

The Lancer Superchiller is an Australian design and manufactured remote refrigerated unit designed to refrigerate and distribute post-mix (soft drinks) as well as maintaining the product temperature through the python and dispenser.

#### 4.2 Specifications

Voltage	230 Volts
Frequency	50 Hz
Max Current Draw	7.5 Amps
Ambient Temperature	2 - 40°C
Heat Rejection	3200 watts
Dimensions	
Width	1050 mm
Depth	505 mm
Height	655 mm
Weight	
Shipping	110 kg
Empty	103 kg
Operating	175 kg
Refrigerant	800 Grams R134a
Ice bank Weight	30 kg
Water Bank Capacity	72 litres
Construction	Stainless Steel
Drink Capacity	275 x 355 ml (12 oz) drinks below 4.4°C at 4 drinks per minute with
	40°C ambient, syrup inlet temperature and 32°C water inlet
	temperature.

#### 4.3 Models

S4E22LA V2	Superchiller with carbonation and soda circulation pumps.
S4E22LAS V2	Superchiller with carbonation and soda circulation pumps with Syrup coils.
S4E23LA V2	Superchiller with carbonation, soda and water circulation pumps.
S4E23LAS V2	Superchiller with carbonation, soda and water circulation pumps with Syrup coils.

#### 4.4 Options

- Adjustable Legs (79232218). Height with legs approx. 805mm
- Casters (79602411). Height with casters 765mm

### 5. Superchiller Safety Information

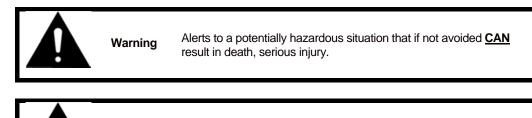
#### 5.1 Safety Instructions

For your personal safety, and that of others working around you please read, understand, and follow thoroughly all safety instructions included in this manual and on the Superchiller.

- Review all applicable OSH (Occupational Safety & Health) regulations.
- Review all applicable Beverage Dispensing Gas Standards
- Learn how to operate the Superchiller and use the controls properly.
- Do not allow untrained personnel to operate the machine.
- Ensure that the Superchiller is maintained according to service manual instructions.
- Do not allow any unauthorised modifications to the machine.

#### 5.2 Recognise Safety Alert Symbols

The safety alert symbol precedes **Warning** and **Caution** notes throughout this manual. To prevent personal injury or damage to the machine these alerts must be strictly adhered too.

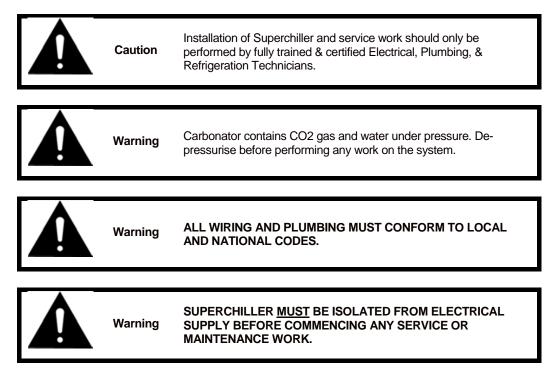


**Caution** Alerts to a potentially hazardous situation that if not avoided <u>MAY</u> result in injury or equipment damage.

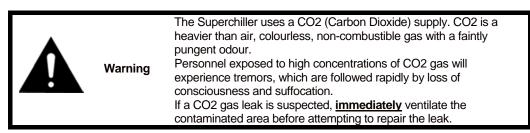
#### 5.3 Operating

Warning	Superchillers are intended for indoor operation only; do not operate outside unless suitably protected by a weatherproof enclosure. This appliance is not suitable for installation in an area where a water jet could be used.
Caution	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

#### 5.4 Service & Maintenance



#### 5.5 Carbon Dioxide (CO2)



### 6. Installation

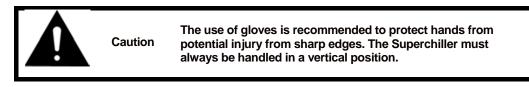


To avoid personal injury or damage, do not attempt to lift a Superchiller without help. Use of a mechanical lift is recommended. (NOTE: Empty S4E Superchiller weight: 103kg)

#### 6.1 Receiving

Each unit is completely tested under operating conditions and thoroughly inspected before shipment. At time of shipment, the carrier accepts the unit and any claim for damage(s) must be made with the carrier. Upon receiving units from the delivering carrier, carefully inspect shipping crate for visible indication(s) of damage. If damage exists, have carrier note damage on bill of landing and file a claim with the carrier.

#### 6.2 Unpacking

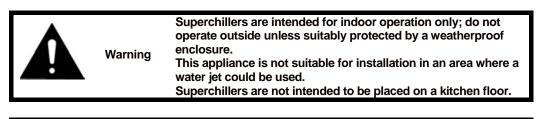


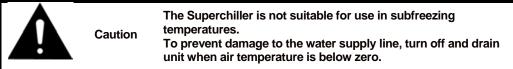
 $\label{eq:carefully unpack the Lancer S4E Superchiller from the shipping carton, remove the wooden base.$ 

If appropriate, assemble legs to unit by carefully tilting (tilt should not be more than 45°).

Inspect unit for concealed damage and if evident, notify delivering carrier and file a claim against the carrier.

#### 6.3 Selecting a Location

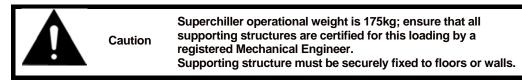




- The S4E Superchiller should be located in a well-ventilated, firm, level location close to dispenser, water and electrical supplies, with easy access for servicing
- Ensure sufficient clearance around Superchiller to allow good fresh air circulation through the condenser allow at least 200mm at rear and sides.
- Installation should only be performed by a qualified and competent technician.

#### 6.4 Mounting Superchiller

- Install on a flat, level surface using adjustable legs or casters (Optional).
- Fix to supporting structure using 4 x ¾" BSW bolts screwed into base supports.



#### 6.5 Connecting Python

Connect Python to Chiller and Dispenser.



NOTE: The S4E Superchiller is rated to operate with a maximum of 30m of python connected. Exceeding manufacturer's ratings may cause damage to the Superchiller and <u>void warranty</u>.

#### **Python Details**

Recirculation	Lines
1 COULD OUT OUT OUT OUT	

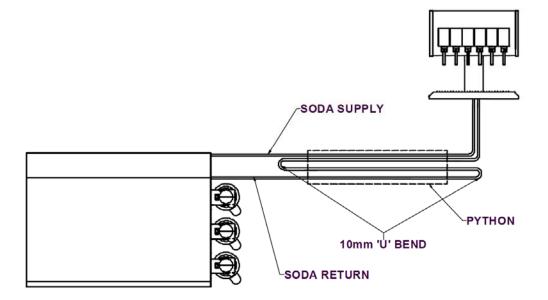
Recommended Product	Tube Markings	Colour Configuration
Water Supply	Water Supply	Beige
Water Return	Water Return	White
Soda Supply	Soda Supply	Maroon
Soda Return	Soda Return	Black

#### Product Lines - Syrup Coils (Optional):

Tube Markings		Colour Configuration
11	Blue	
22	Violet	t
33	Gree	n
44	Yello	N
55	Grey	
66	Oran	ge
77	Brow	n
888	Red	

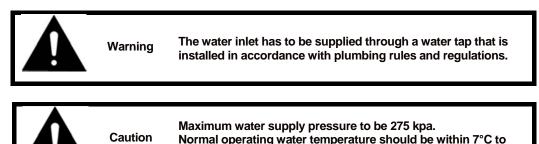
Ensure lines are insulated from python to Superchiller connections to prevent condensation.

**Note:** For additional Soda reserve on short python lengths used in high volume accounts, it may be necessary to extend the soda circuit by connecting the 2 spare lines in the python onto the soda return line (i.e. double pass of soda circuit out and back from dispense point to soda return).

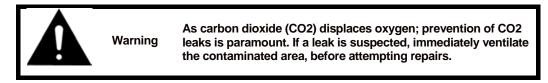


#### 6.6 Connecting to water supply

- Using appropriate tubing and fittings connect a 10mm water supply line from Superchiller carbonator pump inlet tee to a filtered, regulated water supply. (See Postmix circuit diagram page 13). Installation in accordance with AS/NZS 3500.1 and AS/NZS 3500.2.
- Turn on water supply, check for leaks, adjust water regulator to 172-275kpa.
- Open the carbonator relief valve until water flows from CO2 exhaust tube; then close the relief valve.



#### 6.7 Connecting to CO2 supply



- Connect CO<sub>2</sub> supply line from regulator to gas inlet on carbonator. (See Postmix circuit diagram page 13 for details)
- Adjust CO<sub>2</sub> Regulator supplying Carbonator to 550 kpa.

35°C.

• Turn on CO<sub>2</sub> supply.

#### 6.8 Filling unit with water

Remove Superchiller lid and fill water bath until water flows out overflow tube.

**NOTE:** Do not use water supplied from newly installed carbon filter as ice bank control operation will be adversely affected.

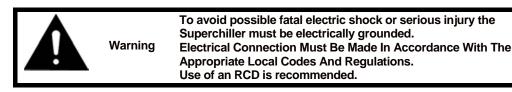
#### 6.9 Electrical Connection

- This unit is connected to the supply via a 10 amp flexible cord fitted with a 3 pin plug.
- Check the name plate on the machine for electrical supply requirements. Use only the power supply specified on the name plate.



Warning

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.



#### 6.10 Plumbing the drain and CO2 exhaust

The 19mm overflow drain tube exiting from the RH Pump Panel of the unit should be plumbed to a suitable drain, installation in accordance with AS/NZS 3500.1 and AS/NZS 3500.2.

The 6mm barb labelled as CO<sub>2</sub> EXHAUST should be plumbed to an outside safe area.

#### 6.11 Commissioning

- Unplug carbonator and recirculation pumps power supply leads from electrical box located under lid.
- Connect Superchiller power supply lead to an appropriate 3 pin socket outlet and switch on. Compressors, condenser fans and agitator motors should all operate.
- When Superchiller ice bank is fully formed (approx. 4 hours) the compressors and condenser fans will cycle off, but agitator will run continuously (unit has cycled off).
- After Superchiller has cycled off, reconnect carbonator and recirculation pumps.

#### 6.12 Purge System

Progressively activate each dispensing valve or Bargun connected to the Superchiller systems until an uninterrupted flow of soda, water (where applicable), and syrup pours from each dispenser.

#### Scheduled Maintenance 7.



The Chillers must not be cleaned by a water jet.

The following Superchiller routine maintenance should be performed at the intervals listed.

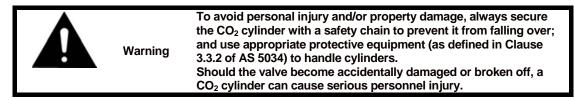
#### Daily

#### **Cleaning/Sanitising**

The Superchiller supplies soda water to the dispensing valves/barguns. To ensure optimum drink quality and system performance at all times please follow cleaning and sanitising procedures for the dispensing valves/barguns recommended by the valve/bargun manufacturer.

#### Checking CO<sub>2</sub> Supply

Ensure that the contents gauge on the  $CO_2$  Regulator reads higher than 1400kpa on the dial. If it does not, then the  $CO_2$  cylinder is empty and must be changed using safe working practices.

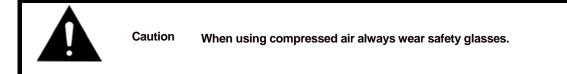


#### Quarterly

The Superchiller should be connected to a filtered water supply. To ensure optimum drink quality and system performance, water filters should be replaced every 3 months.

#### Half Early

 Remove & Clean condenser filters on the Superchiller. Clean condenser with low pressure compressed air. When using compressed air always direct air from the fan side through condenser. Remove all dust and foreign particles from refrigeration deck.



- Check that the water is level with the top of the overflow tube. Add water if necessary.
- Open carbonator relief valve to purge CO2 and check leakage, close relief valve after checking.

#### Yearly

#### Water bath and recirculation pump inspection.

- Isolate Superchiller from power supply by switching off at socket.
- Thaw the bank of ice formed in the tank. Empty the water from the tank with a suction pump or drainage pipe.
- Inspect coils and agitator in water bath for algae or slime accumulation. Clean as necessary using a soft brush, rinse with clean water.
- Check recirculation pump strainers for accumulation, replace if necessary.
- Fill tank with clean water until water flows out the overflow tube.
- Switch on power supply and check ball position in flow indicator section of strainer. If ball indicates flow is less than 5 litres per minute, replace pump.
- Commission and purge system as per clause 6.11 and 6.12.

#### Sanitisation of Beverage System

To maintain optimum quality of dispensed product each Superchiller and its associated beverage system components must be thoroughly cleaned and sanitised annually.

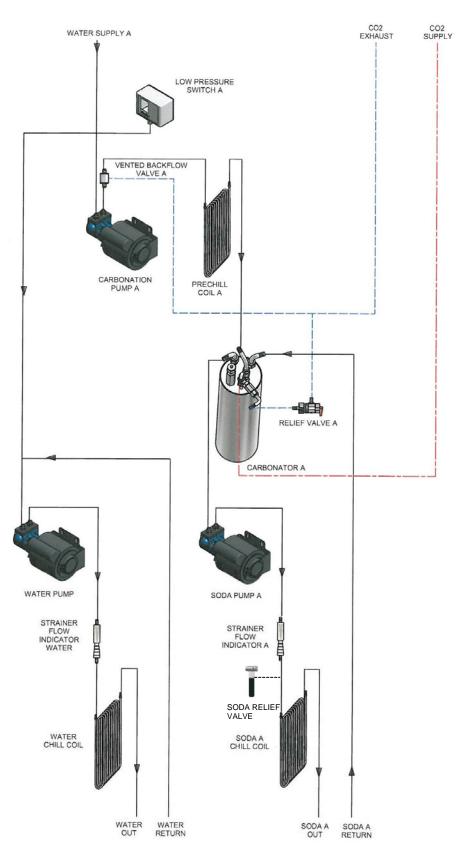
#### Prepare sanitising solution

Prepare sanitising solution in accordance with the manufacturer's written recommendations and safety guidelines.

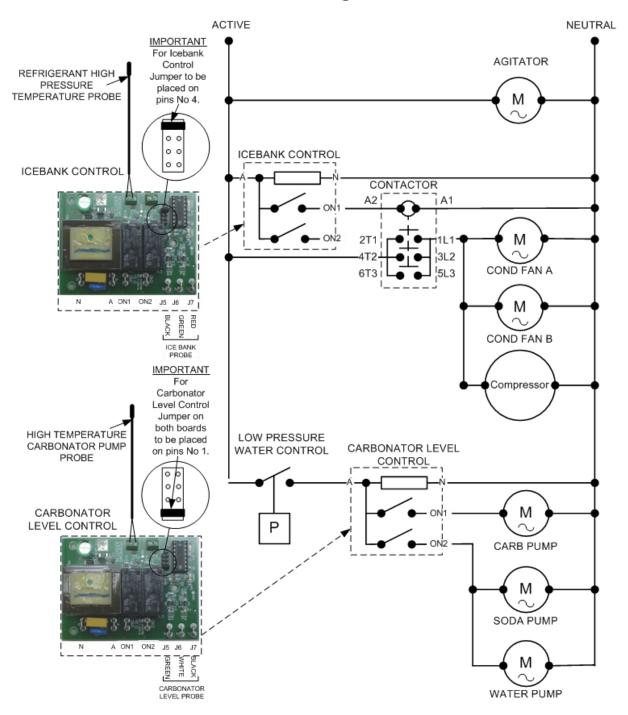
#### Sanitising BIB System

- Remove all disconnects from BIB containers.
- Immerse all disconnects in warm water and clean using a nylon bristle brush. Rinse with clean water.
- Prepare sanitising solution according to manufacturer's instructions.
- Attach sanitising fittings to BIB disconnects, if sanitising fittings are not available cut fittings from empty BIB bags.
- Immerse all sanitising fittings with attached BIB disconnects in bucket of sanitising solution. Operate all dispensing valves until the sanitising solution flows from the valve. Allow sanitiser to remain in lines for fifteen (15) minutes.
- Immerse all sanitising fittings with attached BIB disconnects in bucket of clean water. Operate all dispensing valves until all sanitiser has been flushed from the system.
- Remove sanitising fittings from BIB disconnects and re-connect disconnects to appropriate BIB's.
  Operate dispensing valves until syrup flows freely.

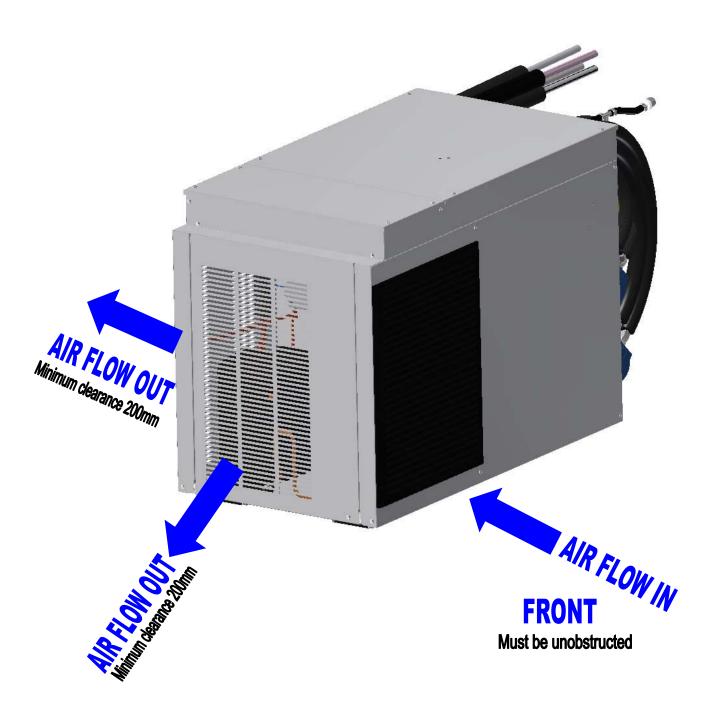
### 8. Postmix Circuit Diagram



### 9. Electrical Circuit Diagram



### 10. Airflow Diagram



### 11. Trouble Shooting

#### 11.1 Refrigeration

TROUBLE	CAUSE	REMEDY
Compressor will not start.	Power Failure.	Check for blown fuse, supply cord pulled out or supply outlet turned off.
	High Pressure temperature switch activated. LED on Ice Bank Control board illumined.	Turn chiller "off" at supply socket then "on" again to reset controller.
	Ice bank control faulty contacts not closing.	Check Ice bank control using Procedure on page 19. Replace control or probe if defective.
	Check start mechanism components.	If faulty, replace e.g. capacitors, start relays.
	Thermal overload faulty, open, circuit compressor seized.	Replace compressor, check condenser, check power supply, evacuate system and if necessary fit burnout drier to industry standards.
Compressor short cycling on thermal	Dirty condenser.	Clean condenser of all lint and dirt.
overload (frequent starting and stopping	Restricted air flow over unit.	Check for air restriction to condenser.
of the compressor while ice bank control	Low supply voltage.	Check with voltmeter.
contacts remain	Defective thermal overload.	Replace compressor.
closed).	Check wiring connections.	Tighten if loose.
	Fan motor bearings tight or seized.	Replace motor(s)
Product too warm	Ice bank control defective (permanently open circuit).	Check Ice bank control using procedure on page 19. Replace control or probe if defective.
	Low refrigerant charge.	Leak check, repair leak, charge with correct amount of refrigerant.
	Check agitator motor, seized or fused.	Replace if not working.
Compressor runs too	Location too hot.	Relocate or improve ventilation.
long or doesn't cycle.	Superchiller overloaded.	Use larger model, or reduce python length.
	Loss of refrigerant.	Leak check and repair.
	Condenser clogged.	Clean off dust, line, grease, etc.
	Fan not operating.	Remove obstruction or replace motor.

#### 11.2 Troubleshooting – Postmix

TROUBLE	CAUSE	REMEDY
Rusty appearance and/or metallic taste to water.	Poor water supply - contaminated.	Carbon filter required.
CO <sub>2</sub> gas or water escapes from pressure relief valve. (Observed	CO2 pressure too high.	Check CO2 pressure relief valve. Bleed gas by opening and closing the relief valve - set to 550 kpa.
from CO <sub>2</sub> exhaust)	Pump motor will not stop.	Check carbonator control using procedure on page 20. Replace control or probe if defective.
	Inadequate water supply. Lines too small or restricted.	If strainer and filter are clear and line valves are fully open, noisy pump operation indicates insufficient water supply. Minimum water supply is 172 kpa flowing pressure.
	Misaligned or damaged motor and pump facings.	Realign or file flat.
Poor carbonation (low CO <sub>2</sub> volume).	Flooded carbonator.	Check carbonator control using procedure on page 20. Replace control or probe if defective.
	Dirty water supply.	Check filters.
	CO2 pressure too low.	Check CO <sub>2</sub> pressure at regulator. Should be set between 550 kpa. CO <sub>2</sub> inlet check valve stuck, shut or blocked, repair or replace.
	Poor quality paper cups.	Purchase better quality cups.
	Dirty or greasy glasses.	Wash all glasses.
	Improperly drawn drink.	Open faucet all the way and draw against side of glass or cup.
Pump leaks from shaft seal.	Worn pump seals.	Replace pump.
Pump will not run.	Power failure or low voltage.	Check fuses. Check power supply.
	Carb pump hi temp LED on icebank control board illuminated	Check for icebank growth into product coils, defrost and turn off chiller supply socket and on again to reset
	Defective motor.	Replace motor.
	Locked up pump. Motor has cut out on overload.	Replace pump.
	Faulty low pressure switch (if fitted).	Ensure of adequate water supply. Switch should close above 172 kpa. Replace if defective.
	Carbonator flooded – filled completely with water.	Check mains water pressure - must be at least 135 kpa lower than CO <sub>2</sub> (install water pressure regulator if necessary)

		Check CO <sub>2</sub> regulator. Check carbonator control using procedure on page 20. Replace control or probe if defective.
	Carbonator empty - faulty Carbonator probe or control.	Check carbonator control Using procedure on page 20. Replace control or probe if defective.
	Low water supply pressure.	A minimum of 172 kpa water supply pressure is required
	Excessive CO <sub>2</sub> Pressure.	Check function & setting of CO <sub>2</sub> regulator.
Faucet delivers CO2 gas continuously.	Carbonator pump will not run due to power failure or low voltage.	Check fuses. Check power supply.
	Pump water supply restricted.	Ensure clean mains water supply tap is open, or replace filters.
	Carbonator pump will not run due to excessive carbonator $CO_2$ pressure.	Check Carbonator $CO_2$ pressure regulator for creeping. It should be set at 550 kpa.
	Faulty low pressure switch.	Ensure adequate water supply (minimum pressure 172 kpa flowing pressure). Pressure switch is set to open below 35 kpa and reset at 172 kpa.
	Defective Carbonator motor.	Check operation by plugging into circulation pump socket momentarily. Replace motor if necessary.
	Locked up pump. Motor has cut out on overload.	Replace pump.
	Carb pump hi temp LED on icebank control board illuminated	Check for icebank growth into product coils, defrost and turn off chiller supply socket and on again to reset
	Carbonator empty – faulty control board or level probe.	Check carbonator control using procedure on page 20. Replace control or probe if defective.

### 12. Hydra Icebank Control Go/No Go Test

This is a test to simulate the building and erosion of the icebank; to determine if the icebank control is operating correctly. The test assumes that all other components in the refrigeration system (e.g. high pressure cut-out reset) are in an operational condition.



230VAC is present on terminals N, A, ON 1, ON 2 terminals. Work should only be performed by fully trained & certified Electrical, Plumbing & Refrigeration Technicians.

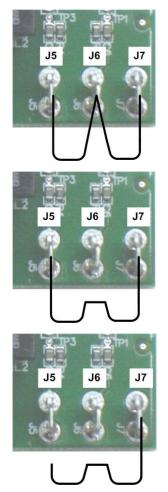
- 1. Remove the ice bank probe connections from terminals J5, J6, J7.
- Connect alligator jumper to terminals J5, J6, J7. Ice bank control relay should close and refrigeration system start.

(Simulates water covering all probes)

3. With refrigeration system operating (ice bank control relay energised) remove alligator jumper from terminal J6. Refrigeration system should continue to operate.

(Simulates ice growth over green probe. Water still contacting red and black probes)

 With refrigeration system operating, remove alligator lead from terminal J5. Refrigeration system should stop. (Simulates ice growth over black probe only)



### 13. Hydra Carbonator Level Control Test

This is a test to simulate water filling/emptying in the carbonator to determine if the carbonator control is operating correctly. The test assumes that all other components in the water/soda system (e.g. low water pressure control) are in an operational condition.



230VAC is present on terminals N, A, ON 1, ON 2. Work should only be performed by fully trained & certified Electrical, Plumbing, & Refrigeration Technicians.

1. Remove the carbonator probe connections from terminals J5, J6 & J7. The carbonator pump should operate.

(Simulates no water between ground (carbonator tank) and low level probe)

2. With carbonator pump operating connect alligator jumper from terminal J5 to terminal J7. Carbonator pump should continue to operate.

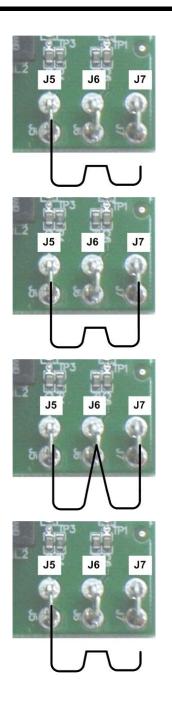
(Simulates water covering low level probe.)

**3.** With carbonator pump operating, connect alligator lead to terminal J6. Carbonator pump should stop.

(Simulates water over low & high level probes)

4. Carbonator pump will not restart until alligator clips are removed from J6 & J7.

(i.e. Water level drops below low level)

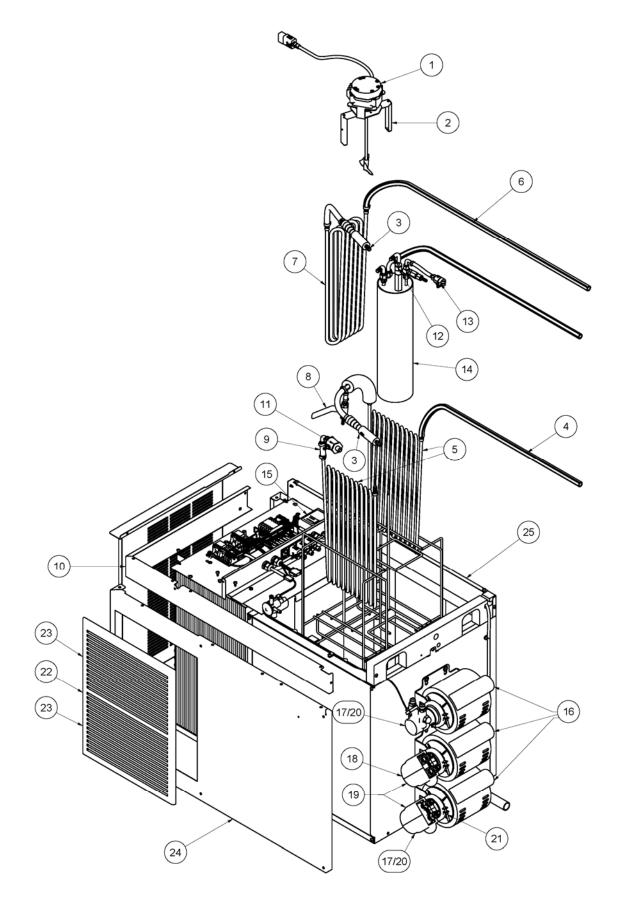


### 14. Assembly Diagrams & Parts List

#### 14.1. Postmix Parts List

Ref.	Parts No.	Description
1	80000092	AGI MOTOR 240V / 50Hz
2	61000161	AGITATOR BRACKET
3	87000052	STRAINER FLOW INDICATOR
4	63000154	SODA COIL ASSY S4E V2
5	63000110	SODA / PRECHILL COIL S4E V2
6	63000152	WATER COIL ASSY S4E V2
7	63000108	WATER CIRCULATION COIL
8	79000739	BALL VALVE SS WATERMARKED
9	63000153	PRECHILL COIL ASSY S4E V2
10	61000481	FRONT UPPER PANEL S4E V2
11	79000683	BACKFLOW PREV WATTS 9DB (AUS)
12a	23521975	CARB PROBE
12b	23000022	PROBE WASHER
13	0800002	CARBONATOR RELIEF VALVE
14	23822336	LANCER CARBONATOR ASSY
15	83287311	LOW PRESSURE CONTROL KPI
16	8000074	CIRCULATION PUMP MOTOR
17	78000021	PUMP BRASS BY PASS
18	78000022	PUMP PROCON S/S CO1604X
19	87000034	INSULATOR ASSY PUMP
20	78000020	BRASS PUMP DRIVE KEY
21	78000018	'V' BAND CLAMP
22	95000642	LOUVRE KMD-0201AA
23	95000641	FILTER KMD-0201AA
24	61000319	FRONT PANEL S4E
25	61000483	REAR UPPER PANEL S4E

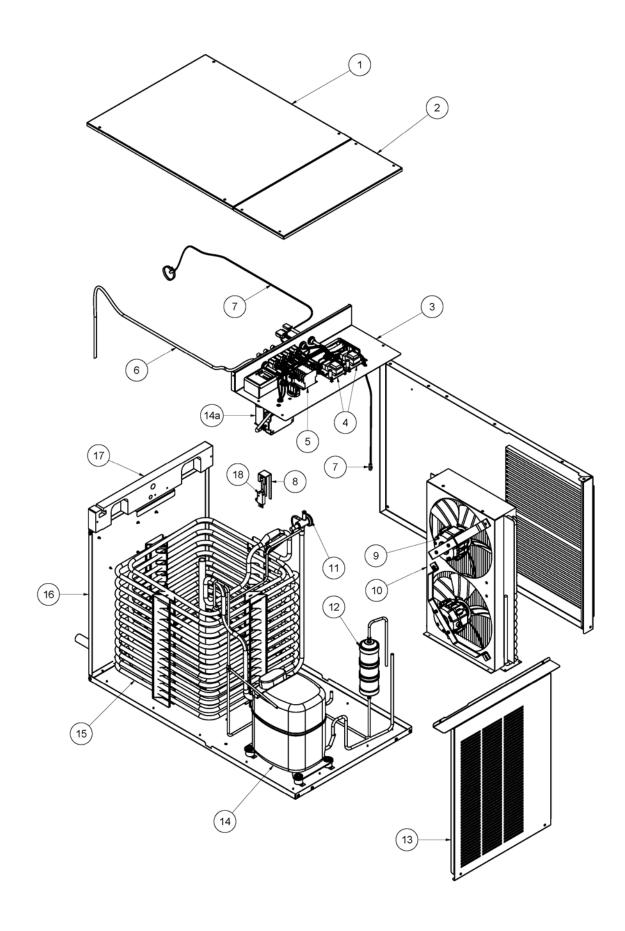
#### 14.2. Postmix Assembly Diagram



#### 14.3. Refrigeration Parts List

Ref.	Parts No.	Description
1	61000480	MAIN LID S4E V2
2	61000479	ELECTRICAL BOX LID S4E V2
3	83000293	ELECTRICAL BOX ASSY V2
4	83000278	CONTROL LEVEL I/B HYDRA R2
5	83600811	MINI CONTRACTOR CI4-9 DANFOSS
6	83000220	LEAD POWER SUPPLY S4E
7	83000209	PROBE NTC STRAP ON
8	61000258	ICEBANK PROBE BRKT ASSEMBLY
9	8000083	CONDENSOR FAN ASSY ECR1
9a	84000022	CONDENSOR FAN ASSY FASCO
10	84000017	CONDENSOR
11	83000114	TX VALVE
12	87000102	RECEIVER DRIER
13	61000247	GRILL END PANEL S4E
14	80000073	COMPRESSOR 230V / 50Hz
14a	83000282	COMPRESSOR START RELAY & CAPACITORS
15	62000069	EVAPORATOR ASSY
16	61000320	RH PANEL S4E
17	79000548	CLAMP TUBES S4E
17a	79000549	CLAMP TUBES SYRUP
18	16522334	ICE BANK PROBE

#### 14.4. Refrigeration Assembly Diagram



### 15. Certificate of Warranty

It is the policy of Hoshizaki to provide to its current customers, warranty for all equipment supplied and installation work performed within a specified period.

#### Parts and Equipment

Lancer provides a warranty period of twelve (12) months from the date of original invoice for all manufactured parts and the associated labour. Repair or replace of defective parts will be at the sole discretion of Lancer.

Changeover parts will be invoiced to the customer at the customers normal purchase cost and upon return of the warranty item and validation of the claim, the invoice will be credited.

#### Installations

Lancer provides a warranty period of twelve (12) months from the date of final invoice for workmanship after the completion of any installation work, provided the parts and labour are completed by Lancer or its subcontractor.

#### Labour

Lancer will not normally cover any labour costs associated with a warranty claim. Subject to the approval of the Divisional Sales Manager, Lancer may choose to reimburse the customer for some or all labour costs associated with a warranty claim. Any claim for labour costs must be authorized by Lancer prior to the work being undertaken.

#### Exclusions

Lancer will not accept any liability or cost associated with any consequential losses (such as loss of syrup or beer), loss of profit or damage to property as a result of faulty product.

#### Warranty shall not apply:

- a) If in the opinion of Lancer, the equipment has been used in a situation the equipment has not been designed for;
- b) If in the opinion of Lancer, the equipment has been subject to abuse, negligence or accident;
- c) If connected to improper, inadequate or faulty power, water or drainage service or operated using incorrect, insufficient or contaminated lubricants, coolants, refrigerants or additives;
- Where the product is installed, maintained or operated otherwise than in accordance with the instructions supplied by Lancer;
- e) Where the product has been damaged by foreign objects;
- f) Where the product has been serviced, repaired, altered or moved otherwise than by Lancer or its nominees or using other than Lancer approved replacement parts.

To obtain full details of your warranty and approved service agency, please contact your dealer / supplier, or your local Hoshizaki Lancer office.

#### Hoshizaki Lancer - Head Office

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### 16. Manufacturer's Checklist

Checked by Date	
Postmix Tested by	
Gas ChargeIcebank Probe fitted	
Electrically tested by	
TAG No	
High temperature probe located on liquid line between coil and receiver / dryer	
High temperature probe located on carb pump	
Ensure soda releif valve is in the off position	
Compressor wiring connections label affixed, wiring checked and label signed	
Refrigeration system final check. Ensure evaporator fully frosts.	
Check all tube work for rubbing e.g. discharge line, liquid line, TX capillary.	
Condenser not touching divider panel or grille.	
Agitator blades tight and not touching coils cradle.	
Overflow pipe correct height and positioned straight.	
All motors and pumps secured and mounted correctly.	
All pumps run quietly and carbonator pump switched O.K.	
Check icebank probe position and tightness.	
Carbonator and plumbing pressure tested. Check for leaks on pumps, clamps, welds, strainers,	
carbonator fittings and all joints.	
Coils in cradle correctly and spaced.	
Postmix tubes not rubbing.	
Plumbing strapped correctly and not touching the agitator.	
Tube labels on correct tube.	
Superchiller sticker correctly positioned and straight.	
Attention sticker fitted and correctly positioned.	
Clean exterior of unit including power cords.	
Condenser filters fitted.	
Warning sticker applied	Affix label here
L.P. control operates.	
Spreader pin pointing towards tank.	
Check body for sharp edges.	
Check lid for cleanliness and rough edges. Fit and secure.	
Carbonator relief valve fitted and correct.	
Copy checklist & file, put manual/checklist and pump insulator kit in plastic bag & place in the tank area.	
Customer asset No.	
W/O	