LANCER
A HOSHIZAKI Company

Siberian™ Elite Glycol Chiller
230V / 50Hz

Installation, Operation & Service Manual





GLOBAL & GREEN
THINK THE EARTH

Table of contents

1. Introduction ... 3

2. The Company ... 3

3. Our Products ... 3

4. Product Details ... 3

4.1 Product Features ... 3
4.2 Specifications ... 4
4.3 Options ... 4

5. Installation ... 5

5.1 Receiving ... 5
5.2 Unpacking ... 5
5.3 Selecting a Location ... 5
5.4 Refrigeration Connection ... 5
5.5 Connecting Glycol Lines ... 6
5.6 Electrical Connection ... 6
5.7 Filling Unit with Glycol / Water ... 7
5.8 Commissioning ... 7

6. Thermostat– Carel Pjeasy – Thermostat Parameters ... 9

6.2 Programming Instructions ... 10
6.2.1 Set Point ... 10
6.2.2 Other Parameters ... 10
6.2.3 Eco Mode ... 10
6.3 Alarm Signals ... 10

7. Thermostat– Carel iJW – Thermostat Parameters ... 11

7.1. Thermostat Settings ... 12
7.2. Programming Instructions ... 13
7.3. Alarm Signals ... 14

8. Scheduled maintenance ... 15

8.1. Monthly ... 15

9. Trouble Shooting ... 16

10. Electrical Diagram – Carel PJEASY Thermostat ... 17

10.1. Wiring Diagram – Carel PJEASY Thermostat ... 18

11. Electrical Diagram – Carel iJW Thermostat ... 19

12. Spare Parts List ... 20

13. Certificate of Warranty ... 21

14. Manufacturer's Checklist ... 22

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Part No: 68001002
No 003-9,2 July 2025

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.

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 and Heat Recovery equipment in three 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 Siberian system chiller is supplied with the following features as standard:

- Rotationally moulded inner & outer polypropylene tank offering long life and corrosion resistance
- The tank is insulated with environmentally responsible, water blown non-CFC polyurethane insulation
- A second thermostat probe is attached to the evaporator suction line. This probe will shut down the refrigeration system should the suction line temperature drop below normal operating conditions

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Part No: 68001002
No 003-9,2 July 2025

- Air tight design of the tank & lid, keeps condensation to a minimum to eliminate dilution of the glycol solution
- Tank molded legs allow easy cleaning under the unit once installed
- Semi-submersible, single phase pumps
- Available for R134a, R404a and R488a refrigerants. Consult factory for other options.
- Offers low installation, operating and maintenance costs due to single phase (230V 50Hz) power requirement to operate both the refrigeration and pump(s)
- CE Mark

4.2 Specifications

Dimensions	
Width	581 mm
Depth	581 mm
Height	1200 mm
Weight (2 pump SPK4-11)	
Shipping	83 kg
Empty	80 kg
Operating	240 kg
Refrigerant Connections	
Suction Line	28.5mm
Liquid Line	9.5mm
Tank Capacity	160 litres
Thermostat	Carel PJEASY or Carel iJW 2HP RELAY
Power Requirements	Single Phase 230V / 50 Hz (amps dependent on pump configuration)
Max total head per the following pump configurations:	
SPK 2-11	50 metres
SPK 4-11	58 metres

4.3 Options

- Pump(s):
  - SPK2-11
  - SPK4-11
- Cooling Cassettes, 3 kW, 5 kW, 8 kW, 10 kW @ -10°C SST.
- Glycol Manifolds complete with back check valves and ball valves.
- Glycol refractometer.

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Part No: 68001002
No 003-9,2 July 2025

- External Glycol returns safety solenoid.
- Refrigerant R404a and R448a.

5. Installation

5.1 Receiving

Each unit is tested and thoroughly inspected before shipment. At time of shipment, the carrier accepts the unit, and any claim for damages must be made with the carrier. Upon receiving units from the delivering carrier, carefully inspect carton for any visible indication of damage. If damage exists, have the carrier note this on the bill of lading and file a claim with the carrier.

	**CAUTION**	**UNIT IS HEAVY; USE CORRECT MANUAL HANDLING TECHNIQUES AND EQUIPMENT.**

5.2 Unpacking

Carefully unpack the Hoshizaki Lancer Siberian system chiller from the shipping carton.

5.3 Selecting a Location

- Unit is for indoor use only unless suitably protected by a weatherproof enclosure.
- The Hoshizaki Lancer Siberian system chiller should be located in a well-ventilated area that will allow easy access for servicing.
- Install on a flat, level surface.
- Ensure the maximum tilt of the machine does not exceed 2 degrees in any direction
- Should only be installed by a qualified and competent technician.
- 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 the 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 Refrigeration Connection

- As with all installations, good refrigeration practice is necessary to ensure reliability and satisfactory performance of the Hoshizaki Lancer Siberian™ system chiller.

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Part No: 68001002
No 003-9,2 July 2025

- All units have a holding charge of Nitrogen. Ensure the solenoid is active prior to evacuation. Failure to do so may result in poor evacuation of the refrigeration system and possible system failure.
- Solenoid can be activated by switching on pumps and making sure thermostat output is calling for refrigeration. It may be necessary to remove pump IEC plug to avoid excessive dry running during the evacuation procedure.
- Particular care should be taken to prevent oxidation during brazing, by using dry nitrogen and to ensure that a thorough evacuation of the system is carried out prior to gas charging.
- We recommend that isolating valves are fitted to the refrigerant pipes adjacent to the unit and that the refrigeration be connected to a dedicated and correctly sized condensing unit.
- Fully insulate suction line.

	**NOTE**	**Remember one of the main factors affecting equipment reliability and compressor service life is contamination.**

5.5 Connecting Glycol Lines

- Connect glycol lines from the manifolds to the Hoshizaki Siberian system chiller.
- Supply manifold direct to pump(s).
- Return manifold to glycol return pipe via return solenoid if required.
- After leak checking, ensure lines are fully insulated.

5.6 Electrical Connection

- This unit is connected to the supply via a 10 amp flexible cord fitted with a Splashproof IP66 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**	**This unit must be electrically grounded (earthed) to avoid possible fatal electrical shock or serious injury to the operator. Electrical connection must be made in accordance with the appropriate local codes and regulations.**
	**WARNING**	**If the supply cord is damaged it must be replaced by the manufacturer, it's service agent or similarly qualified persons in order to avoid a hazard.**

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Part No: 68001002
No 003-9,2 July 2025

⚠	**CAUTION**	**In order to avoid a hazard due to inadvertent resetting of the thermal cut out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.**

5.7 Filling Unit with Glycol / Water

⚠	**CAUTION**	**Ensure glycol is added first, then water, prior to starting the refrigeration system – failure to do so will cause severe damage to the plate heat exchanger and refrigeration system, and will void all warranty.**

The Hoshizaki Lancer Siberian system chiller requires a 30% glycol / water mixture (see concentration chart on page 11 for details). Put 48 litres of glycol in the tank and fill with water until the glycol / water mixture reaches the over flow.

The overflow should be plumbed away to a suitable drain or container, via a Goose neck connection.

⚠	**CAUTION**	**Only use propylene glycol for freeze point depression. The use of other chemicals may damage equipment and pose a health risk.**

5.8 Commissioning

- Ensure refrigeration condensing unit is turned off to prevent heat exchanger plate becoming too cold and freezing glycol on initial return.
- Turn power on to the Hoshizaki Lancer Siberian system chiller.
- Turn pump(s) on and allow the python glycol lines to fill. Ensure liquid level does not drop below pump intake during initial filling of python.

NOTE:

If equipped with dual pumps then Pump 1 must be ON for system to operate properly.

- As required, top up the unit with a premixed 30% glycol / water mixture to correct level.
- Check water / glycol mixture with refractometer.
- Turn on refrigeration condensing unit. If glycol bath temperature is above the set point of the thermostat the refrigeration solenoid should be operational.
- Check all connections for leaks.

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Part No: 68001002
No 003-9,2 July 2025

- Monitor the indicated temperature on the thermostat and ensure temperature reduces to the set point.
- While the refrigeration system is operating, monitor the evaporator suction line temperature via the probe 2 by pressing and holding the Arrow down button. Record the lowest temperature and then set the AF parameter 5° below this reading. This will ensure protection of the HX plate and refrigeration system in the event of a pump failure or freeze up.

NOTE:

1. The thermostat has a minimum compressor “OFF” time of 3 minutes to prevent short cycling. Temperature & differential settings should be such that the number of compressor starts does not exceed the manufactures recommendations.
2. The Thermostat will not be energised unless a pump switch is turned on.

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Part No: 68001002
No 003-9,2 July 2025

6. Thermostat– Carel Pjeasy – Thermostat Parameters



NOTE:

The Thermostat will not be energised unless a pump switch is turned on.

6.1. Thermostat Settings

Parameter	Type	Def	Description
St	Set point	-2.0	Refrigeration will turn off when glycol reaches this temperature.
rd	F	1.0	Temperature differential, glycol temperature will increase from the cut out point by this value before the refrigeration turns on.
AF	F	-5.0	Antifreeze alarm set point. If the evaporator suction line reaches this temperature the control will stop the refrigeration system and will require a manual reset. Antifreeze alarm can be reset by holding “UP” and “DOWN” keys for 5 seconds. In case of probe 2 failure, the antifreeze alarm function is inhibited and regulation is still performed. If “AF parameter is set to its minimum value the alarm function is inhibited.
rt	F	**	Time (in hours) of max/min temperatures logging.
rH	F	**	Highest/ maximum recorded temperature.
rL	F	**	Lowest/ minimum recorded temperature.
AH	F	20.0	High temperature alarm (relative to set point).
AL	F	4.0	Low temperature alarm (relative to set point).
c2	F	3 mins	Minimum time in mins after turning off before the control will give an output to the refrigeration solenoid (short cycle protection).
r4	F	7.0	Value to increase the set point in ECO mode.
r2	F	5.0	Maximum allowed set point.
r1	F	-5.0	Minimum allowed set point.

Controls programmed during manufacture.

All other non used parameters are hidden to avoid confusion.

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Part No: 68001002
No 003-9,2 July 2025

6.2 Programming Instructions

6.2.1 Set Point

Push and hold the “SET” key, “st” is displayed then the current set point is displayed and flashes, release “SET” key to change the set point value.

Push the “UP” or “DOWN” arrow keys to change the set point value.

To accept the new value press the “SET” key or wait 60 seconds without pressing any keys for the unit to time out.

6.2.2 Other Parameters

Push and hold the “SET” key, until “rd” is displayed.

- Select the required parameter to change using the “UP or “DOWN arrow keys then press the “SET” key to display its value.
- Press the “UP” or “DOWN” key to change its value.
- Press the “SET” key to store the new value and move to the next parameter.

To exit from programming mode press the “SET” key for 3 seconds or wait 60 seconds without pressing any keys for the unit to time out.

6.2.3 Eco Mode

In the ECO mode an offset is added to the Set point: “St” + “r4”.

To set the ECO mode press and hold the “UP” key, “on” or “oF” is displayed showing how ECO mode will be changed, when “on” or “oF” disappears release key. In ECO mode “Ec” is displayed alternated to probe 1, Glycol temperature actual value.

6.3 Alarm Signals

When an alarm is activated, the display shows the corresponding message that flashes alternating with the temperature.

Message	Cause	Reset
“E0”	Glycol Probe Failure	Automatic
“E1”	Refrigeration Line Probe Failure	Automatic
“LO”	Low Temperature Alarm	Automatic
“HI”	High Temperature Alarm	Automatic
“AF”	Antifreeze Alarm	Manual Antifreeze alarm can be reset by holding “UP” and “DOWN” keys for 5 seconds.

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Part No: 68001002
No 003-9,2 July 2025

7. Thermostat– Carel iJW – Thermostat Parameters

The iJW control maintains the existing functions of the PJEASY controller, while adding BLUETOOTH and NFC connectivity.



Installers can use their smartphone with the APPLICA app. for configuration, testing and maintenance of the controller.

End users can optimise everyday tasks (such as recording HACCP data) through the CONTROLLA app.

Download Applica app to your smart phone to access advanced parameters and functions

GET IT ON Google Play
Download on the App Store
Applica

NOTE: The Thermostat will not be energised unless a pump switch is turned on.

Keypad & Icons Functional Descriptions			
Keypad	**Description**	**On**	**Flashing**
	Defrost	On	Delay Activated
	On/Off	Turn On/ Off Controller	
	Set point	Modify Temperature / % Humidity	
	Up Arrow	**Tap** - Increase value - Scroll menu & parameters **Long Press** - Turn On/ Off Aux functions	Press Enter to select Up button Flashes 3 seconds when turns Off
	Program	**Press Once:** - Enter Menu - Select Function & Confirm selection **Press for 3 seconds** - Enter Programming mode	
	Down Arrow	**Tap** - Decrease value - Scroll Menu & arameters **Long Press** - Turn On/ Off Aux functions	Press Enter to select Flashes 3 seconds when Off
Icons	**Description**	**On**	**Flashing**
	Compressor	Active	Delay Activated
	Evaporator Fan	Active	Delay Activated
AUX	Auxiliary	Active	Delay Activated
°C/F	Temperature	Unit of Measure Temperature	
%RH	Relative Humidity	Unit of Measure Humidity	
	HACCP Alarms	Active HACCP Alarms	
	Service/ Maintenance	Active Alarms	

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Part No: 68001002
No 003-9,2 July 2025

7.1. Thermostat Settings

The table below shows specific settings for the unit.

Control level settings can be accessed through the iJW control display.

App based settings can only be access by using the Carel Applica app.

Parameter	Type	Value	Description
St	Control	-2.0	Refrigeration will turn off when glycol reaches this temperature.
rd	Control	1.0	Temperature differential, glycol temperature will increase from the cut out point by this value before the refrigeration turns on.
AF	App.	-5.0	Antifreeze alarm set point. If the evaporator suction line reaches this temperature the control will stop the refrigeration system. This function is auto reset once the temperature is above this temperature setting and c2 value has been reached.
AFd	App.	0	Frost protection alarm delay time.
AH	Control	20.0	High temperature alarm (relative to set point).
AL	Control	4.0	Low temperature alarm (relative to set point).
c1	Control	5 min	Min time between consecutive compressor starts
c2	Control	3 mins	Minimum time in mins after turning off before the control will give an output to the refrigeration solenoid (short cycle protection).
r3	App.	1	Control mode: 0 = direct with defrost; 1 = direct; 2 = reverse
r4	App.	7.0	Value to increase the set point in ECO mode.
r4d	App.	4	Temperature control differential in ECO mode
r2	Control	5.0	Maximum allowed set point.
r1	Control	-5.0	Minimum allowed set point.
/Fq	App	2	Assign frost protection temperature probe
GFA_2	App.	15	Generic alarm function, control probe 2

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Part No: 68001002
No 003-9,2 July 2025

7.2. Programming Instructions

7.2.1. Set Point

Tap ⊙ until 🌡 appears in the bottom left corner of the screen

Press 🌡 for current Setpoint

Press ▲ or ▼ to adjust Setpoint

Press ⊙ to confirm and exit

7.2.2. To enter the controller level Parameters

Press and hold ⊙ until “PSD” appears on screen

Press ▲ or ▼ to scroll through the categories

Push ⊙ to select category

Press ▲ or ▼ to scroll through the parameters

Press ⊙ to modify parameter

Press ▲ or ▼ to change value

Press ⊙ to confirm change

Press ▲ or ▼ to scroll until “ESC” to exit program

7.2.3. Eco Mode

In the ECO mode an offset is added to the Set point: “St” + “r4”.

To enable ECO mode:

Press and hold ⊙ until “PSD” appears on screen

Press ▼ to scroll until “Fr” appears

Press ⊙ to select

Press ▼ to scroll until “ECO” appears

Press ⊙ to select and modify

Change value to “ON” to enable

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Part No: 68001002
No 003-9,2 July 2025

7.3. Alarm Signals

When an alarm is activated, the display shows the corresponding message that flashes alternating with the temperature.

Display code	Log code(*)	Description	Delay (default)	Icon display	Alarm relay	Buzzer	Reset	Effects on control
Afr	29	Frost protection	Afd (1 min)	YES	YES	YES	Automatic	Stop compressor
AtS	30	Restart in pump down		NO	NO	NO	Automatic	
CE	28	Configuration write error		NO	NO	NO	Automatic	
cht	17	High pre-alarm Condenser temperature		NO	NO	NO	Automatic	
CHt	18	High conductivity Condenser temperature	Acd (O min)	NO	NO	NO	Manual	Compressor shutdown
dA	14	Delayed alarm from external contact	A7 (1 min)	YES	YES	YES	Automatic	Compressor operation in duty setting mode (par. A6); dead band, lights and auxiliary output OFF
dor	15	Door open	Add (5 s)	YES	YES	YES	Automatic	See "Door management"
EI	1	Probe 1 faulty or disconnected		NO	NO	NO	Automatic	
E2	2	Probe 2 faulty or disconnected		NO	NO	NO	Automatic	
E3	3	Probe 3 faulty or disconnected		NO	NO	NO	Automatic	
E4	4	Probe 4 faulty or disconnected		NO	NO	NO	Automatic	
ES	5	Probe 5 faulty or disconnected		NO	NO	NO	Automatic	
EHi	36	High temperature alarm power supply		YES	YES	YES	Automatic	
ELO	37	Low pressure alarm power supply		YES	YES	YES	Automatic	
Etc	9	Clock error		NO	NO	NO	Manual	Time bands disabled
GHI	19	Generic alarm high threshold	GFA_De (0 s)	YES	YES	YES	Automatic	
GLO	20	Generic alarm low threshold	GFA_De (0 s)	YES	YES	YES	Automatic	
HA	21	Type HA HACCP alarm (high temp. during operation)		NO	NO	NO	Manual	
HF	22	Type HF HACCP alarm (high temp. after blackout)		NO	NO	NO	Manual	
HI	24	High temperature	Ad (120 s)	YES	YES	YES	Automatic	
IA	13	Immediate alarm from external contact		YES	YES	YES	Automatic	Compressor operation in duty setting mode (par. A6); dead band OFF
LO	23	Low temperature	Ad (120 s)	YES	YES	YES	Automatic	
LP	32	Low pressure		YES	YES	YES	Semi-auto-matic	Compressor shutdown
MAn	38	Output status overridden in manual mode		YES	YES	YES	Automatic	
rE	12	Control probe faulty or disconnected		YES	YES	YES	Automatic	Compressor operation in duty setting mode (par. c4); dead band OFF
rSF	31	Refrigerant leak alarm		YES	YES	YES	Manual	Switch off all
SF	27	Configuration not completed correctly		NO	NO	NO	Manual	
SrC	35	Maintenance request		YES	YES	YES	Manual	

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Part No: 68001002
No 003-9,2 July 2025

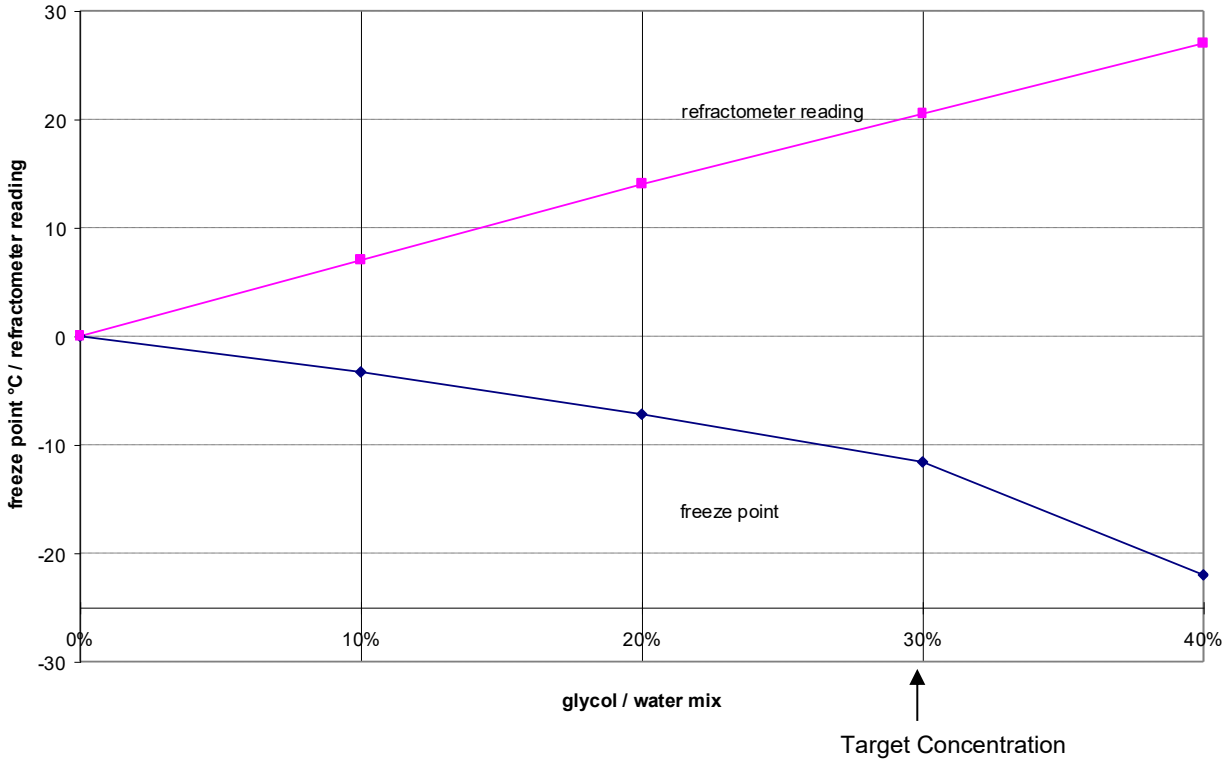
8. Scheduled maintenance

8.1. Monthly

Check water/glycol level.

Check water/glycol concentration using refractometer (see chart).

Relative freeze points and refractometer readings for propylene glycol / water mix



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Part No: 68001002
No 003-9,2 July 2025

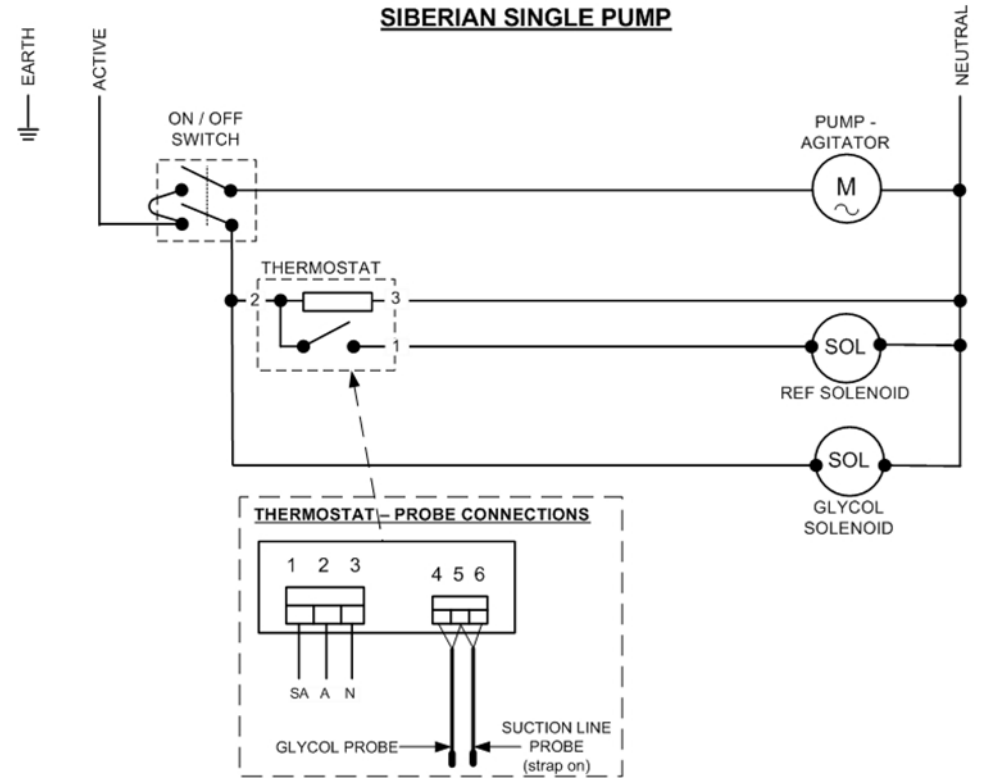
9. Trouble Shooting

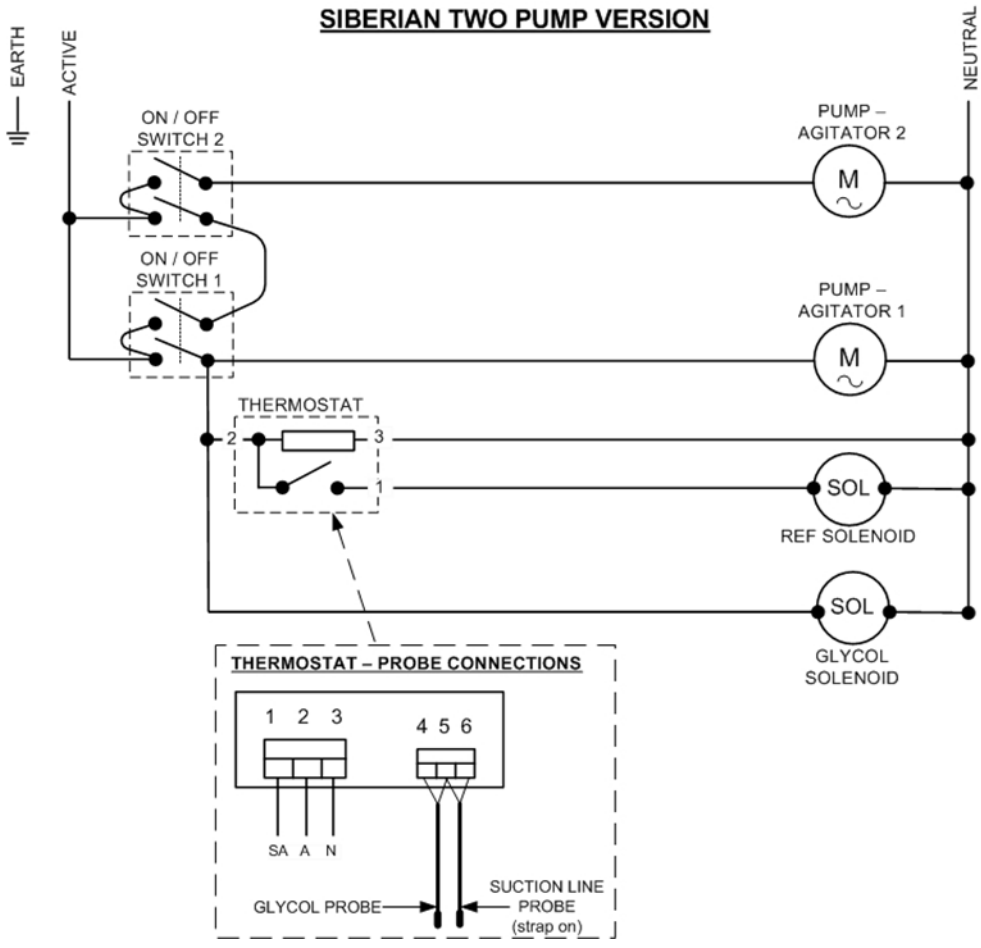
TROUBLE	CAUSE	REMEDY
Condensing unit will not start.	Power Failure Pumps not active Thermostat probe failure Solenoid coil failure	Check for blown circuit breaker or cord pulled out. Replace Replace solenoid
Beer Warm	Glycol bath temp outside control set points Suction line hand valve (if fitted) is closed Faulty glycol pump Faulty TX valve Incorrect glycol concentration (poor agitation)	Check set points Open hand valve Replace pump Replace TX valve Check with refractometer & adjust
No product flow	Thermostat set too low Frozen product line	Adjust set point Switch off refrigeration while leaving pumps running & allow thawing. Some beers will freeze when set temp below -2.5^{0}C
Noise evident	Noisy pump	Replace/repair pump
No glycol flow	Frozen HX plate Low glycol level Low glycol %	Adjust set point System leak Add glycol

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Part No: 68001002
No 003-9,2 July 2025

10. Electrical Diagram – Carel PJEASY Thermostat

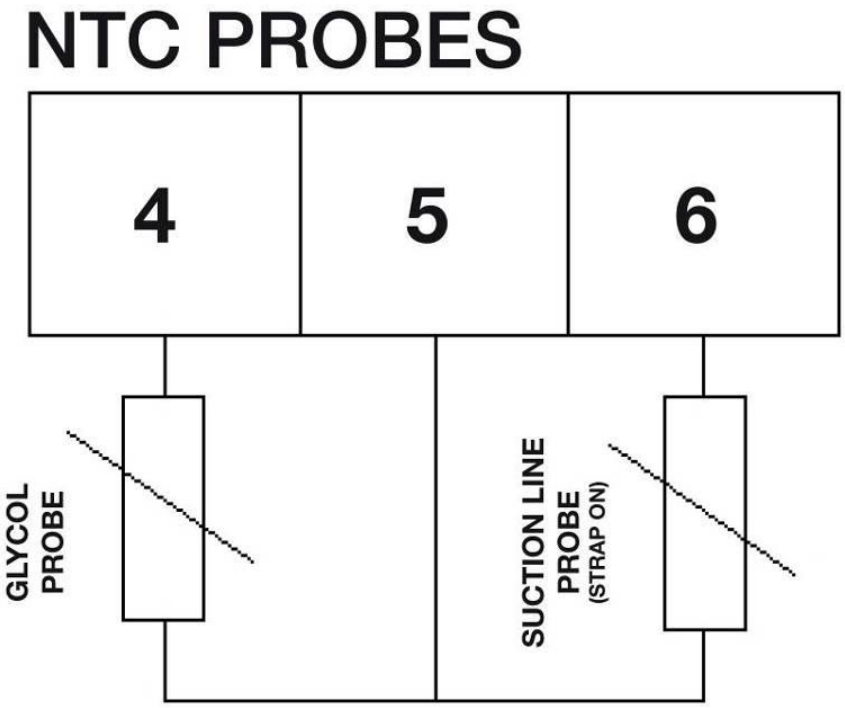




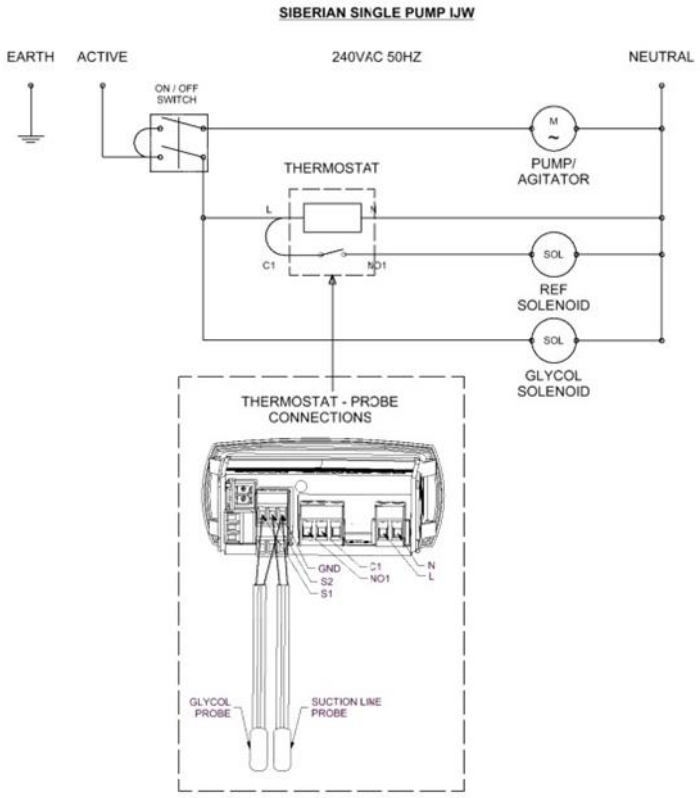
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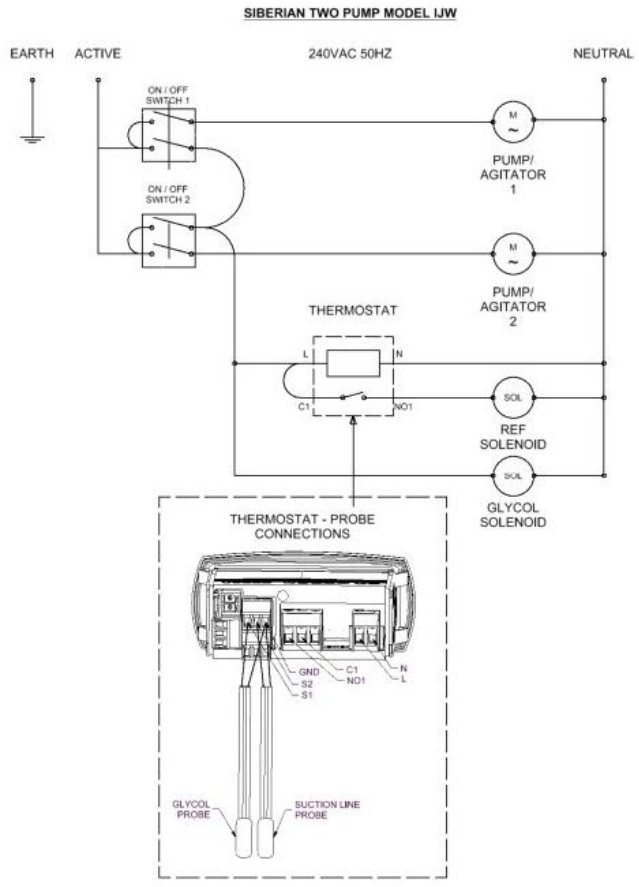
Part No: 68001002
No 003-9,2 July 2025

10.1. Wiring Diagram – Carel PJEASY Thermostat



11. Electrical Diagram – Carel iJW Thermostat





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Part No: 68001002
No 003-9,2 July 2025

12. Spare Parts List

PART NUMBER	DESCRIPTION
78000029	Pump SPK2-11 Poly Siberian
78000027	Pump SPK4-11 Poly Siberian
83000468	Thermostat Carel PJEASY
83000963	THERMOSTAT iJW 2HP RELAY
87000050	Solenoid Valve EVR3 – 3 & 5 kW
87000051	Solenoid Valve EVR6 – 8 & 10 kW
35000028	Solenoid Valve – Glycol Return
83000101	Coil – Solenoid Valve
87600227	TX Valve – R134a – 10kW
87600227	TX Valve – R134a – 8kW
87600226	TX Valve – R134a – 5kW
87600225	TX Valve – R134a – 3kW
87600222	TX Valve – R404A – 3 kW
87600223	TX Valve – R404A – 5 kW
87600224	TX Valve – R404A – 8 kW
87600224	TX Valve – R404A – 10 kW
87600220	TX Valve – R22 – 5 kW
87600220	TX Valve – R22 – 8 kW
87600221	TX Valve – R22 – 10 kW
87000178	TX Valve – R448A (Requires Orifice)
87000174	Orifice 01 – 3kW R448A
87000175	Orifice 03 – 5kW R448A
87000172	Orifice 04 – 8kW R448A
87000173	Orifice 05 – 10kW R448A
83000102	Switch D.P.S.T (Older Models)
83600701	Rubber Boot (Switch) (Older Models)
83000360	Switch Rocker DPST
83000246	Sealing Boot Switch Rocker
83000306	IEC Lead FEM 300mm
83000307	IEC Lead FEM 1200mm
83000308	IEC Lead MALE 300mm

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Part No: 68001002
No 003-9,2 July 2025

13. 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

Hoshizaki 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 Hoshizaki 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

Hoshizaki 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 Hoshizaki Lancer or its sub-contractor.

Labour

Hoshizaki Lancer will not normally cover any labour costs associated with a warranty claim. Subject to the approval of the Divisional Sales Manager, Hoshizaki 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 Hoshizaki Lancer prior to the work being undertaken

Exclusions

Hoshizaki 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 Hoshizaki Lancer, the equipment has been used in a situation the equipment has not been designed for;
b. If in the opinion of Hoshizaki 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;
d. Where the product is installed, maintained or operated otherwise than in accordance with the instructions supplied by Hoshizaki 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 Hoshizaki Lancer or its nominees or using other than Hoshizaki Lancer approved replacement parts.

Hoshizaki Lancer reserve the right to change specifications without notice

Part No: 68001002
No 003-9,2 July 2025

14. Manufacturer's Checklist

- ☐ Evacuate, charge with nitrogen and leak check all refrigeration components.
- ☐ Liquid line and glycol solenoid installed in the correct flow direction.
- ☐ TX valve refrigerant matches unit.
- ☐ TX valve sensing bulb is secured tightly and in correct position, TX valve capillary not rubbing on anything.
- ☐ Air tape around TX bulb.
- ☐ Turn on unit, check thermostat operates and solenoids energise.
- ☐ Glycol probe in correct position and suction line probe checked for sensor tightness.
- ☐ Confirm operation of glycol probe, check for temp change. As per SOP-PRD-094
- ☐ Check pumps operate.
- ☐ Check wiring to ensure no internal insulation is exposed.
- ☐ All refrigeration tube work straight and not rubbing on other components.
- ☐ Installation kit supplied.
- ☐ Decals and Serial number plaque correctly positioned.
- ☐ Tank area clean.
- ☐ Supply manual.
- ☐ All screws secure, ensure deck and lid are fully sealed.
- ☐ Supply original checklist to unit, file copy.

Electrically Tested By: .....

Inspection Number: .....

- ☐ Electrical Continuity
- ☐ Earth Continuity
- ☐ Insulation

Checked by:..... Date: ....

Work Order No: .....

Affix label here

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