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Bergs Chillers Manual - The Double Chiller

Introduction

This manual contains information relating to the installation, troubleshooting, operation, and maintenance of "The Double" Standalone Chiller, an integrated cooling system where both the heat exchangers and compressors are housed within a single consolidated unit, designed for simplified installation and operation in situations where space consolidation is preferred or required. Instructions in this manual must always be followed to ensure safety, optimal performance, and warranty validity. Failure to comply with these recommendations will invalidate the warranty. Should you have any questions or require technical support, call the Bergs recovery office to speak to our team. Detailed installation instructions are provided in the separate *Bergs Chillers Installation Manual - The Double Chiller* (see Section 5).

Current Date: March 24, 2025

Quick Start Guide

1. Ensure "The Double" is installed by a licensed electrician per the *Installation Manual*, with nitrogen charge and refrigerant verified.
2. With the filter pump circulating water at 40-100 lpm, connect power, turn on the unit, and set the desired temperature (default: 8°C).
3. Run continuously until the target temperature is reached, then monitor automatic operation.
4. Perform six-monthly maintenance as outlined in Section 6 to maintain performance and warranty.

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1. Specifications

1.1 The Double

- **Description:** "The Double" unit means an integrated chiller system where both the heat exchangers and compressors are housed within a single consolidated unit, designed for simplified installation and operation in situations where space consolidation is preferred or required.
- **Size and Dimensions:**
    - Length: 1500 mm

    - Width: 750 mm
    - Height: 750 mm
    - Weight (Net): 118 kg
- **Technical Information:**
    - Compressor Horsepower: 4
    - KW Rating: 9.29
    - Number of Fans: 2
    - Fan Diameter: 400 mm
    - Fan Air Flow: 7400 m³/h
    - Receiver Capacity @ 80%: 2x6 kg (12 kg total)
    - Refrigerant Type: R404a
    - Heat Exchanger: Titanium shell tube, 40 mm fitting
    - Flow Rate: 40-100 lpm (litres per minute)
- **Power Information:**
    - Compressor Phase: 1 or 3
    - Compressor Supply: 230V
    - Compressor MOC (Maximum Operating Current): 22.8 A
    - Fan Phase: 1
    - Fan Electrical Supply: 240V
    - Fan Electrical Hertz: 50 Hz
    - Fan MOC: 1.64 A
    - Sound Power Level: 77 dBA
- *Note: These specifications are approximate and subject to change. Refer to the unit's nameplate for final confirmation.*

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2. Key Pre-Installation Notes

Before beginning installation of "The Double," ensure the following:

- The chiller is placed on a level concrete pad in the designated installation area.
- All minimum clearances are maintained for proper ventilation and operation (rear: 300 mm, sides: 750 mm each, front: 1500 mm, above: 500 mm).
- Installation is completed by licensed professionals in accordance with local and state laws.

2.1 Airflow Clearances

- Minimum rear clearance: 300 mm
- Minimum side clearance: 750 mm
- Minimum front clearance: 1500 mm
- *Note:* These clearances ensure "The Double" achieves its rated airflow of 7400 m³/h from two 400 mm fans.

2.2 Plumbing Installation

- Ensure "The Double" is connected to the return side of the pool/spa's water flow.
- Compatible with 40 mm or 50 mm PVC pressure-rated pipe fittings.
- Use barrel unions for easy maintenance (tighten by hand).
- Apply plumber's tape and check O-rings for a watertight seal.
- Install support brackets where necessary to prevent pipe movement and maintain the 40-100 lpm flow rate.

2.3 Electrical Connection

- ⚠ **NOTE:** Electrical installation must be completed by a licensed electrician and comply with all Australian Standards and local laws.
- Cable gland provided for new cable entry.
- Check machine specifications for maximum current requirements (22.8 A for compressor, 1.64 A for fans).
- Terminals labelled inside the unit for connection.

2.4 Initial Startup & Commissioning

- ⚠ **NOTE:** The water pump must be running and water must be circulating through the chiller at 40-100 lpm for it to operate.
- The system is preset to 8°C by default.
- No programming is needed—simply select your desired temperature on the controller.

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3. Initial Cool Down Time

The initial cool-down period for "The Double" varies depending on:

- Pool size
- Environmental conditions (e.g., ambient temperature, humidity)
- Chiller capacity (9.29 kW)
- **After Installation:**
    - Run "The Double" and pool pump continuously until the desired temperature is reached; this process may take several days depending on conditions.
    - Once the set temperature is reached (default: 8°C), the unit will automatically shut off after maintaining stability for 45 minutes or more.
    - "The Double" automatically restarts when the pool temperature rises more than 1°C above the setpoint, provided the pump maintains 40-100 lpm flow.

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4. Safety Instructions

4.1 Installation

- Equipment must be placed, used, and maintained in a well-ventilated space exceeding 30 square metres in floor area. Any areas containing refrigerant piping must be in accordance with the country's applicable gas safety standards and regulations.
- Only certified professional technicians (licensed electricians) should perform any installation of "The Double." Improper handling by unqualified persons could result in serious risks, such as electrical hazards, fire outbreaks, water damage, and personal injury. No refrigeration mechanic is required due to the integrated design.

4.2 Moving and Transport

- When moving or delivering "The Double," which contains combustible refrigerants (R404a):
    - Follow all transport regulations and local authority requirements.
    - Store equipment securely as detailed in this instruction manual.
    - Observe all warning labels and symbols on the packaging.
    - Handle with care to prevent damage and avoid potential refrigerant escape.
- **Caution:** Not suitable for potable water.

General Safety (Not Numbered in Original, Added for Clarity)

- A Residual Current Device (RCD) rated at 30 mA must be installed for the unit.
- Ensure "The Double" has a good power connection and earthing to avoid the risk of electrical shocks.
- The unit must be stored in a room without any continuously operating ignition sources (e.g., open flames, or an operating gas appliance).
- Do not pierce or burn the unit, as it contains 2x6 kg (12 kg total) of R404a, a flammable refrigerant that may not contain an odor.
- If the supply cord is damaged, it must be replaced by a qualified service agent.
- This appliance must be installed in accordance with national wiring regulations.
- Before obtaining access to terminals, all supply circuits must be disconnected.
- The electrical installation must include a double-pole isolation switch featuring minimum contact gaps of 3 mm across each pole. Given that leakage current could surpass 10 mA, a 30 mA rated RCD must be fitted. The disconnection system should be permanently integrated into the fixed wiring setup, complying with established electrical wiring regulations.

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5. Installation

- **See Installation Manual:** For detailed instructions on installing "The Double," including system setup, location, airflow clearances, water flow, plumbing, electrical connections, and initial start-up, refer to the separate *Bergs Chillers Installation Manual - The Double Chiller*. Installation must be performed by a licensed electrician.

5.12 Operation Instructions

- **To change the temperature:**
  - Press and hold "SET" on the controller.
  - Use the up and down touchpad to set the desired temperature.
  - Press "SET" again to confirm.
- The controller for "The Double" is preset to 8°C by default, requiring no additional programming beyond selecting the desired temperature.

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6. Six-Monthly Maintenance

Perform the following major service schedule every six months to ensure "The Double" operates efficiently and maintains warranty coverage:

6.1 Operational Assessment

1. Pre-Service Inspection

- **Visual Inspection:**
  - Check for any visible leaks, corrosion, or damage on "The Double" unit.
  - Inspect insulation and refrigerant lines for wear or degradation within the integrated system.
  - Verify that all fasteners and mounting hardware are secure on the 118 kg unit.
- **Electrical System:**
  - Inspect all wiring, connections, and terminals for wear or loose connections.
  - Check voltage (230V single or three-phase) and amperage draw on compressors (22.8 A) and fans (1.64 A).
  - Test safety switches and sensors for proper functionality.
- **Control System:**
  - Verify correct operation of thermostats and digital controllers.
  - Check and calibrate temperature probes if readings are inconsistent with the setpoint (e.g., 8°C).

6.2 Safety Inspections

2. Refrigeration System

- **Refrigerant Level & Leak Detection:**
  - Measure refrigerant pressure to ensure 2x6 kg (12 kg total) R404a at 80% capacity.
  - Conduct a leak test using an electronic leak detector suitable for R404a.
  - Inspect sight glass for signs of moisture or contaminants.
- **Evaporator & Condenser Coils:**
  - Clean condenser coils with a fin brush or coil cleaner to maintain 7400 m^3/h airflow from 2x 400 mm fans.
  - Inspect and clean evaporator coils for ice buildup or dirt.

3. Water Circuit & Heat Exchanger

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- **Pump & Filtration System:**
  - Inspect and clean the water pump, ensuring proper operation at 40-100 lpm flow.
  - Check water filter cartridges; replace if dirty or clogged to sustain flow.
- **Heat Exchanger:**
  - Descale and flush the titanium shell tube heat exchanger (40 mm fitting) to remove mineral buildup.
  - Inspect for corrosion or leaks in the exchanger.
- **Piping & Connections:**
  - Check all hoses, fittings, and seals for leaks at 40-100 lpm flow.
  - Ensure proper insulation is intact on cold water lines.

4. Airflow & Ventilation

- **Fans & Motors:**
  - Check and clean fan blades (2x 400 mm) to ensure efficient airflow (7400 m^3/h).
  - Inspect motor bearings for wear; lubricate if necessary.
- **Ventilation Clearance:**
  - Ensure adequate airflow around "The Double" to prevent overheating (clearances: 1500 mm front, 750 mm sides, 500 mm above, 300 mm rear).
  - Remove any obstructions or debris near vents.

5. Temperature Calibration

- Run the system and ensure "The Double" reaches the target temperature efficiently (default 8°C).
- Adjust settings if necessary for optimal performance at 40-100 lpm flow.

6. Final System Testing & Documentation

- **Operational Testing:**
  - Run "The Double" under load and monitor performance at 40-100 lpm water flow.
  - Check cycle times and ensure consistent temperature drop to the setpoint.
- **Service Log Update:**
  - Record refrigerant levels (2x6 kg @ 80%) and electrical readings (22.8 A compressor, 1.64 A fans).
  - Note any repairs or parts replaced during the service.
- **Customer Report & Recommendations:**
  - Provide a summary of findings and any recommended actions to the owner.
  - Suggest any necessary repairs or adjustments before the next service (e.g., coil cleaning frequency).

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7. Safety Procedures

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7.1 Work Area Safety Assessment

- Before starting any work on "The Double," which contains flammable refrigerants (R404a), conduct safety checks to minimise ignition risks. When repairing refrigeration systems, follow these safety precautions before beginning work.
- Brief all maintenance personnel and others in the vicinity about the nature of work. Avoid working in confined spaces. Section off the workspace and ensure the area is safe by removing flammable materials.

7.2 Working with Flammable Refrigerants

- No technician working on "The Double" refrigeration system should expose pipework containing flammable refrigerant (R404a) while using potential ignition sources, as this creates fire or explosion risks. Keep all ignition sources, including lit cigarettes, well away from the work area where refrigerant could potentially be released. Survey the area for flammable hazards or ignition risks before beginning work. Display "No Smoking" signs prominently.

7.3 Refrigerant Charging Procedures

- Beyond standard charging procedures, follow these requirements for "The Double":
    - Prevent cross-contamination of different refrigerants when using charging equipment.
    - Use shortest possible hoses and lines to reduce refrigerant volume.
    - Maintain cylinders in upright position.
    - Earth the refrigeration system before charging the 2x6 kg (12 kg) R404a.
    - Apply system labels upon completion (if not already present).
    - Take extra precautions against system overfilling.
    - Pressure test the system with Oxygen-Free Nitrogen (OFN) before recharging. Complete leak testing after charging but before commissioning. Perform follow-up leak check before leaving site.

7.4 Electrical Device Inspection

- Maintenance and repairs of electrical components on "The Double" must include initial safety checks and component inspections. If safety-compromising faults are found, isolate power until resolved. For faults requiring delayed repair but continued operation, implement suitable temporary solutions and notify the equipment owner.
- **Initial Safety Checklist:**
    - Safe capacitor discharge to prevent sparking.
    - No exposed live electrical components or wiring during system charging, recovery, or purging.
    - Verified earth bonding continuity.

7.5 Leak Detection Requirements

- Acceptable detection methods for "The Double" flammable refrigerant system (R404a):

    - Use electronic leak detectors (note: may need sensitivity adjustment or recalibration).
    - Calibrate detection equipment in refrigerant-free areas.
    - Ensure detector won't create ignition and suits R404a.
    - Set detection equipment to appropriate percentage of refrigerant LFL (Lower Flammability Limit).
- Most leak detection fluids are suitable, but avoid chlorine-containing detergents.
- Remove/extinguish all naked flames if a leak is suspected.
- For leaks requiring brazing, first recover all system refrigerant (2x6 kg R404a).

7.6 Refrigeration Equipment Verification

- When replacing electrical components on "The Double," ensure they meet specifications and manufacturer guidelines. Consult Bergs technical support if uncertain. For flammable refrigerant installations, verify:
    - Room size suits refrigerant charge volume (2x6 kg R404a).
    - Ventilation systems operate properly without obstruction.
    - Check secondary circuits for refrigerant presence in indirect systems.
    - All markings remain clear and legible—replace if unclear.
    - Refrigerant-containing components are protected from corrosive substances unless inherently resistant.

7.7 Repairs to Sealed Components

- When repairing sealed components on "The Double":
    - Disconnect power before opening sealed covers.
    - If power is essential during servicing, use permanent leak detection at critical points.
    - Take particular care not to damage component housings and compromise protection ratings.
    - Ensure seals and sealing materials haven't degraded.

7.8 Intrinsically Safe Component Repairs

- Don't apply permanent inductive or capacitive loads to the circuit without ensuring voltage and current limits remain safe. Intrinsically safe components are the only types workable while live in flammable atmospheres (R404a). Test equipment must be correctly rated.

7.9 Cabling Requirements

- Check that cabling on "The Double" won't be subject to:
    - Wear and tear
    - Corrosion
    - Excessive pressure
    - Vibration
    - Sharp edges
    - Other adverse effects

- Consider ageing impacts and compressor/fan vibrations (2x 400 mm fans) on cable condition.

7.10 Removal and Evacuation

- When accessing the refrigerant circuit of "The Double":
  - Remove refrigerant safely (2x6 kg R404a).
  - Purge circuit with inert gas.
  - Evacuate the system.
  - Purge again with inert gas.
  - Open circuit by cutting or brazing.

7.11 Recovery Procedures

- Use mechanical recovery equipment suitable for flammable refrigerants (R404a).
- Ensure enough cylinders are available for 12 kg recovery.
- Check all equipment is properly labelled.
- Verify recovery equipment is in good order with appropriate refrigerant usage records.
- Return cylinders to supplier with correct transfer documentation.
- Don’t mix refrigerants in recovery units or cylinders.

7.12 Decommissioning

- Before decommissioning "The Double":
  - Familiarise with equipment and operation.
  - Isolate system electrically.
  - Verify refrigerant removed (2x6 kg R404a) and system purged with inert gas.
  - Keep ventilation operating throughout.
  - Use leak detector suitable for flammable refrigerants (R404a).
  - Record any refrigerant removed.
  - Submit recovered refrigerant to appropriate supplier.

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8. Warranty

8.1 Warranty Coverage

- Bergs provides a comprehensive warranty for "The Double," offering repair or replacement of faulty equipment at its discretion. This warranty includes:
  - **First 12 Months:** Repair or replacement of defective components or units at no cost to the owner for parts or labor, provided the fault is due to a manufacturing defect, performed during AEST business hours (excluding public holidays) by Bergs or an authorised repair agent.
  - **Second 12 Months:** Replacement parts only for manufacturing defects; labor costs are the owner’s responsibility.

- **Warranty Period:** A total period of 24 months commencing from the date of installation, provided that "The Double" has been:
    - Installed by a qualified technician approved by Bergs per the *Installation Manual*.
    - Operated in accordance with the Technical Documentation (e.g., 40-100 lpm flow, proper power supply).
    - Maintained in compliance with the prescribed maintenance schedule outlined in Section 6.
- **Warranty on Replacement Parts:** Replacement parts installed under this warranty are covered for the remaining duration of the original warranty period or 12 months from the repair date, whichever is longer.
- **Australian Consumer Law Compliance:** This warranty is provided in addition to other rights and remedies available under Australian Consumer Law. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. For major failures, you are entitled to a replacement or refund and compensation for any other reasonably foreseeable loss or damage.

8.2 Warranty Exclusions

The warranty does not cover repairs or damage caused by the following external factors or circumstances:

8.2.1 External Electrical and Environmental Factors

- Faulty or incorrect external electrical wiring, inappropriate power supply, voltage fluctuations, over-voltage, or electromagnetic interference not originating from "The Double."
- Damage caused by environmental factors such as storms, fires, floods, vandalism, negligence, or natural disasters (e.g., earthquakes).

8.2.2 Improper Installation

- Damage resulting from incorrect or non-compliant installation, particularly if performed by unlicensed individuals or companies not following the *Installation Manual*.

8.2.3 Non-Bergs Accessories and Components

- Damage caused by unauthorised accessories, components, or equipment not approved by Bergs.

8.2.4 Environmental and Weathering Factors

- Damage from foreign matter entering the equipment, moisture exposure, or other external elements inconsistent with "The Double" specified operating environment.
- Normal weathering or corrosion affecting external surfaces or refrigeration coils due to atmospheric conditions.

8.2.5 Access-Related Costs

- Costs associated with accessing equipment located in restricted or unsafe areas, including additional labour, freight charges, or travel expenses for repairs outside Bergs-authorised service areas.

8.2.6 Mobile and Transportable Installations

- Equipment installed in transportable or mobile applications (e.g., caravans or boats) or relocated after initial installation.

8.2.7 Consumable Items

- Consumable items, unless proven defective at the time of purchase.

8.2.8 Operating Conditions and Misapplication

- Damage or unsatisfactory performance resulting from the operation of "The Double" outside the conditions specified in Bergs' technical literature (e.g., water flow below 40-100 lpm, incorrect voltage).
- Misapplication or misuse of the equipment.

8.3 Owner's Responsibilities

- To maintain warranty eligibility, the owner is responsible for the following:
    - Proper Operation and Regular Maintenance: "The Double" must be operated according to this manual, and routine maintenance must be carried out as recommended in Section 6.
    - Exclusions on Non-Product-Related Faults: Faults or issues not directly related to the equipment itself (e.g., external power supply issues) are not covered under this warranty.

8.4 Service Calls and Additional Costs

- If issues arise with "The Double" under warranty, the owner is required to contact Bergs. Additional Service Requests: If the owner requests service beyond what is standard under a warranty service call, they will be responsible for all associated costs if the issue falls outside of the warranty coverage.

8.5 Warranty Claims Process

- For any warranty claims:
    - **Notification:** The owner must submit a warranty claim within 48 hours of discovering an issue, using the Bergs Warranty Claim Form that includes "The Double" serial number, installation date, a description of the fault, operating conditions at the time of the fault (e.g., 40-100 lpm flow), and maintenance history.
    - **Review and Response:** Claims will be reviewed and responded to within 2 business days, including repair or replacement authorisation, if the claim is approved.

8.6 Service Timeframes

- Warranty repair or replacement services are typically provided within 2 to 10 business days, depending on the availability of necessary replacement parts and technician schedules. Bergs will make reasonable efforts to expedite service requests but cannot guarantee specific timeframes due to these factors.

8.7 Use of Preferred Technician

- To expedite the warranty repair process, the owner has the option to use their preferred technician, provided the technician holds the necessary qualifications and meets Bergs' certification standards. Bergs will coordinate with the preferred technician to facilitate repairs, aiming to minimise downtime for "The Double" and ensure compliance with warranty requirements (e.g., proper handling of 2x6 kg R404a, maintenance of 40-100 lpm flow).

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Extra Resources

6-Monthly Maintenance Checklist - The Double Chiller

Date: _____

Unit Model: The Double Chiller

Serial Number: _____

1. Pre-Service Inspection

- ☐ Check for visible leaks, corrosion, or physical damage on "The Double" unit (e.g., casing, fins, or internal piping).
- ☐ Inspect insulation and refrigerant lines within the integrated system for wear, degradation, or exposure.
- ☐ Verify all fasteners and mounting hardware are secure on the 118 kg unit, ensuring stability on its pad.
- ☐ Inspect all wiring, connections, and terminals for wear, looseness, or corrosion; ensure no exposed live components.
- ☐ Measure voltage (230V single or three-phase) and amperage draw on compressors (22.8 A) and fans (1.64 A) to confirm within specs.
- ☐ Test safety switches (e.g., RCD, isolation switch) and sensors for proper operation and response.
- ☐ Verify correct operation of thermostats and digital controllers, ensuring accurate temperature readings.
- ☐ Check and calibrate temperature probes if readings deviate from expected values (e.g., setpoint of 8°C).

2. Refrigeration System

- ☐ Measure refrigerant pressure to confirm 2x6 kg (12 kg total) R404a at 80% capacity, checking for any loss.
- ☐ Conduct a leak test using an electronic leak detector calibrated for R404a in a refrigerant-free area.
- ☐ Inspect sight glass for signs of moisture (bubbles) or contaminants in the refrigeration system.
- ☐ Clean condenser coils with a fin brush or coil cleaner to maintain optimal airflow (7400 m^3/h from 2x 400 mm fans).
- ☐ Inspect and clean evaporator coils for ice buildup or dirt, ensuring unobstructed heat exchange.

3. Water Circuit & Heat Exchanger

- ☐ Inspect and clean the water pump to ensure proper operation and consistent 40-100 lpm flow rate through the heat exchanger.

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- [ ] Check water filter cartridges for dirt or clogs; replace if necessary to maintain 40-100 lpm flow.
- [ ] Descale and flush the titanium shell tube heat exchanger (40 mm fitting) to remove mineral buildup, using appropriate descaling agents.
- [ ] Inspect the heat exchanger for corrosion or leaks, checking all surfaces and connections.
- [ ] Check all hoses, fittings, and seals for leaks or wear, ensuring integrity at 40-100 lpm flow and <10 kPa pressure drop.
- [ ] Ensure proper insulation is intact on cold water lines to prevent condensation or efficiency loss.

4. Airflow & Ventilation

- [ ] Check and clean fan blades (2x 400 mm) to ensure efficient airflow of 7400 m³/h, removing dust or debris.
- [ ] Inspect motor bearings for wear or noise; lubricate with appropriate grease if necessary.
- [ ] Ensure adequate airflow around "The Double" by verifying clearances: 1500 mm front, 750 mm sides, 500 mm above, 300 mm rear, preventing overheating.
- [ ] Remove any obstructions (e.g., leaves, dirt) or debris near vents to maintain ventilation.

5. Temperature Calibration

- [ ] Run "The Double" and ensure it reaches the target temperature (default 8°C) efficiently, monitoring controller accuracy.
- [ ] Adjust settings if necessary to optimize performance, ensuring stable cooling at 40-100 lpm flow.

6. Final System Testing & Documentation

- [ ] Run "The Double" under full load and monitor performance, confirming 40-100 lpm water flow and cooling consistency.
- [ ] Check cycle times (e.g., shutoff after 45+ minutes stability) and ensure consistent temperature drop to setpoint.
- [ ] Record refrigerant levels (2x6 kg @ 80%) and electrical readings (22.8 A compressor, 1.64 A fans) in the service log.
- [ ] Note any repairs or parts replaced (e.g., seals, filters) during the service visit.
- [ ] Provide a detailed summary of findings and any recommended actions to the owner (e.g., future repairs).
- [ ] Suggest any necessary repairs or adjustments (e.g., coil cleaning frequency) before the next six-month service.

Technician: _____

Signature: _____

Next Service Due: _____

Bergs Warranty Claim Form - The Double Chiller

Unit Details

- **Model Number:** The Double Chiller
- **Serial Number: _____**
- **Installation Date: _____**
- **Installation Address: _____**

Owner Details

- **Name: _____**
- **Contact Phone: _____**
- **Email: _____**

Fault Information

- **Date Fault Discovered: _____**
- **Description of Fault:**

_____

_____

Operating Conditions at Time of Fault

- **Water Temperature: _____**
- **Ambient Temperature: _____**
- **Was unit running?** □ Yes □ No
- **Was pool pump running?** □ Yes □ No (Confirm 40-100 lpm flow if yes)

Maintenance History

- **Date of Last Service: _____**
- **Servicing Company: _____**
- **Regular Maintenance Performed:**
    - Six-monthly checks completed as per Section 6 of this manual.
    - Water chemistry maintained (e.g., no excessive scaling affecting 40-100 lpm flow).
    - Debris cleared regularly around "The Double" to maintain airflow (7400 m^3/h).
    - Filters cleaned/maintained to ensure 40-100 lpm water flow.

Installation Details

- **Installing Company: _____**
- **Electrician Licence #: _____**
- **Plumber License #: _____**

Additional Information

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- **Has unit been relocated?** □ Yes □ No
- **Any modifications made?** □ Yes □ No
- **If yes, please describe:**

Declaration

- **I declare that:**
  - All information provided is true and correct.
  - "The Double" has been operated according to this manual (e.g., 40-100 lpm flow, proper power supply of 230V single or three-phase, 240V single-phase for fans).
  - No unauthorised modifications have been made.
  - I understand non-warranty issues may incur costs.
- **Signature:** _____
- **Date:** _____

Office Use Only

- **Claim Reference #:** _____
- **Date Received:** _____
- **Reviewed By:** _____
- **Warranty Valid:** □ Yes □ No
- **Action Taken:** _____