



Wet Area & Sauna Maintenance

Objective: To ensure safe, efficient, and consistent operation of wet area facilities (ice bath, sauna, and chillers) while minimizing risk of accidents and extending equipment lifespan.

Scope: This SOP applies to all staff responsible for daily operation, cleaning, and maintenance of the wet areas and chillers in the club.

1. Safety Guidelines

Electricity & Water Safety

- Never immerse the chiller in water.
- Always check that AC outlet is grounded before operation.
- Test the Residual Current Circuit Breaker (RCD/GFCI) before every use.
- Do not use the chiller if:
 - The power cord/plug is damaged
 - The unit has been exposed to immersion or water spray
- Keep children and unauthorized persons away from the equipment.

Operating Environment

- Ensure proper ventilation around the chiller (ambient temperature $\leq 40^{\circ}\text{C}$).
- Do not cover air inlets/outlets.
- If temperature drops below 2°C , drain the chiller or use a dual-temp chiller with heating.

2. Daily Operation

Start-Up Procedure

1. Inspect the unit for damage or leaks.
2. Verify power outlet grounding and test RCD/GFCI.
3. Check water quality before circulation (pH 7–9, clean water only).
4. Pre-cool or pre-heat bath water to desired temperature ($3\text{--}40^{\circ}\text{C}$).
5. Monitor control panel for:
 - System Mode (Cool/Heat)
 - Water flow rate
 - Target vs. real water temperature
6. Confirm proper circulation before allowing use.

Shutdown Procedure

1. Turn off via control panel (hold ON/OFF for 2 seconds).
2. If outdoor, cover the unit with waterproof shelter.
3. Drain water if not in use for extended periods.

3. Cleaning & Maintenance

Daily

- Wipe external surfaces with a clean, dry cloth.
- Ensure sauna benches, floors, and wet area tiles are wiped down and disinfected.
- Verify that drain covers are clear and floor drains are flowing.

Weekly

- Test RCD/GFCI function.
- Wash and clean strainer mesh.
- Inspect water quality in tubs/pools.
- Replace or sanitize sauna water buckets and ladles.

Monthly

- Replace cartridge filter element (or as needed when flow is reduced).
- Inspect hoses, connectors, and check valve for leaks or blockages.
- Run a full-cycle check of chiller functions (cool/heat, defrost).
- Inspect sauna heater stones and replace if cracked.

Quarterly

- Conduct preventive maintenance with certified technician.
- Deep clean wet area tiles, grout, and drains with anti-microbial treatment.
- Inspect and calibrate water temperature sensors.

4. Troubleshooting Guide

Issue	Possible Cause	Action
Chiller won't power on	Faulty outlet or RCD/GFCI trip	Reset breaker, test with another outlet
Low water flow / Error FL	Dirty strainer or filter	Clean mesh, replace filter
"CLn" Code	Flow reduced by 30%	Clean strainer, replace filter
Unusual metallic noise	Compressor displaced	Stop immediately, call technician
Water temp inaccurate	Sensor calibration	Adjust via control panel or technician check
Excess condensation	Poor insulation	Insulate hoses, tub, and chiller surface

5. Responsibilities

- Club Staff: Perform daily/weekly cleaning, checks, and logging.
- Maintenance Supervisor: Conduct monthly and quarterly inspections, schedule service.
- Qualified Technicians: Handle electrical, refrigeration, or structural repairs.