



Stay Ahead of the Cold-Don't Get Caught Out This Winter with LS Systems

1. Controllers & Automation

- Check and test controllers / timers (Bailoy, Heron, Hunter, Rain Bird etc.) — update programs, test battery backups
- Inspect solenoid/control valves: test responsiveness, check for leaks
- Close, seal or insulate valve boxes / enclosures
- Keep spare control cables, wiring, spare controllers

2. Pipes, Fittings & Leak Prevention

- Inspect MDPE / HDPE, PVC, non-potable black pipe for cracks or brittleness
- Tighten and test compression fittings, saddles, barbed joints, connectors
- Drain or blow out lines (compressor) to prevent freeze damage
- Insulate exposed joints, replace worn connectors, keep adhesives & spare parts

3. Filters, Meters & Water Quality

- Clean or flush automatic / screen / sand filters, remove sediment
- Replace worn filter cartridges / screen elements
- Test flow meters, water meters, gauges for leaks or blockage
- Winterize or protect chemical dosing systems or injectors

4. Pumps & Storage

- Run and test pumps / booster sets / surface / submersible pumps
- Check seals, bearings, connections, foundations
- Drain or protect peripheral pumping lines
- Inspect storage tanks / reservoirs / bowsers for cracks, ensure drainage, protect from frost

5. Drip / Micro-Irrigation Systems

- Flush all drip lines / porous pipe / micro tube
- Inspect emitters, dripper stakes, connectors for clogging or damage
- Replace damaged tape fittings, caps, emitters
- Store spare micro-irrigation accessories in frost-protected location

6. Sprinklers & Sprinkler Zones

- Lift and clean pop-up, greenhouse, landscape sprinkler heads
- Check nozzles, seals, alignment
- Test zone coverage and pressure per head
- Remove/protect risers or exposed heads vulnerable to frost damage
- Keep spare heads, nozzles, gaskets

7. Hose & Couplings

- Drain and roll up hoses, lay-flat hoses, suction hoses
- Inspect quick couplings, cam & groove, camlocks, O-rings, connectors
- Replace worn seals, O-rings
- Service hose reels / trolleys

8. Inventory & Spare Parts

- Confirm stock of fittings, spare valves, pipes, connectors, gaskets, emitters
- Keep a maintenance toolkit: cutters, wrenches, solvent, clamps, tapes
- Store spare sensors, controllers, meters in dry, labelled compartments

9. System Winter Mode & Shutdown

- Switch non-essential zones to “off” or winter mode
- Drain or isolate lines not needed in cold months
- Execute a final test run before deep freeze
- Activate any freeze / frost protection features in controllers

10. Documentation & Monitoring

- Update system layout, valve IDs, flow rates, controller zones
- Note previous weak spots or freeze damage areas
- Mark underground valve / pipe locations clearly
- Schedule a re-inspection in early spring

11. Ermaf Heaters (Greenhouse / Horticultural Heating)

- Service burners and ignition systems: clean, test spark and flame sensors
- Inspect fans, motors and bearings for smooth operation
- Check and clean air intakes and outlets for dust, debris or blockages
- Test thermostats and controllers: recalibrate if necessary
- Inspect gas / oil supply lines and regulators for leaks or damage
- Ensure flues and chimneys are clear and venting correctly
- Replace worn seals, gaskets, ignition electrodes before peak use
- Confirm adequate frost protection for fuel supply lines and storage
- Run a full heat test before outside temperatures drop significantly



**Prepare, Protect, Perform: LS Systems Ltd
Essential Checklist for a Thriving Winter
Season.**

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