



MIST COOLING SYSTEM

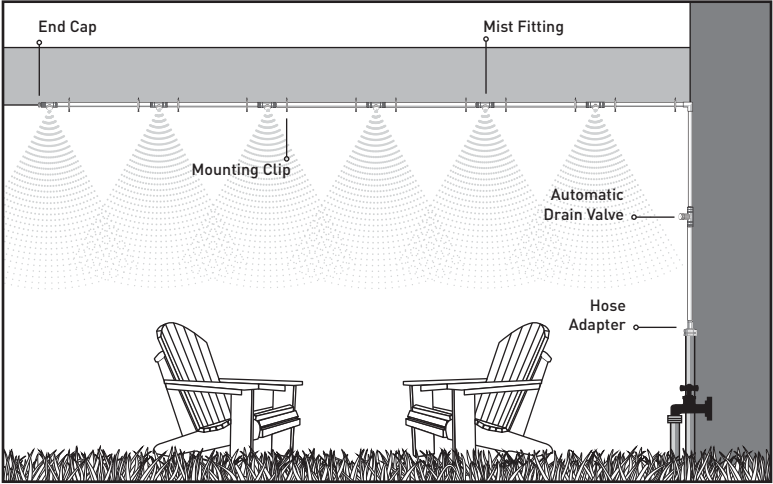
USER'S GUIDE

WARNING: Read all instructions and check kit contents before beginning assembly.

PARTS LIST

Item	Qty	Description
	6	2-ft Lengths of 3/8-in Flexible Tubing
	1	10-ft of 3/8-in Feed Line Tubing
	7	Slip-Lok Fittings
	1	End Plug
	1	Hose Adapter
	12	Mounting Clips
	6	Mist Nozzle
	1	Automatic Drain Valve
	1	Hose Washer

If items are missing please contact Orbit® Customer Care before returning product to the store.
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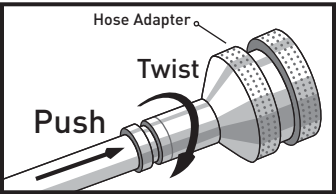
PRE-INSTALLATION TIPS

- The most efficient placement for a mist system is around a perimeter of an outdoor area. This will form a mist cooling curtain.
- For mist systems mounted 8-ft to 10-ft above the ground position the nozzles 24-in apart. Nozzle spacing should be shortened if the mist system is mounted higher by cutting the mist tubing shorter with a PVC cutter or utility blade.
- Predetermine your mist system location and where it will attach to the water source. It is recommended that the system be mounted on the bottom of your supporting structure.
- When installing into stucco, you will need to purchase tubing mounting clips with an anchor (Model 20001L) and use them in place of the tubing mounting clips included.

MIST SYSTEM ASSEMBLY

Read through all of the instructions before beginning installation.

- Using a 2-ft section of tubing insert it into the end of the Slip-Lok hose adaptor with a firm "push and twist" motion. Gently pull on the tubing to assure proper insertion and engagement.

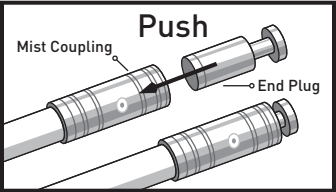


NOTE: The tubing must be inserted past the O-ring inside the fitting to form a leak-proof seal (approximately 3/4-in).

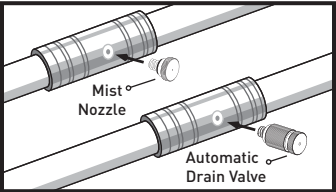
- Insert the above section into a Slip-Lok fitting following the same procedure. This will be where you thread the automatic drain valve in Step 8.
- Next, insert the feed line tubing into the open end of the Slip-Lok fitting.
- Attach another Slip-Lok fitting at the end of the feed line.
- Continue this procedure with the 2-ft sections and Slip-Lok fittings until the desired length of the mist line is completed.

NOTE: Depending on the layout of your system, you may have extra pieces leftover.

- Insert the end plug into the last Slip-Lok fitting with the tabbed end out. The plug fits all the way into the fitting with only the tip exposed.



- Connect the system to a standard garden hose and turn on the water at full pressure to flush the system for several minutes.
- Turn off the water and hand-thread mist nozzles and automatic drain valve into place.

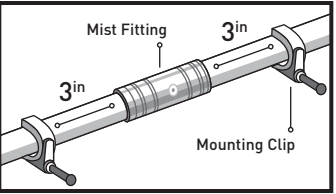


NOTE: The automatic drain valve should be installed at the beginning of the feed line for most installations. This will automatically drain off excess water from the line when water is turned off, reducing calcium build up in the nozzles. After the system is mounted, if there are multiple elevation changes, more than one drain valve may be needed (Model 10115H).

- Turn on the water to pressurize the system and inspect each fitting for proper installation.

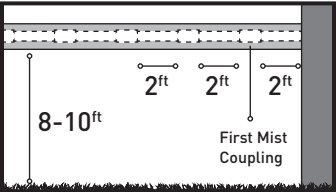
NOTE: Water will shoot from the drain valve when the water is turned on. The valve will shut off when the line is pressurized.

- Turn off water and disconnect the mist system to mount the system. Begin by placing one of the hanging clips over the mist line 3-in from the first Slip-Lok fitting with a misting nozzle.



NOTE: Mounting the system at a slight incline from the water source will allow the system to drain properly.

- Nail mounting clip into place.



NOTE: The first misting nozzle in your mist system should begin 2-ft from the house.

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12. Continue placing a hanging clip 3-in on each side of each Slip-Lok fitting and hammering in place.

NOTE: Pull tubing slightly while applying each clip to avoid sagging in mist line.

13. Reconnect system to water source and turn on water to pressurize the system and begin misting.

MIST SYSTEM MAINTENANCE

- Drain water from the mist system when not in use.

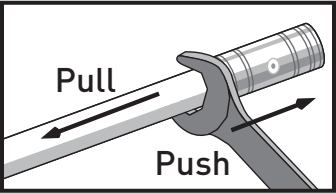
NOTE: If an auto drain valve has not been installed, detach the system at the water source and allow the water to drain completely.

- Periodically clean the nozzles in the system using nozzle cleaner (Model 10103) for optimal performance.
- A calcium inhibitor filter (Model 10109W) can be used to prevent any solid sediments from passing from the water source to nozzles.
- Remove nozzles at the end of the summer season.
- To keep the mist line free from debris in the off season, install nozzle plugs (Model 10107L) in place of the misting nozzles.
- Before reinstalling your nozzles the following year, flush the system for 5 minutes.
- Flush the mist line if the system has been idle for over a month.

TROUBLESHOOTING

The Professional Mist Cooling System can easily be disassembled to correct problems, replace parts, or extend the system. Follow the steps below to disassemble any Slip-Lok fitting from the tubing.

1. Place a 3⁄8-in or 1⁄2-in open end wrench over the tubing next to the fitting.
2. Pull the tubing away from the fitting while pushing the wrench against the fitting.



Problem	Possible Cause	Solution
Leak at fittings	Fittings not inserted all the way	1. Remove tubing from Slip-Lok and look inside each end to make sure that the O-ring is in place 2. Check tubing. There should be a line scored around tubing exactly 1⁄4-in from the end of the tubing. If not, tubing has not been inserted past the O-ring in the fitting. Re-insert tubing correctly - push and twist 3. Any horizontal scoring of the tubing could cause leaking. Trim the tubing above any scoring marks with a clean vertical cut and re-install tubing correctly. DO NOT USE SCISSORS
Leak at misting nozzles	Nozzles were not installed correctly Faulty nozzle Clogged nozzle	Make sure the nozzle is sufficiently tightened into place. HAND TIGHTEN ONLY. DO NOT USE TOOLS Check to make sure the nozzle O-ring is in place Clean with nozzle cleaner and/or remove debris left from inadequate flushing of mist line by blowing out with air
Misting system will not spray	Water source is turned off Clogged nozzles	Turn water completely on Clean nozzles (see maintenance section) — Do not attempt to clean by sticking foreign objects into nozzle opening. This will result in nozzle damage.

SYSTEM EXPANSION

The Professional Mist Cooling System can easily be expanded from the original kit of 6 nozzles/12-ft of mist line to 62 nozzles/124-ft (dependent upon your available water pressure). Simply remove the end plug from the last Slip-Lok fitting of your existing mist line and add additional Slip-Lok couplings with misting nozzle (Model 10121W), flexible tubing (Model 92225), and mounting clips (Model 10114H) to your desired length. Additional supplies can be found at your local retail store.

ADDITIONAL ACCESSORIES

Additional Slip-Lok fittings are available to customize or repair your mist cooling system.

Item	Part #	Description
	92110 Slip-Lok Elbow	Creates 90° turns
	92120 Slip-Lok T	Split mist lines and run in multiple directions
	10127L Slip-Lok Coupling	Join sections of tubing
	92320W Hose Adapter	Replace damaged hose adapters
	92100 Booster Pump	Increase the mist system pressure up to 160 PSI

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