














# PVC MIST COOLING SYSTEM

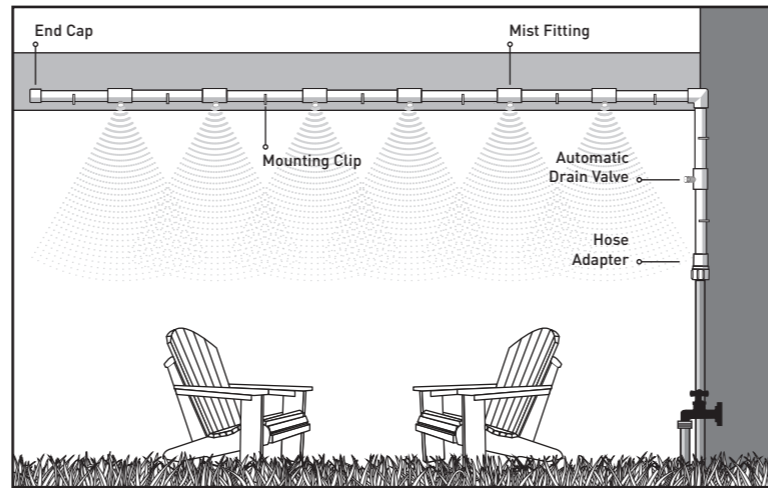
## USER'S GUIDE

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

## PARTS LIST

Item	Qty	Description
 22 in.	9	1/2-in PVC Pipe
	7	Mist Fitting
	3	Elbow
	2	Coupling
	1	End Cap
	1	Hose Adapter
	9	Mounting Clips
	6	Mist Nozzle
	1	Automatic Drain Valve
	1	Hose Washer
	1	PVC Cement

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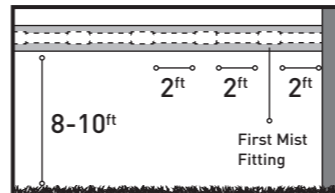
## PRE-INSTALLATION TIPS

- The most efficient placement for a mist system is around a perimeter of an outdoor area, this will form a mist curtain.
- Purchasing a PVC cutter is recommended to allow for cutting 1/2-in PVC in exact lengths.
- 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 PVC pipe shorter.
- For a patio or deck more than 12-ft deep, mount the pipe on the inside of the fascia board with the nozzles facing downward into the area. If the area is less than 12-ft deep, mount the pipe on the outside of the fascia board with nozzles positioned slightly away from the area.
- Determine where you will connect to your water source and figure out how you want to combine the pieces of the kit to create your system.
- When installing onto a metal material, you will need to purchase self-tapping sheet metal screws to use in place of the nails.

## MIST SYSTEM ASSEMBLY

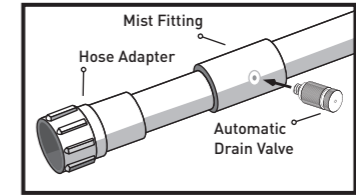
Read through all of the instructions before beginning installation. Once the PVC pipe and fittings are cemented together, they cannot be disassembled.

1. Measure and mark the hanging location of the mist line to determine the length needed for each straight run. The placement of the first misting nozzle should be 2-ft from the house.



2. Make sure all parts are completely free of debris. Remove any PVC shavings from both the interior and outside edges of each piece, then flush with air or water to clean thoroughly.

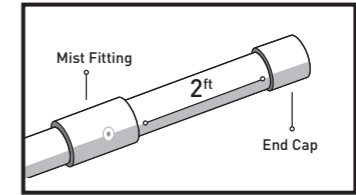
3. Assemble the water feed line using the hose adapter, two PVC pipes, one coupling and one mist fitting. The automatic drain valve will be installed here.



4. Assemble the horizontal portion(s) of your mist system using the remaining PVC pipes and mist nozzle couplings.

**NOTE:** Depending on the layout of your system, you may have extra fittings left over.

5. Connect the end cap to the end of the misting system.



6. Secure the joints with the PVC cement following the steps outlined in the section **Cementing PVC Fittings**.

7. Mount the mist system following the steps outlined in the section **Mounting Mist System**.

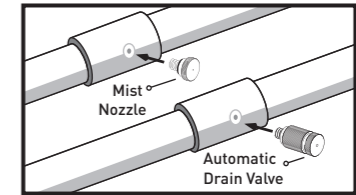
**NOTE:** Mounting the system at a slight incline from the water source will allow the system to drain properly.

8. Join all sections, including the water feed line, at corners by cementing elbows into place.

9. Allow a minimum of 1 hour drying time.

10. Connect the system to a standard garden hose and turn on the water at full pressure to flush the system for several minutes.

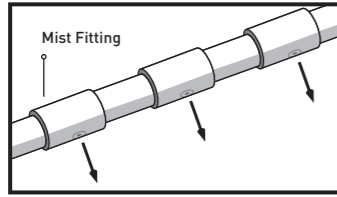
11. Turn off the water and hand-thread mist nozzles and automatic drain valve into place.



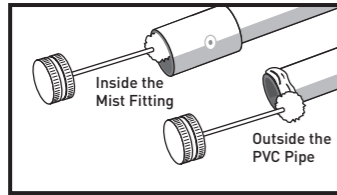
12. Turn on the water to pressurize the system and begin misting!

## CEMENTING PVC FITTINGS

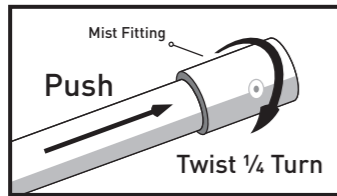
1. When assembling your mist system ensure that the mist fittings are all facing in the same direction.



2. Liberally apply cement to the inside of the fittings and the outside of the PVC pipe.



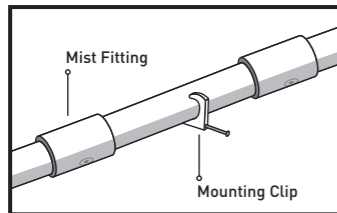
3. Insert PVC pipe into fitting and twist ¼ turn to evenly spread the cement and provide a water-tight seal.



## MOUNTING MIST SYSTEM

**WARNING:** Two people are required to mount the system to prevent the mist line from breaking.

1. Snap one mounting clip over the middle of each section of PVC pipe.



2. Place assembled mist line along your marks with the first nozzle beginning approximately 2-ft from the house.

**NOTE:** Be sure that mist line is positioned at the proper angle for misting.

3. Nail mounting clip into place. Repeat these steps until all straight sections are hung.

## MIST SYSTEM MAINTENANCE

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

**NOTE:** If an automatic 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.

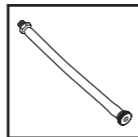
## TROUBLE SHOOTING

Problem	Possible Cause	Solution
<b>Leak at fittings</b>	A watertight seal was not formed when cemented or water was ran through the system too soon	The fitting must be cemented again, or removed and replaced
<b>Leak at misting nozzles</b>	Nozzles were not installed correctly	Make sure the nozzle is sufficiently tightened into place. <b>HAND TIGHTEN ONLY. DO NOT USE TOOLS</b>
	Faulty nozzle	Check to make sure the nozzle O-ring is in place
	Clogged nozzle	Clean with nozzle cleaner and/or remove debris left from inadequate flushing of mist line by blowing out with air
<b>Misting system will not spray</b>	Water source is turned off	Turn water completely on
	Clogged nozzles	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 PVC Mist Cooling System can easily be expanded from the original kit of 6 nozzles/12-ft of mist line to 125 nozzles/250-ft (dependent upon your available water pressure) by adding additional mist nozzle fittings (Model 10112H) and sections of ½-in paintable UV-treated PVC pipe. Additional PVC pipe and fittings can be found at your local retail store.

## ADDITIONAL ACCESSORIES



Model 10056H – Flexible nozzle extensions may be used to allow for complete nozzle adjustment even after your system is installed. These 4-in extensions will also allow your system to be mounted inside the fascia with the nozzles extended below the fascia for a more attractive installation.

## WARRANTY AND STATEMENT

Orbit® Irrigation Products, Inc. warrants to its customers that its Orbit® products will be free from defects in materials and workmanship for a period of four years from the date of purchase. We will replace, free of charge, the defective part or parts found to be defective under normal use and service for a period of up to four years after purchase (proof of purchase required). We reserve the right to inspect the defective part prior to replacement. Orbit® Irrigation Products, Inc. will not be responsible for consequential or incidental cost or damage caused by the product failure. Orbit® liability under this warranty is limited solely to the replacement or repair of defective parts.

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