Ordering a Mist System

We have set up an ordering guide and diagram to help you with designing your custom misting system. Print the diagram and instructions to assist with on-site measuring and pump location. We are here to answer any technical, pump sizing and application questions. **Please call to order. 480-926-2499**

- *Use the Letters in the diagram to determine the parts you need*
- *Use the Step – by – Step guide to record your measurements and amounts*

Step-by-Step Guide

STEP 1. Determine Pump & Filter Location

The location of the pump and filter is very important to the proper functioning of your mist system. The pumps require a water and power source. The size of the pump is determined by the number of nozzles you will need. Pump sizing is covered in Step 6.

- *<u>Power/Electrical requirement</u> – (letter A)*
  - ✓ *110V or 220V outlet (pump has standard 6 ft. power cord)*
  - ✓ *15amp or 20amp circuit*

- *<u>Water/Plumbing requirement</u> – (letter B)*
  - ✓ *Standard hose bib (outdoor faucet)*
  - ✓ *½ inch threaded ball valve*

  ***NOTE:** It is easier and less expensive for you to bring water to the pump than it is to bring power to the pump. Therefore we suggest using extra ½ inch low-pressure water supply tubing.*

- *<u>Filter Assembly</u> – (letter B)*
  - ✓ *This is in between the water source and the pump*
  - ✓ *Comes with:*
    - *1-micron sediment filter*
    - *Filter housing*
    - *Mounting bracket*
    - *Push-loc hose fittings*
    - *Garden hose adaptor*
    - *10 feet of ½ in. low-pressure tubing*

  ***NOTE:** If more than 10 feet of low-pressure tubing is needed, note additional length for ordering.*

STEP 2. Measure Amount of Stainless Steel Line (Tubing)

There are two types of stainless steel line; atomizing and supply. The atomizing line surrounds the patio or ramada and holds the nozzles. The supply line is the above ground water supply from the flexible tubing discussed in Step 3.

- *<u>Stainless Steel Atomizing Line</u> – (letter C)*
  - ✓ *Measure the perimeter of the patio or ramada and record it on the diagram*
  - ✓ *Line is only available with 24 inch spacing (nozzle to nozzle) and 8 ft. lengths*

- *<u>Stainless Steel Supply Line</u> – (letter D)*
  - ✓ *Measure the distance from the atomizing line on the patio or ramada to the underground flexible supply line and record it on the diagram*
    - *This line is usually mounted vertically on the wall*
    - *It can be mounted on columns and corners*
    - *Line is only available in 8 foot lengths*

STEP 3. Measure Amount of Flexible Nylon Supply Line (Tubing)

The flexible supply tubing brings the water from the pump to the areas that will be misted.

- *Underground Line – (letter E)*
  - ✓ *Measure the distance from the pump (letter A) to the stainless steel supply line (letter D) and record it on the diagram*

STEP 4. Determine Number of Compression Fittings

There are four types of compression fittings. You will need to count how many of each one you need and record them on the diagram. The compression fittings are used to connect steel to steel and/or nylon to steel.

- *Brass End Cap – (letter H)*
  - ✓ *These are used at the end of the lines (letters C & E)*
- *Brass Elbow – (letter I)*
  - ✓ *These are 90˚ fittings that are used on stainless steel lines (letters C & D) for **CORNERS** and going up or down a wall*
- *Brass Tee – (letter J)*
  - ✓ *These are used to create separate lines to go to different areas or zones*
  - ✓ *Used on all stainless and nylon lines*
- *Brass Union (coupling) – (letter K)*
  - ✓ *These are used to connect all of the steel line sections*
  - ✓ ***Remember that stainless steel line is only available in 8 foot lengths***

STEP 5. Determine Additional Misting Areas (optional)

In areas other than patios and ramadas, we use 24 inch flexible Mist Risers™ (letter G), which can be mounted in many different locations using underground line (letter E) with slip-lok fittings. Go to the Fog Effects Gallery for examples.

- *Landscape Areas*
  - ✓ *Areas include bushes, boulders, etc.*
- *Waterfalls*
  - ✓ *Supply line and Mist Risers™ are mounted on the back of the feature*
- *Sitting & Sunbathing Areas*
  - ✓ *Supply line and Mist Risers™ are mounted to divisional walls, fences and/or concrete*
- *Pool Decks*
  - ✓ *Supply line and Mist Risers™ are mounted into the concrete*

STEP 6. Determine Pump Sizing

Pump sizing is determined by the number of nozzles in your system. The mist line comes with 24 inch nozzle spacing. You will need to divide the feet of atomizing line by 2 to determine the number of nozzles.

For example: 8 feet of atomizing line = 4 nozzles

- *Pump Sizes*

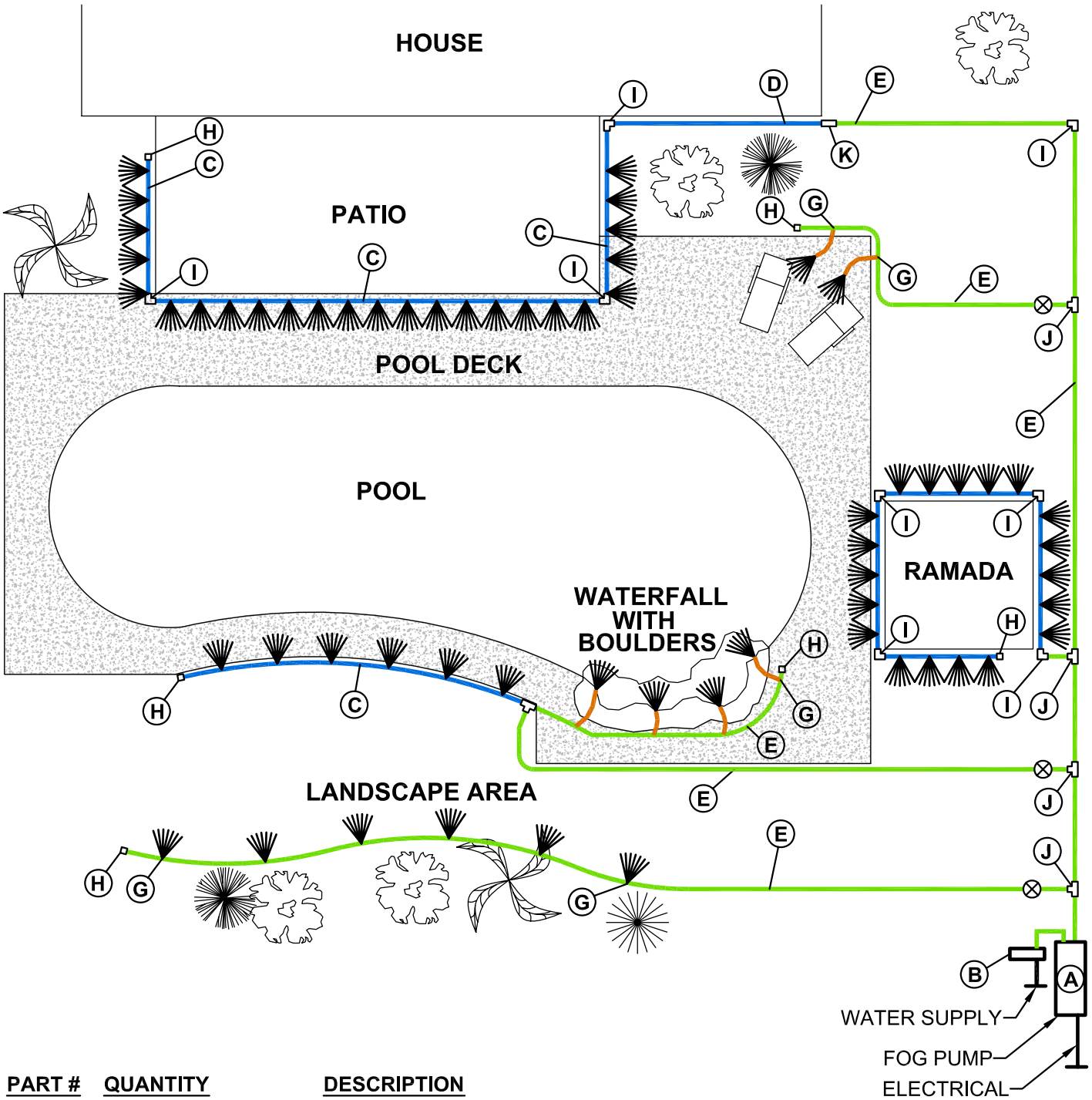
No. of Nozzles	***Size of Pump Gallons Per Minute (GPM)***	***Amp Draw (110 V)***	***Amp Circuit (110 V)***
10 – 16	*0.5*	*9.0*	*15*
20 – 32	*1.0*	*12.5*	*15*
32 – 48	*1.5*	*15.5*	*20*
48 – 64	*2.0*	*18.0*	*20 (dedicated)*
64 – 100	*3.0*	*18.0*	*20 (dedicated)*

NOTE: *220 V is available on all pumps.*

STEP 7. Decide on Miscellaneous Equipment

There are lots of additional parts available to further customize and fine tune your misting system.

- *Nozzle Extensions*
  - ✓ *These are flexible copper and can be angled to direct mist as desired*
  - ✓ *They come in 6 in. and 12 in. lengths*
- *Remote Controls*
  - ✓ *These are used to turn the pump on and off up to 120 feet away*
- *Auto-Drain Valves*
  - ✓ *These are used to relieve the pressure and let the water drain at the pump when it has been turned off*
- *Ball Valves*
  - ✓ *These are used to turn off separate lines that go to different areas or zones*
- *5-Nozzle Cluster*
  - ✓ *This is a piece that holds five nozzles together to create more mist in one area and to create fog effects*



PART #	QUANTITY		DESCRIPTION
		A	PUMP (PER SYSTEM SIZE)
401		B	SEDIMENT FILTER
110		C	3/8" STAINLESS STEEL ATOMIZING LINE (24" NOZZLE SPACING, 8' SECTIONS)
107		D	3/8" STAINLESS SUPPLY LINE (8' SECTIONS)
102		E	3/8" HIGH PRESSURE FLEX NYLON LINE
216		G	24" FOG RISER WITH COPPER LEAD
505		H	3/8" COMPRESSION BRASS END CAP
502		I	3/8" COMPRESSION BRASS ELBOW
503		J	3/8" COMPRESSION BRASS TEE
501		K	3/8" COMPRESSION BRASS UNION
702		L	BALL VALVE