

# Sprayvectors®



## Provides Ultra-Fine, Controlled Spray

ITW Vortec's Sprayvectors provide ultra-fine droplet sized sprays for evaporative cooling, moisturization, atomization and humidification. Superior to conventional hydraulic and piezoelectric nozzles, they produce defined spray patterns that can be widely diffused or directed. By use of compressed air, these liquid atomizing devices create micron and sub-micron sized spray droplets. This ultra-fine spray produces greater surface coverage than conventional nozzles. With more efficient use of liquid, Sprayvectors accelerate air-liquid interaction providing effective cooling, humidifying and dust control.

MODEL	PATTERN DIA.	WATER FLOW RATE (GPM)				
		.1	.2	.3	.4	.5
Fogging and Atomizing	A in. mm	5 127	5 127	5 127	5 127	5 127
	B in. mm	30 762	30 762	30 762	30 762	30 762
Humidifying	C in. mm	.10 80 2030	.15 48 1218	.20 44 1117	.25 30 761	

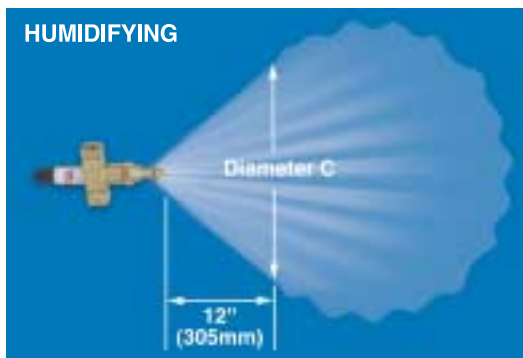
90 PSIG air, 15 PSIG water  
Sprayvectors have 1/4" NPT(F) Compressed Air/Liquid Ports

Sprayvectors introduce 2-20 PSIG (0.14-1.4 Bar) filtered liquids through a 1/4" NPT port. They can spray liquids with viscosities up to 1100 CPS for fogging and atomizing applications. Liquids with viscosities up to 100 CSP are suitable for humidifying. Large internal passages eliminate clogging. Precise adjustable flow rates of 6-30 GPH (22.7-113.6 LPH) can be controlled with a knob. External mixing of fluids and compressed air permits delivery of a dense, directable, high velocity spray by using Atomizing and Fogging Sprayvectors or a diffused low velocity spray using Humidifying Sprayvectors. Dry compressed air up to 100 PSIG (6.9 Bar) and airflows of only 12 SCFM (339.6 SLPM) atomize fluids to produce droplet sizes of 20-200 microns.

### Sprayvectors can be used for:

- Evaporative Cooling
- Static Neutralization
- Sanitizing or Deodorizing
- Atomizing
- Moisturization
- Pressure Spray Cleaning
- Wetting
- Spray Application
- Dust Suppression
- Humidification
- Lubrication
- Mist Coating

MODEL NO.	SPRAY PATTERN	DROPLET SIZE	SUGGESTED APPLICATIONS
1703	Fogging	20-60 microns	Moisturizing, coating, evaporative cooling, dust suppression
1713	Atomizing	60-200 microns	Washing, applying lubrication
1707	Humidifying	20-200 microns	Mist coating, moisturizing, evaporative cooling, spray drying



- Controlled, ultra-fine droplet size
- Removable/interchangeable nozzle tips for easy cleaning or replacement
- Wide viscosity range – 1 to 1100 CPS
- Delivers wide range of liquid flows
- Precise adjustability and delivery
- No clogging problems
- No electricity
- Quiet – inexpensive
- Allows low pressure liquid supply (2-20 PSIG)



### Precise, adjustable flow rates

