

Ultra-Fine, Controlled Spray



Vortec Spray Nozzles provide ultra-fine droplet-sized sprays for evaporative cooling, atomization, humidification, and wetting. Superior to conventional hydraulic and piezoelectric nozzles, Spray Nozzles produce spray patterns that can be widely diffused or directed. The liquid stream is entrained by high velocity compressed air to create a range of micron- level spray droplets, resulting in greater surface coverage than conventional nozzles.

With this more efficient use of the liquid, Spray Nozzles accelerate air-liquid interaction to give more effective cooling, humidifying, wetting, and dust control.

Features

- Produce controlled, ultra-fine droplet sizes
- Easy cleaning and replacement with removable nozzle tips
- Flexibility for fogging, atomizing, and humidifying with interchangeable nozzle tips
- Can be used with a wide viscosity range of 1–1,100 cPs
- Deliver a wide range of liquid flow rates: 6–30 gallons per hour (23–114 liters per hour)
- Require no electrical connection at the nozzle
- Allow low pressure liquid supply: 2–20 psig (0.1–0.4 bar)
- Use only 12 scfm (340 slpm) of compressed air
- Clogging is minimized with liquid entrainment using compressed air

Benefits

- More efficient use of liquid as it is entrained by the compressed air
- Consistent, effective cooling of surfaces reduces heat distortion of parts
- Eliminates damage to wood and other water sensitive surfaces due to low humidity
- Provides even coverage when applying coatings, rust inhibitors, lubricants, preservatives, etc. to parts, wood, rubber, plastic, food, and more
- Reduces noise levels
- Speeds testing for humidity effects due to varying humidity levels
- High pressure liquid flows are not required
- Precise – adjustable flow rates minimize usage of expensive coatings, preservatives, rust inhibitors, etc.
- Produce finer drops than with hydraulic nozzles
- Droplet size and production is not dependent on liquid pressure

Applications

Evaporative Cooling
Mist Cooling
Moisturization
Dust Suppression

Static Neutralization
Pressure Spray Cleaning
Humidification
Sanitizing or Deodorizing

Wetting
Lubrication
Atomizing
Spray Applications

Vortec, an ITW Company

10125 Carver Road
Cincinnati, Ohio 45242
1-800-441-7475

sales@vortec.com
www.vortec.com

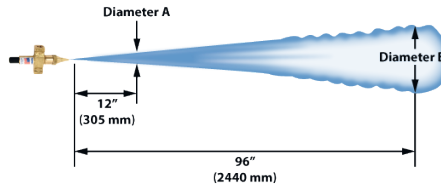


SPRAY NOZZLES

Model 1703 System* Model 1723



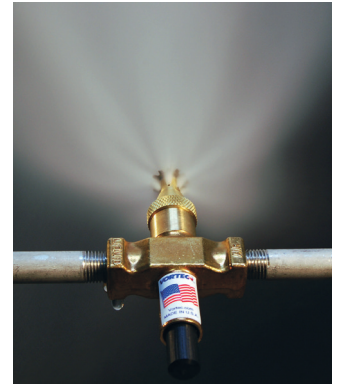
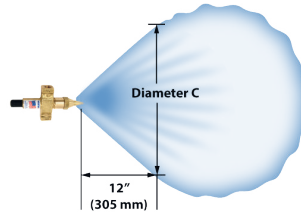
- Fogging nozzle that produces 20–60 micron droplets
- Fogging mist covers a 30 inch swath at 8 feet from nozzle
- Handles liquids with viscosities up to 1100 cP
- Suggested Applications: Moisturizing, coating, evaporative, cooling, dust suppression



Model 1707 System* Model 1727



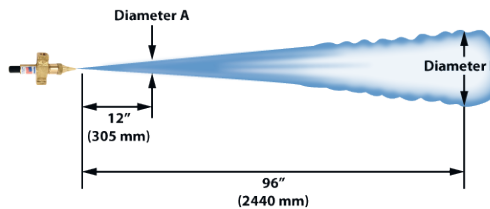
- Humidifying nozzle that produces 20–200 micron droplets
- Wide humidifying mist extends over 6 feet at only 12 inches from the nozzle
- Handles liquids with viscosities up to 100 cP
- Suggested Applications: Mist coating, humidifying, moisturizing, evaporative cooling, spray drying



Model 1713 System* Model 1733



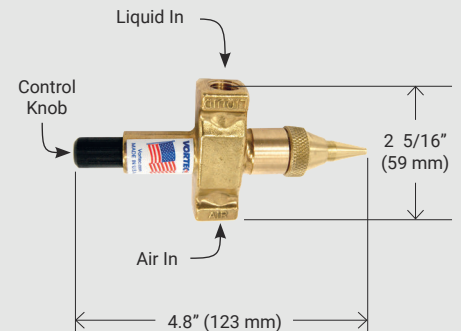
- Atomizing nozzle that produces 60–200 micron droplets
- Mist covers a 30 inches swath at 8 feet from nozzle
- Handles liquids with viscosities up to 1100 cP
- Suggested Applications: Washing, applying lubrication



*All systems include a filter and liquid strainer

Spray Pattern	Pattern Diameter	Water Flow Rate (GPM)				
		0.1	0.2	0.3	0.4	0.5
Fogging and Atomizing	A	5" (127 mm)				
	B	30" (762 mm)				
Humidifying	C	0.10	0.15	0.20	0.25	
		80" (2,030 mm)	48" (1,218 mm)	44" (1,117 mm)	30" (761 mm)	

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



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For more information on Spray Nozzles, click here or scan this QR code with your smart phone.

