



UNIFORM DISTRIBUTION FULLJET® NOZZLES

HIGH-CAPACITY, CLOG-RESISTANT
FULL CONE NOZZLES PROVIDE
SUPERIOR SPRAY UNIFORMITY

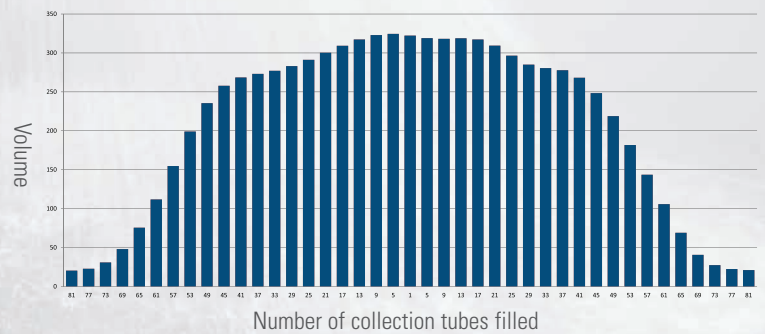


Spraying Systems Co.
Experts in Spray Technology



UNIFORM DISTRIBUTION (UD) FULLJET® NOZZLES – BETTER SPRAY DISTRIBUTION PROVIDES BETTER SCRUBBING

Uniform Distribution FullJet Nozzle

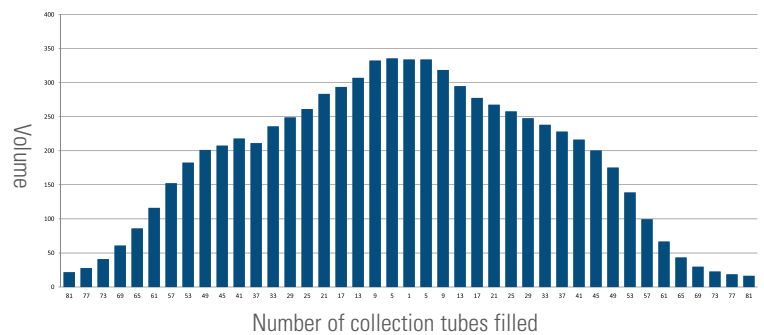


To ensure optimal application results in gas scrubbing and cooling, choose our UD FullJet full cone spray nozzles. Constructed of chemically-resistant polypropylene, UD FullJet nozzles provide the best performance of nozzles of their kind. A special vane design produces coarse drops that are uniformly distributed throughout the full cone pattern to ensure even distribution.

COMPARING DISTRIBUTION

Side-by-side testing shows the performance differences between our UD FullJet nozzles and a competitor's nozzles. The distribution data clearly shows the performance differences.

Competitor's Nozzle

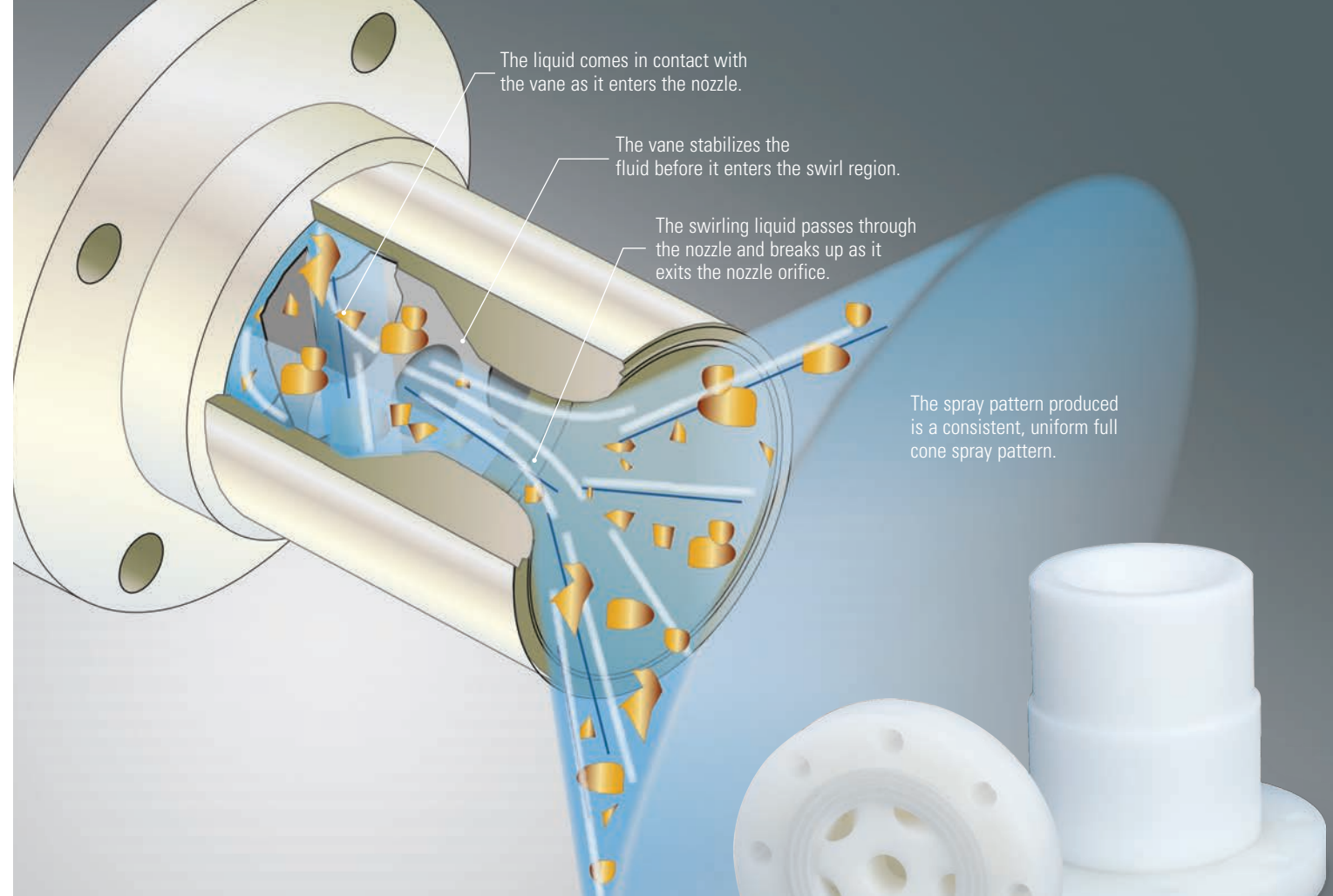


The nozzles tested are identical in size, capacity and spray angle. Both nozzles were tested using the same operating conditions.

TYPICAL USES:

- Gas/fume scrubbing
- Cooler pre-condensers, condensers and evaporative coolers





The liquid comes in contact with the vane as it enters the nozzle.

The vane stabilizes the fluid before it enters the swirl region.

The swirling liquid passes through the nozzle and breaks up as it exits the nozzle orifice.

The spray pattern produced is a consistent, uniform full cone spray pattern.

BENEFITS OF UD FULLJET® SPRAY NOZZLES

In addition to superior spray pattern uniformity, UD FullJet nozzles provide trouble-free operation.

- **Clog-resistant:** UD FullJet nozzles have the largest free passage of any nozzle of this type. That means there is minimal risk of clogging even when using debris-filled or recirculated liquid. Unscheduled downtime due to clogged nozzles is reduced
- **Long wear life:** Durable polypropylene construction provides excellent wear and chemical resistance
- **Broadest range of sizes and capacities** ensures you'll find a nozzle to meet your performance requirements
 - Flange sizes: 4", 5", 6", 8", 10", 12"
 - Spray angles: 60°, 90°, 120°
 - Capacities up to 3813 gpm (14434 lpm)

FULL RANGE OF PRODUCTS IN PLASTIC MATERIALS FOR CHEMICAL PROCESSORS

- The largest free passage full cone nozzle, the MFP FullJet, is available in polypropylene, PVC and PTFE and a wide ranges of sizes, capacities, spray angles and connection styles



- SpiralJet® full cone cluster nozzles, also available in polypropylene, PVC and PTFE, provide 360° spray coverage



In addition to gas cooling, FullJet and SpiralJet nozzles are widely used in washing, quenching and dust suppression operations.



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Spraying Systems Co.®

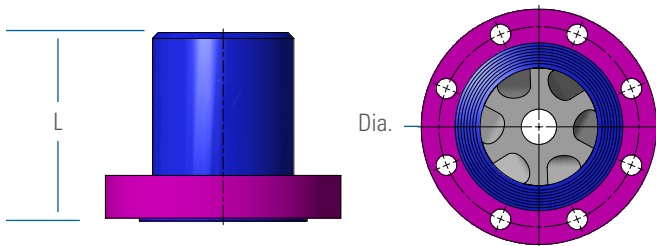
PERFORMANCE DATA

| Flange Size (in.) | Capacity Size | Approximate Free Passage Dia. in. (mm) | Flow Rate Capacity gallons per minute (liters per minute) | | | |
|-------------------|---------------|--|--|-----------------|------------------|----------------|
| | | | 3 psi (0.2 bar) | 7 psi (0.5 bar) | 10 psi (0.7 bar) | 15 psi (1 bar) |
| 4 | 140 | 1.00 (25) | 94 (356) | 140 (530) | 166 (628) | 200 (757) |
| | 150 | 1.06 (27) | 101 (382) | 150 (568) | 177 (670) | 215 (814) |
| | 180 | 1.12 (28) | 121 (458) | 180 (681) | 213 (806) | 258 (977) |
| | 250 | 1.32 (34) | 168 (636) | 250 (946) | 296 (1120) | 358 (1355) |
| 5 | 200 | 1.18 (30) | 134 (507) | 200 (757) | 236 (893) | 286 (1083) |
| | 250 | 1.32 (34) | 168 (636) | 250 (946) | 296 (1120) | 358 (1355) |
| | 300 | 1.45 (37) | 201 (761) | 300 (1136) | 355 (1344) | 429 (1624) |
| | 330 | 1.62 (41) | 222 (840) | 330 (1249) | 390 (1476) | 472 (1787) |
| 6 | 350 | 1.58 (40) | 235 (890) | 350 (1325) | 414 (1567) | 501 (1896) |
| | 450 | 1.78 (45) | 302 (1143) | 450 (1703) | 532 (2014) | 644 (2438) |
| | 480 | 1.84 (47) | 322 (1219) | 480 (1817) | 568 (2150) | 687 (2601) |
| | 615 | 2.1 (53) | 413 (1563) | 615 (2328) | 727 (2752) | 880 (3331) |

Maximum temperature: 170°F (76°C) up to 15 psi (1 bar).

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|-------------------|---------------|--|--|-----------------|------------------|----------------|
| | | | 3 psi (0.2 bar) | 7 psi (0.5 bar) | 10 psi (0.7 bar) | 15 psi (1 bar) |
| 8 | 600 | 2.31 (59) | 403 (1526) | 600 (2271) | 709 (2684) | 858 (3248) |
| | 665 | 2.43 (62) | 447 (1692) | 665 (2517) | 786 (2975) | 952 (3604) |
| | 775 | 2.63 (67) | 520 (1968) | 775 (2934) | 916 (3467) | 1109 (4198) |
| | 885 | 2.80 (71) | 594 (2249) | 885 (3350) | 1046 (3960) | 1266 (4792) |
| 10 | 885 | 2.75 (70) | 594 (2249) | 885 (3350) | 1046 (3960) | 1266 (4792) |
| | 950 | 2.85 (72) | 638 (2415) | 950 (3596) | 1124 (4255) | 1359 (5144) |
| | 1200 | 3.20 (81) | 806 (3051) | 1200 (4542) | 1419 (5371) | 1717 (6500) |
| | 1400 | 3.40 (86) | 940 (3558) | 1400 (5300) | 1656 (6269) | 2003 (7582) |
| 12 | 1200 | 3.25 (83) | 806 (3051) | 1200 (4542) | 1419 (5371) | 1717 (6500) |
| | 1280 | 3.25 (83) | 860 (3255) | 1280 (4845) | 1514 (5731) | 1831 (6931) |
| | 1910 | 3.75 (95) | 1283 (4857) | 1910 (7230) | 2259 (8551) | 2733 (10345) |
| | 2665 | 4.00 (102) | 1790 (6776) | 2665 (10088) | 3151 (11928) | 3813 (14434) |

DIMENSIONS AND WEIGHTS



| Flange Size (in.) | L in. (mm) | Dia. in. (mm) | Net Weight lb. (kg) |
|-------------------|------------|---------------|---------------------|
| 4 | 6.0 (152) | 9.0 (229) | 7.64 (3.47) |
| 5 | 8.0 (203) | 10.0 (254) | 10.8 (4.9) |
| 6 | 10.0 (254) | 11.0 (279) | 18.24 (8.27) |
| 8 | 12.0 (305) | 13.5 (343) | 34 (15.4) |
| 10 | 15.0 (381) | 16.0 (406) | 56 (25.4) |
| 12 | 18.0 (457) | 19.0 (483) | 110 (49.9) |

ORDERING INFORMATION

UNIFORM DISTRIBUTION (UD) FULLJET® NOZZLE

| | | | | | |
|-------------|---------------|-------------|---------------|-------------|---------------|
| Flange Size | Nozzle Series | Nozzle Type | Material Code | Spray Angle | Capacity Size |
|-------------|---------------|-------------|---------------|-------------|---------------|

Example

| | | | | | |
|---|----|----|----|-----|-----|
| 6 | HF | UD | PP | 120 | 480 |
|---|----|----|----|-----|-----|

Also available in PVC and PTFE.



Spraying Systems Co.
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