

Distribution Nozzles – Technical Data Sheet

Effectively designed distribution nozzles help ensure a uniform delivery of water over the fill. Uniform water distribution at the top of the fill is essential to achieve proper wetting of the entire fill surface. Nozzles can either be fixed in place while spraying in a round or square pattern, or they can be part of a rotating assembly as found in some circular cross-section towers.

ECOJET™ and SATURN distribution nozzles from B&W SPIG have been developed after successful performance test results.



Technical Data

	ECOJET S	ECOJET L	SATURN
Material	PP	PP	PP
Diameter range (mm)	20 – 30	32 – 40	16 – 40
Operating water head (bar-g)	0,03 – 0,3	0,03 – 0,3	0,03 – 0,3
Water distribution	Static cone and shaped plate, impellers (plus and 3 helix)		Static
Application	Pressure and gravity distribution system		
Pipe/flume connection	PP adaptor ring		
Weight (g)	220	300	120
Height (mm)	285	325	190

continued ▶

Distribution nozzle design and development

All the nozzles provided by B&W SPIG are designed, developed and tested at our test chamber and laboratories in Arona, Italy. After software modeling, the nozzles are produced for sample test campaigns.



To achieve optimal water distribution on the fill pack at various water flow rates, extensive tests are conducted, including discharge coefficients, reduced loss-of-pressure, and wear tests. Additional tests are conducted on pilot plants to provide further design data. As the heart of the thermal exchange process, the fill pack relies on the efficiency achieved with effectively designed distribution nozzles.

Our Ecojet and Saturn distribution nozzles provide versatility, high reliability and outstanding performance.

Replacement components and field service

B&W SPIG provides comprehensive after sales service including training, operational support, maintenance services, and spare and replacement parts. Our quality replacement components are competitively priced and are available from a worldwide network of service locations on short notice to provide our customers with continuous and safe plant operation.



B&W SPIG's Quality, Health & Safety, and Environmental Management System is certified by



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