



Tornado Ray Jet

Turbulent flow jet stream sprayer

The Tornado Ray Jet stream sprayer incorporates a vortex nozzle that creates a turbulent water flow through a large water passage. Due to the large water passages, clogging hazard is minimized even with low flow rates.

Main features:

- The vortex nozzle, allowing large water passages, protects from clogging
- No moving parts to break, jam, or wear out
- Low trajectory jet streams
- Protected against U.V. degradation
- Resistant to chemicals and fertilizers commonly used in agriculture

Specifications:

- Wetting patterns: 180° (8 jet streams), 300° (10 jets), 360° (8 or 12 jets)
- Flow rates at 1.5 bar: 25, 34, 55, 70 lph
- Recommended operating pressure: 1.5-3.0 bar
- Assembly configurations:
 - One-piece Tornado Ray Jet sprayer with 5 mm threaded inlet stem - fits 4x7 mm tubing
 - One-piece Tornado Ray Jet sprayer with conic male inlet stem - matches Plastro's Meteor adaptor (#41) with conic female outlet
 - Take-apart vortex nozzle assembled with a ray jet grooved cap on Plastro's Meteor adaptor (#46), fits spiked stakes. The Meteor adaptor is available with pressure-regulator.
- Optional: "Snap-Cap" deflector - a fan spray range-limiter which reduces water distribution pattern to a 90° or 180° limited range. Serves for watering young trees and as frost protection on young tree trunks.

Application:

- For undertree irrigation in fruit orchards



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Tornado Ray Jet - Performance Data

Nozzle Color & Size (mm)	Flow Rate (lph)**	Wetting Diameter (m)***	Lateral Pipe Diameter (O.D. mm)	Max. No. of Jet Sprayers on Irrigation Laterals* Spacing between Sprayers (m)										
				2.0	2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	
Black			16	26	24	22	21	20	19	18	18	17	16	
●	25	2.4	17.8	32	29	27	26	24	23	22	22	21	20	
0.9			20	40	37	34	33	31	30	28	27	27	26	
Blue			16	20	19	18	17	16	15	14	14	13	13	
●	34	3.2	17.8	25	23	21	20	19	18	18	17	16	16	
1.3			20	32	29	27	26	25	23	23	22	21	20	
Green			16	15	14	13	12	12	11	11	10	10	10	
●	55	3.6	17.8	19	17	16	15	14	14	13	13	12	12	
1.7			20	24	22	21	19	18	18	17	16	16	15	
Red			16	14	13	12	11	11	10	10	10	9	9	
●	70	4.2	17.8	18	16	15	14	13	13	12	12	11	11	
2.0			20	22	21	19	18	17	16	16	15	15	14	

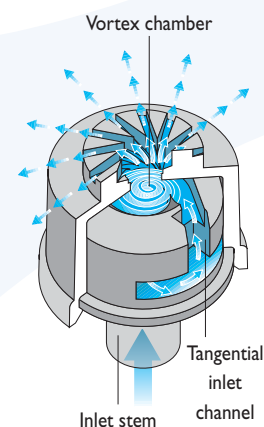
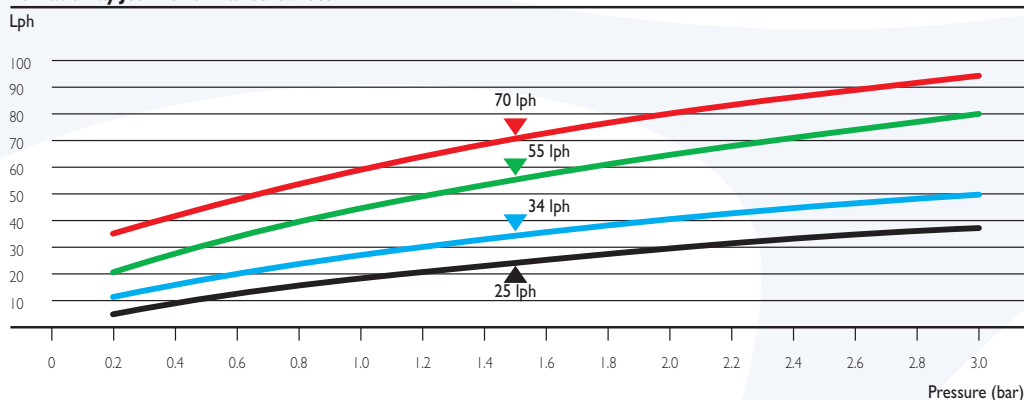
* At ± 5% flow variation

** Inlet pressure: 1.5 bar

*** Upright position, 25 cm above ground level (360° - 12 jet streams)



Tornado Ray Jet - Performance Curves



With "Snap-Cap"
180° fan spray
range limiter



Threaded
inlet stem



Conic
male stem

The data in this leaflet provides general information only. Plastro may redesign and/or modify its products, and may change the information contained herein. For design purposes, see and use Plastro's most updated manual for designers.