

# EXL Fogger Series 500

Single- and four-outlet foggers



## Ideal Solution for Greenhouses

The EXL 500 series single- and four-outlet foggers produce micro-sized droplets and are used for cooling, humidifying and climate control. Interchangeable nozzles allow for design flexibility and multiple watering options. The foggers can significantly reduce the temperature inside greenhouses or any closed structure, maintaining ideal temperature and humidity conditions.

### Application

- Incorporates a vortex mechanism, creating micro-sized droplets that evaporate quickly for climate control in overhead cooling and humidifying

### Features

- Designed without a bridge to prevent dripping
- Three-part construction with an O-ring for a tight seal

### Interchangeable

- Available on a 1/2" threaded base or completely assembled with 12" (30 cm), 24" (60 cm) or 36" (90 cm) of .160" ID x .270" OD micro tubing, a weight and an anti-leak device
- Interchangeable color-coded nozzles
- Can be used on an anti-leak device with one- or four-outlet head assemblies



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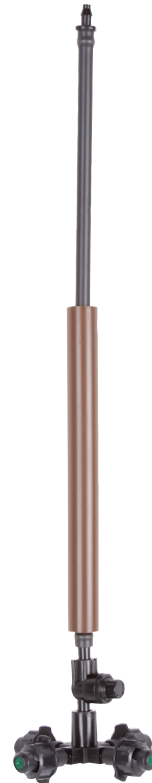


# EXL Fogger Series 500

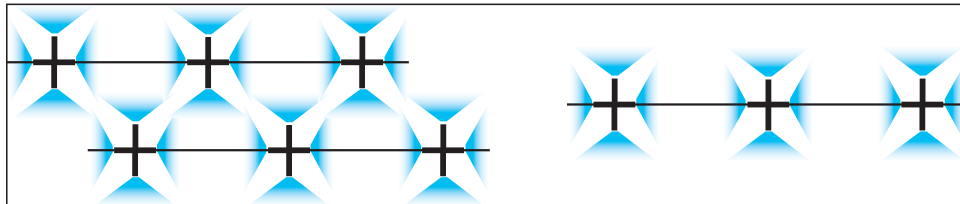
Single- and four-outlet foggers

## Technical Details

- Materials
  - male and female body: polyester
  - O-ring: Buna N
  - Nozzle: acetal
- Operating pressure: 35 to 80 PSI (2.4-5.5 BAR)
- Operating pressure w/ anti-leak: 50 to 80 PSI (3.5 to 5.5 BAR)
- Nominal flow rate at 50 PSI (3.5 BAR)
- Pattern: 360°
- Trajectory angle: approximately 30-35°
- Recommended spacing: 3' to 4' apart (.9 m to 1.2 m)
- Average droplet size is 50-100 microns
- Filter requirements: flow up to 1.5 GPH (6 L/h) w/ minimum of 200 mesh (80 microns), or flow up to 2 GPH (8 L/h) w/ minimum of 155 mesh (100 microns)
- Used only with anti-leak model 52-530-x
  - Setting: Arrow direction only w/ opening @ 33 to 39 PSI (2.3 to 2.7 BAR), and closing @ 20 to 23 PSI (1.4 to 1.6 BAR)



## Fogger Layout



### Performance at 6' (1.8 m) height

Nozzle colors	Black	Green	Brown	Gray
Performance at 50 PSI (3.5 BAR), single head				
Flow rate - GPH (LPH)	1.07 (4.05)	1.58 (5.98)	2.02 (7.65)	2.91 (11.02)
Wetting diameter - ft (m)	3.2 (1.0)	3.5 (1.1)	3.5 (1.1)	4.0 (1.2)
Rectangular spacing - ft x ft (m x m)	3 x 3 (0.9 x 0.9)	3 x 4 (0.9 x 1.2)	3 x 4 (0.9 x 1.2)	3 x 4 (0.9 x 1.2)
Application rate - in/h (mm/h)	0.10 (2.54)	0.12 (3.05)	0.13 (3.30)	0.18 (4.57)
Performance at 50 PSI (3.5 BAR), four-way head assembly				
Flow rates - GPH (LPH)	4.68 (17.72)	6.84 (25.93)	8.72 (33.01)	12.68 (48.00)
Rectangular spacing - ft x ft (m x m)	4 x 4 (1.2 x 1.2)	4 x 4 (1.2 x 1.2)	4 x 4 (1.2 x 1.2)	4 x 4 (1.2 x 1.2)
Application rate - in/h (mm/h)	0.47 (11.94)	0.68 (17.27)	0.87 (22.10)	1.27 (32.26)

### Flow rate & diameter

Model	50-501-13	50-501-20	50-501-25	50-501-35
Nozzle color	<b>Black</b>	<b>Green</b>	<b>Brown</b>	<b>Gray</b>
Nozzle size (in)	0.013	0.020	0.025	0.035
Flow rate (GPH)	1.0	1.5	2.0	3.0
Diameter (ft)	2.5	3.5	3.5	4.0
Misting angle	70°	70°	70°	80°
GPH at 30 PSI	0.85	1.26	1.58	2.21
GPH at 35 PSI	0.91	1.36	1.68	2.40
GPH at 40 PSI	0.98	1.49	1.83	2.61
GPH at 45 PSI	1.04	1.52	1.91	2.78
GPH at 50 PSI	1.07	1.58	2.02	2.91
GPH at 55 PSI	1.14	1.64	2.09	3.02
GPH at 60 PSI	1.17	1.71	2.18	3.17
GPH at 65 PSI	1.20	1.74	2.26	3.26
GPH at 70 PSI	1.26	1.82	2.31	3.42

### Flow rate & diameter

Model	50-501-13	50-501-20	50-501-25	50-501-35
Nozzle color	<b>Black</b>	<b>Green</b>	<b>Brown</b>	<b>Gray</b>
Nozzle size (mm)	0.33	0.51	0.64	0.89
Flow rate (LPH)	3.8	5.7	7.6	11.4
Diameter (m)	0.8	1.1	1.1	1.2
Misting angle	70°	70°	70°	80°
LPH at 2.1 BAR	3.21	4.77	5.98	8.37
LPH at 2.4 BAR	3.44	5.15	6.36	9.08
LPH at 2.8 BAR	3.71	5.64	6.93	9.88
LPH at 3.1 BAR	3.94	5.75	7.23	10.52
LPH at 3.4 BAR	4.05	5.98	7.65	11.02
LPH at 3.8 BAR	4.32	6.21	7.91	11.43
LPH at 4.1 BAR	4.43	6.47	8.25	12.00
LPH at 4.5 BAR	4.54	6.59	8.55	12.34
LPH at 4.8 BAR	4.77	6.89	8.74	12.95

## How to specify

Model	Description
50-501-xx	Single fogger assembly
50-501-xx-0	Single fogger assembly on 1/2" FNPT base
50-504-xx-12	4-way fogger assembly with 12" (30 cm) micro tubing, antileak device and weight
50-504-xx-24	4-way fogger assembly with 24" (60 cm) micro tubing, antileak device and weight
50-504-xx-36	4-way fogger assembly with 36" (90 cm) micro tubing, antileak device and weight
52-530-x	Anti-leak device (low pressure)
50-254-xx	Micro tubing assembly with weight
52-181-0	1/2" FNPT base
xx = flow rate	
example:	13 = 1 GPH flow rate
50-504-xx-12	20 = 1.5 GPH flow rate
	25 = 2 GPH flow rate
50-504-13-12	30 = 3 GPH flow rate