

BOOMINATOR[®]

BOOMLESS SPRAY NOZZLES



BOOMLESS SPRAY NOZZLES

BN226A Catalog

BOOMINATOR®

BOOMLESS SPRAY NOZZLES



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BOOMINATOR[®]

BOOMLESS SPRAY NOZZLES

BOOMINATOR[®] FEATURES

- All nozzles are MADE IN THE U.S.A.
- All nozzles carry a 3-YEAR LIMITED WARRANTY against defects in materials and workmanship.
- All Eco Series nozzles are made of Acetal Copolymer and T6063-T6 aluminum. No small orifices or slots to get plugged up.
- All industrial nozzles are 5-Axis CNC Machined from high grade stainless steel. No plastic parts or soft metals to wear out, break or replace. No small orifices or slots to get plugged up.
- All nozzles feature a patented round covered orifice design which improves spray pattern and distribution.
- All nozzles feature patented anti-drift technology.
- All nozzles are laser measured to ensure proper flow rate and spray pattern.

BOOMINATOR[®] BENEFITS

- Boominator[®] nozzles produce a very even large droplet pattern for minimal drift and better penetration.
- Boominator[®] nozzles can easily spray around obstacles & over uneven terrain.
- Boominator[®] nozzles eliminate the cost of spray booms & boom maintenance.
- Boominator[®] nozzles have superior wear and chemical resistance.
- Boominator[®] nozzles are designed to save time and money.

BOOMINATOR[®] APPLICATIONS

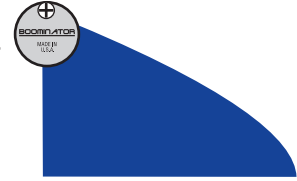
- ATV sprayers, tow behind sprayers.
- De-icing on roads, bridges, sidewalks, runways and parking lots.
- Spraying fence lines and right-of-ways.
- Dust suppression in mining, dirt track and street sweeping applications.
- Lawn, turf and nursery applications.
- Grass fire fighting.
- Ponds, lakes, canals. Aquatic pest and weed control.
- Insect control.
- Disinfecting and disease control in livestock and poultry barns.
- Pasture spraying.
- Roadside and Highway spraying.
- Forestry spraying.
- Ride-on sprayers.

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BOOMLESS SPRAY NOZZLES

Short Pattern Spray Nozzles

All Short Pattern Spray Nozzles were tested at a height of 18 inches. (Recommended operating height is between 12 & 36 inches.) These nozzles are designed for left-hand or right-hand mounting and provide an outward to straight downward spray pattern.

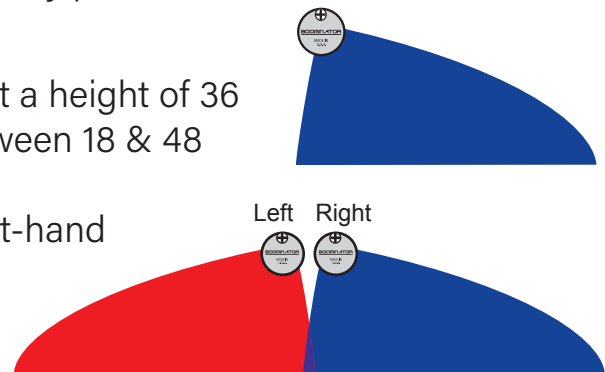


Regular Pattern Spray Nozzles

All Regular Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.)

These nozzles are designed for left-hand or right-hand mounting and provide a wide spray pattern with approximately 15° of kickback under the nozzle.

When using left-hand and right-hand nozzle together, adjust the nozzles to allow for enough kickback overlap between the nozzles to prevent streaking in spray coverage. Nozzles can be rotated to adjust distance of spray pattern outward or amount of kickback under the nozzle.

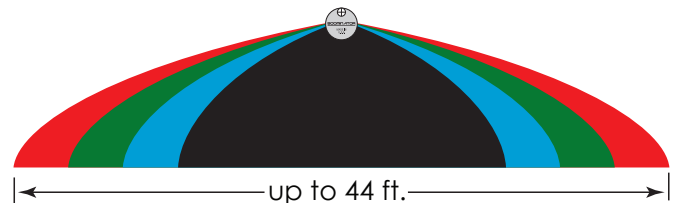


Full Pattern Spray Nozzles

All Full Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.)

These nozzles are designed to provide a full left-hand to right-hand spray pattern from a single centrally mounted nozzle.

FL - Full Long - 180°
FM - Full Medium - 160°
FS - Full Short - 140°
FSS - Full Super Short - 120°



Roadside Spray Nozzles

All Roadside Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.) These nozzles are designed for right-hand mounting ONLY and provide a wide spray pattern without kickback under the nozzle. These nozzles are designed for road-side and right-of-way spraying.



Spraying Safety

ALWAYS WEAR PROTECTIVE CLOTHING WHEN SPRAYING AND / OR HANDLING ANY AND ALL CHEMICALS.

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BOOMLESS SPRAY NOZZLES

Nozzle Installation Tips and Operation

Nozzle Height Adjustment

Nozzles can be used at various heights within the recommended range. However, this will affect the spray pattern width and the gallons per acre (GPA) applied.

Multi-Pass Spraying

When multi-pass spraying, be sure to overlap the ends of spray patterns 12 - 16 inches to ensure even coverage.



Adverse Wind Conditions

With boomless spray nozzles, as with other spraying methods, high or gusty wind conditions can cause drifting or pattern movements, adversely affecting spray coverage. If this occurs, wait for more favorable conditions before continuing.

Plumbing Requirements

Make sure that all plumbing and feed lines can properly supply the nozzle or nozzles at their rated GPM and PSI. The type of pump used and the length of the discharge hose will affect the volume and pressure delivered to the nozzle or nozzles.

Minimum hose size requirements are

1 - 1/4" MNPT Nozzle.....1/2" ID Hose	2 - 1/4" MNPT Nozzles..... 5/8" ID Hose
1 - 1/2" MNPT Nozzle.....3/4" ID Hose	2 - 1/2" MNPT Nozzles..... 1" ID Hose
1 - 1" MNPT Nozzle.....1-1/4" ID Hose	2 - 1" MNPT Nozzles..... 1-1/2" ID Hose

Nozzle Mounting Center Distance

To insure proper kickback overlap between the two nozzles and spray distance outward when mounting a pair of regular pattern nozzles together these are the recommended nozzle center distances.

2 - 1/4" Nozzles	3" - 4" Center Distance
2 - 1/2" Nozzles.....	6" - 7" Center Distance
2 - 1" Nozzles.....	8" - 9" Center Distance

Nozzle Combinations for Roadside and Right-of-Way Spraying

Speed	Nozzle Combination	Speed	Nozzle Combination
2 to 12 MPH	1 - 1255 Right	5 to 15 MPH	1 - 1876 Right
	1 - 1871 Right		1 - 2651 Right
	1 - 2650RS		1 - 3750RS

For roadside and right-of-way spraying at these speeds, nozzles with patterns of 6 feet or less should be mounted 12" - 24" above the ground. Larger patterns should be mounted 18" - 48" above the ground.

Nozzle Spray Coverage Calculations

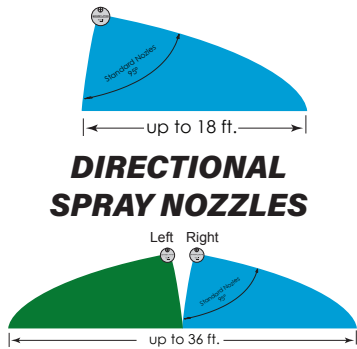
$$\text{Gallons per 1,000 sq. ft.} = \frac{\text{GPM} \times 136}{\text{MPH} \times \text{Spray width in inches}}$$

$$\text{Gallons per Acre} = \frac{\text{GPM} \times 5940}{\text{MPH} \times \text{Spray width in inches}}$$

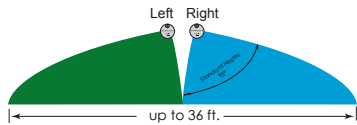
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ECO SERIES Spray Nozzles

All Eco Series Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 12 & 36 inches.) Fresh water used for all testing.






DIRECTIONAL SPRAY NOZZLES

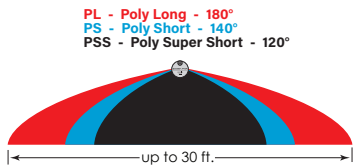


LEFT/RIGHT COMBINATION





When Ordering, Please Specify **LEFT** or **RIGHT** Spray Pattern.


Example: 1200PSR = Right
1200PSL = Left

				SPEED (MPH)						
				1	2	3	4	5	6	7
1200PSL (Left) 1200PSR (Right)  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	20	1.0	14 ft.	35	18	12	9	7	6	5
	30	1.2	14 ft.	42	21	14	10	8	7	6
	40	1.4	14 ft.	49.5	25	16.5	12	10	8	7
1400PSL (Left) 1400PSR (Right)  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	20	1.7	15 ft.	56	28	19	14	11	9	8
	30	2.0	15 ft.	66	33	22	16.5	13	11	9.5
	40	2.5	15 ft.	82.5	41	27.5	20.5	16.5	13.5	12
1870PSL (Left) 1870PSR (Right)  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	20	3.0	18 ft.	82	41	28	21	17	14	12
	30	3.5	18 ft.	96	48	32	24	19	16	14
	40	4.3	18 ft.	118	59	39	30	24	20	17



FULL PATTERN SPRAY NOZZLES

				SPEED (MPH)						
				1	2	3	4	5	6	7
1200PSS FULL PATTERN  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	15	0.9	10 ft.	44.5	22	15	11	9	7.5	6
	20	1	10 ft.	49.5	25	16.5	12	10	8	7
	25	1.1	10 ft.	54.5	27	18	13.5	11	9	7.5
1200PS FULL PATTERN  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	20	1.0	14 ft.	35	18	12	9	7	6	5
	30	1.2	14 ft.	42	21	14	10	8	7	6
	40	1.4	14 ft.	49.5	25	16.5	12	10	8	7
1400PS FULL PATTERN  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	20	1.7	14 ft.	60	30	20	15	12	10	8.5
	30	2.0	14 ft.	70	35	24	18	14	12	10
	40	2.5	14 ft.	88	44	29	22	18	15	12.5
1400PL FULL PATTERN  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE						
	20	2.0	25 ft.	49.5	25	16.5	12	10	8	7
	30	2.4	25 ft.	60	30	20	15	12	10	8.5
	40	2.8	25 ft.	70	35	23	17	14	11.5	10

				SPEED (MPH)											
				2	3	4	5	6	7	8	9	10	11	12	
1870PL FULL PATTERN  1/4" MNPT	PSI	GPM	SPRAY PATTERN	GALLONS PER ACRE											
	20	3.0	30 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4	
	30	3.5	30 ft.	29	19	14	12	10	8	7	6	5.5	5	4.5	
	40	4.3	30 ft.	36	25	18	14	12	10	9	8	7	6.5	6	

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SHORT Pattern Directional Spray Nozzles

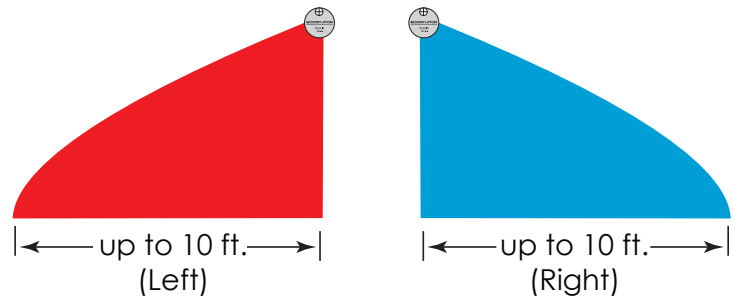
When Ordering, Please Specify **LEFT** or **RIGHT** Spray Pattern. Examples: 1165L = LEFT Pattern
1165R = RIGHT Pattern







Short Pattern Spray Nozzles

All Short Pattern Spray Nozzles were tested at a height of 18 inches. (Recommended operating height is between 12 & 36 inches.) Fresh water used for all testing.

These nozzles are designed for left-hand or right-hand mounting and provide an outward to straight downward spray pattern.










1165L (Left) 1165R (Right)	PSI	GPM	SPRAY PATTERN	SPEED (MPH)											
				2	3	4	5	6	7	8	9	10	11	12	
 1/4" MNPT	20	1.0	5 ft.	49.5	33	24.5	20	16.5	14	12	11	10	9	8	
	30	1.2	5 ft.	59.5	39.5	30	23.5	20	17	15	13	12	11	10	
	40	1.4	5 ft.	69.5	46	34.5	27.5	23	20	17	15.5	14	12.5	11.5	
1253L (Left) 1253R (Right)	PSI	GPM	SPRAY PATTERN	SPEED (MPH)											
				2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
 1/4" MNPT	20	1.5	3 ft.	124	83	62	50	41	35	31	28	25	23	21	
	30	1.7	3 ft.	140	94	70	56	47	40	35	31	28	26	23	
	40	2.0	3 ft.	165	110	83	66	55	47	41	37	33	30	28	
1255L (Left) 1255R (Right)	PSI	GPM	SPRAY PATTERN	SPEED (MPH)											
				2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
 1/4" MNPT	20	1.5	5 ft.	74	50	37	30	25	21	19	17	15	14	12	
	30	1.7	5 ft.	84	56	42	34	28	24	21	19	17	15	14	
	40	2.0	5 ft.	99	66	50	40	33	28	25	22	20	18	17	
1404L (Left) 1404R (Right)	PSI	GPM	SPRAY PATTERN	SPEED (MPH)											
				2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
 1/4" MNPT	20	1.7	4 ft.	105	70	53	42	35	30	26	23	21	19	18	
	30	2.0	4 ft.	124	83	62	50	41	35	31	28	25	23	21	
	40	2.5	4 ft.	155	103	77	62	52	44	39	34	31	28	26	

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SHORT Pattern Directional Spray Nozzles

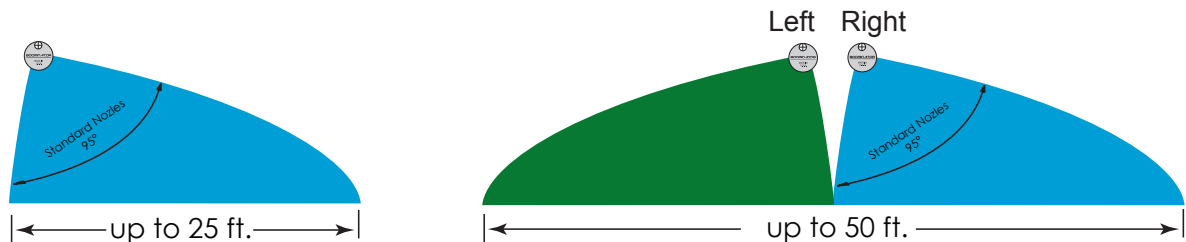
When Ordering, Please Specify LEFT or RIGHT Spray Pattern. Example - 2651L = Left Pattern

 <p>1406L (Left) 1406R (Right)</p> <p>1/4 MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	1.7	6 ft.	70	47	35	28	23	20	18	16	14	13	12
30	2.0	6 ft.	83	55	41	33	28	24	21	18	17	15	14	
40	2.5	6 ft.	103	69	52	41	34	30	26	23	21	19	17	
 <p>1876L (Left) 1876R (Right)</p> <p>1/4" MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3.0	6 ft.	124	83	62	50	41	35	31	28	25	23	21
30	3.5	6 ft.	144	96	72	58	48	41	36	32	29	26	24	
40	4.3	6 ft.	177	118	89	71	59	51	44	39	35	32	30	
 <p>1871L (Left) 1871R (Right)</p> <p>1/4" MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3.0	10 ft.	74	50	37	30	25	21	19	17	15	14	13
30	3.5	10 ft.	87	58	43	35	29	25	22	19	17	16	15	
40	4.3	10 ft.	106	71	53	43	35	30	27	24	21	19	18	
 <p>2651L (Left) 2651R (Right)</p> <p>1/2" MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	6.7	10 ft.	166	111	83	66	55	47	41	37	33	30	28
30	7.5	10 ft.	186	124	93	74	62	53	46	41	37	34	31	
40	8.5	10 ft.	210	140	105	84	70	60	53	47	42	38	35	
 <p>3121L (Left) 3121R (Right)</p> <p>1/2" MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	7.2	10 ft.	178	119	89	71	59	51	45	40	36	32	30
30	9.0	10 ft.	223	149	111	89	74	64	56	50	45	41	37	
40	10.6	10 ft.	262	175	131	105	87	75	66	58	52	48	44	
 <p>3751L (Left) 3751R (Right)</p> <p>1/2" MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	12	10 ft.	297	198	148.5	119	99	85	74	66	59.5	54	49.5
30	14	10 ft.	346.5	231	173	138.5	115.5	99	86.5	77	69	63	58	
40	15	10 ft.	371	247.5	185.5	148.5	124	106	93	82.5	74	67.5	62	
 <p>4371L (Left) 4371R (Right)</p> <p>1/2" MNPT</p>				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	13.0	10 ft.	322	214.5	161	128.5	107	92	80.5	71.5	64	58.5	53.5
30	15.5	10 ft.	383.5	256	192	153.5	128	109.5	96	85	76.5	70	64	
40	17.5	10 ft.	433	289	216.5	173	144.5	124	108	96	86.5	79	72	

BOOMINATOR®

REGULAR Pattern Directional Spray Nozzles

When Ordering, Please Specify **LEFT** or **RIGHT** Spray Pattern. Examples: 1870L = LEFT Pattern
1870R = RIGHT Pattern




Regular Pattern Spray Nozzles


All Regular Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 18 & 48 inches.) Fresh water used for all testing.


These nozzles are designed for left-hand or right-hand mounting and provide a wide spray pattern with approximately 15° of kickback under the nozzle.


When using left-hand and right-hand nozzle together, adjust nozzles to allow for enough kickback overlap between the nozzles to prevent streaking in spray coverage.

Nozzles can be rotated to adjust distance of spray pattern outward or amount of kickback under the nozzle.

1160L (Left) 1160R (Right)				SPEED (MPH)					
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7
				GALLONS PER ACRE					
 1/4" MNPT	20	1.0	16 ft.	15.5	10	8	6	5	4.5
	30	1.2	16 ft.	18.5	12.5	9	7.5	6	5.5
	40	1.4	16 ft.	21.5	14.5	11	8.5	7	6

1250L (Left) 1250R (Right)				SPEED (MPH)					
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7
				GALLONS PER ACRE					
 1/4" MNPT	20	1.5	16 ft.	23	16	12	9	8	7
	30	1.7	16 ft.	26	18	13	11	9	8
	40	2.0	16 ft.	31	21	16	12	10	9

1400L (Left) 1400R (Right)				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
 1/4" MNPT	20	1.7	17 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
	30	2.0	17 ft.	30	19	15	12	10	8	7	6.5	6	5	4.5
	40	2.5	17 ft.	36	24	18	15	12	10	9	8	7	6.5	6








1870L (Left) 1870R (Right)				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
 1/4" MNPT	20	3.0	18 ft.	41	28	21	17	14	12	10	9	8	7.5	7	
	30	3.5	18 ft.	48	32	24	19	16	14	12	11	10	9	8	
	40	4.3	18 ft.	59	39	30	24	20	17	15	13	12	11	10	



BOOMINATOR®

REGULAR Pattern Directional Spray Nozzles









When Ordering, Please Specify *LEFT* or *RIGHT* Spray Pattern. Examples: 1870L = LEFT Pattern
1870R = RIGHT Pattern

 2280L (Left) 2280R (Right) 1/2" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
	20	4.8	18 ft.	66	44	33	26	22	19	16	14	13	12	10	
	30	6.0	18 ft.	83	55	41	33	28	24	21	18	16	15	14	
40	6.9	18 ft.	95	63	47	38	31	27	24	21	19	17	16		
 2650L (Left) 2650R (Right) 1/2" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
	20	6.7	20 ft.	83	55	41	33	28	24	21	18	16	15	14	
	30	7.5	20 ft.	93	62	46	37	32	26	23	20	18	17	15	
40	8.5	20 ft.	105	70	52	42	35	30	26	23	21	19	17		
 3120L (Left) 3120R (Right) 1/2" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
	20	7.2	21 ft.	85	56	42	34	28	24	21	19	17	15	14	
	30	9.0	21 ft.	106	71	53	42	35	30	26	23	21	19	17	
40	10.6	21 ft.	125	83	62	50	41	36	31	28	25	23	21		
 3750L (Left) 3750R (Right) 1/2" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
	20	12.0	23 ft.	129	86	64	51	43	37	32	29	26	24	22	
	30	15.0	23 ft.	161	108	81	64	54	46	40	36	32	29	27	
40	16.3	23 ft.	175	117	88	70	58	50	44	39	35	32	29		
 4370L (Left) 4370R (Right) 1/2" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
	20	13.8	25 ft.	137	91	68	54	45	39	34	30	27	25	23	
	30	15.6	25 ft.	154	103	77	62	51	44	39	34	31	28	26	
40	18	25 ft.	178	119	89	71	59	51	45	40	35	33	30		
 5000L (Left) 5000R (Right) 1" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12	
				GALLONS PER ACRE											
	20	17	25 ft.	168	112	84	67	56	48	42	37	34	31	28	
	30	20	25 ft.	198	132	99	79	66	57	50	44	40	36	33	
40	23	25 ft.	228	152	114	91	76	65	57	51	46	41	38		
 6250L (Left) 6250R (Right) 1" MNPT				SPEED (MPH)											
	PSI	GPM	SPRAY PATTERN	4	6	8	10	12	14	16	18	20	22	24	
				GALLONS PER ACRE											
	20	21	25 ft.	104	69	52	42	35	30	26	23	21	19	17	
	30	25	25 ft.	124	83	62	50	41	35	31	28	25	23	21	
40	29	25 ft.	144	96	72	57	48	41	36	32	29	26	24		

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FULL Pattern Spray Nozzles

These nozzles are designed to provide a full left-hand to right-hand spray pattern from a single centrally mounted nozzle. See Page 2 for Spray Pattern information.

1250FSS FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	1.5	10 ft	37	25	18.5	15	12.5	10.5	9.5	8.5	7.5	7	6
	30	1.7	10 ft	42	28	21	17	14	12	10.5	9.5	8.5	7.5	7
	40	2	10 ft	49.5	33	25	20	16.5	14	12.5	11.00	10	9	8.5
1250FS FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	1	2	3	4	5	6	7				
				GALLONS PER ACRE										
	20	1.5	16 ft.	46	23	16	12	8	7.5	6.5				
	30	1.7	16 ft.	53	26	18	13	11	9	8				
	40	2.0	16 ft.	62	31	21	16	12	10	9				
1400FSS FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	1.7	10 ft	42	28	21	17	14	12	10.5	9.5	8.5	7.5	7
	30	2	10 ft	49.5	33	25	20	16.5	14	12.5	11	10	9	8.5
	40	2.5	10 ft	62	41.5	31	25	20.5	17.5	15.5	14	12.5	11.5	10.5
1400FS FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	1.7	17 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
	30	2.0	17 ft.	29	19	15	12	10	8	7	6.5	6	5	4.5
	40	2.5	17 ft.	36	24	18	15	12	10	9	8	7	6.5	6
1400FM FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	1.7	22 ft.	19	13	10	8	6	5.5	5	4.5	4	3.5	3
	30	2.0	22 ft.	23	15	11	9	8	6	5.5	5	4.5	4	3.5
	40	2.5	22 ft.	28	19	14	11	9	8	7	6	5.5	5	4.5
1870FSS FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3.0	10 ft.	74.5	49.5	37	29.5	25	21	18.5	16.5	15	13.5	12.5
	30	3.5	10 ft.	86.5	57.5	43	34.5	28.5	25	21.5	19	17	16	14.5
	40	4.3	10 ft.	106.5	71	53	42.5	35.5	30.5	26.5	23.5	21	19	17.5
1870FS FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3.0	18 ft.	41	28	21	17	14	12	10	9	8	7.5	7
	30	3.5	18 ft.	48	32	24	19	16	14	12	11	10	9	8
	40	4.3	18 ft.	59	39	30	24	20	17	15	13	12	11	10


BOOMINATOR®


FULL Pattern Spray Nozzles


1870FM FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3.0	23 ft.	32	22	16	13	10	9	8	7	6.5	6	5
	30	3.5	23 ft.	38	25	19	15	13	11	9	8	7.5	7	6
	40	4.3	23 ft.	46	31	23	19	15	13	12	10	9	8	7.5
1870FL FULL PATTERN  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3.0	30 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
	30	3.5	30 ft.	29	19	14	12	10	8	7	6	5.5	5	4.5
	40	4.3	30 ft.	36	25	18	14	12	10	9	8	7	6.5	6
2280FM FULL PATTERN  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	4.8	23 ft.	52	34	26	21	17	15	13	11	10	9	8.5
	30	6.0	23 ft.	64	43	32	26	21	18	16	14	13	12	11
	40	6.9	23 ft.	74	50	37	30	25	21	19	16.5	15	13.5	12
2280FL FULL PATTERN  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	4.8	30 ft.	40	26	20	16	13	11	10	9	8	7	6.5
	30	6.0	30 ft.	49.5	33	25	20	16.5	14	12	11	10	9	8
	40	6.9	30 ft.	57	38	28	22	19	16	14	12.5	11	10	9.5
2650FSS FULL PATTERN  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	6.7	10 ft.	166	110.5	83	66.5	55	47.5	41.5	37	33	30	27.5
	30	7.5	10 ft.	185	124	93	74	62	53	46.5	41	37	34	31
	40	8.5	10 ft.	210	140	105	84	70	60	52.5	47	42	38	35
2650FS FULL PATTERN  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	6.7	16 ft.	104	69	52	41	34.5	30	26	23	21	19	17
	30	8.0	16 ft.	124	82.5	52	50	41	35	31	27.5	25	22.5	21
	40	10.0	16 ft.	155	103	77	62	51.5	44	39	34	31	28	26
2650FM FULL PATTERN  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	6.7	23 ft.	72	48	36	29	24	20.5	18	16	14	13	12
	30	8.0	23 ft.	86	57	43	34	29	24.5	21.5	19	17	16	14
	40	10.0	23 ft.	108	72	54	43	36	31	27	24	21.5	19.5	18


BOOMINATOR®


FULL Pattern Spray Nozzles


2650FL FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	6.7	38 ft.	43.5	29	22	17.5	14.5	12.5	11	10	9	8	7	
30	8.0	38 ft.	52	35	26	21	17	15	13	11.5	10.5	9.5	9	
40	10.0	38 ft.	65	43	32.5	26	22	18.5	16	14.5	13	12	11	


3120FS FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	11.3	23 ft.	122	81	61	49	40	37	30	27	24	22	20	
30	13.0	23 ft.	140	93	70	56	47	43	35	31	28	25	23	
40	15.0	23 ft.	161	108	81	65	54	50	41	36	32	29	27	

3120FM FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	11.3	27 ft.	104	69	52	41	35	30	26	23	21	19	17	
30	13.0	27 ft.	119	79	60	48	40	34	30	26	24	22	20	
40	15.0	27 ft.	138	92	69	55	46	39	34	30	28	25	23	

3120FL FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	11.3	40 ft.	70	47	35	28	23	20	17.5	15.5	14	13	11.5	
30	13.0	40 ft.	80	54	40	32	27	23	20	18	16	14.5	13.5	
40	15.0	40 ft.	93	62	46.5	37	31	26.5	23	20.5	18.5	17	15.5	

3750FS FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	13.8	30 ft.	114	76	57	46	38	33	28	25	23	21	19	
30	16.4	30 ft.	135	90	68	54	45	39	34	30	27	25	23	
40	18.0	30 ft.	149	99	74	59	50	42	37	33	30	27	25	

3750FM FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	13.8	40 ft.	85	57	43	34	28	24	21	19	17	16	14	
30	16.4	40 ft.	101	68	51	41	34	29	25	23	20	18	17	
40	18.0	40 ft.	111	74	56	45	37	32	28	25	23	20	18	

4370FL FULL PATTERN  1/2" MNPT	PSI	GPM	SPRAY PATTERN	SPEED (MPH)										
				2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
20	16.3	44 ft.	92	61	46	37	31	26	23	20	18	17	15	
30	20.0	44 ft.	113	75	56	45	38	32	28	25	23	20	19	
40	24.0	44 ft.	135	90	68	54	45	39	34	30	27	25	23	

BOOMINATOR®

ROADSIDE Pattern Spray Nozzles

Roadside Nozzles are available in **RIGHT** Spray Pattern models **ONLY**.

All Roadside Pattern Spray Nozzles were tested at a height of 36 inches. (Recommended operating height is between 12 & 48 inches.) Fresh water used for all testing.

1250RS RIGHT ONLY  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	1	2	3	4	5	6	7				
				GALLONS PER ACRE										
	20	1.5	16 ft.	46	23	16	12	9	8	7				
	30	1.7	16 ft.	53	26	18	13	11	9	8				
	40	2.0	16 ft.	62	31	21	16	12	10	9				
1400RS RIGHT ONLY  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	1.7	17 ft.	25	17	12	10	8	7	6	5.5	5	4.5	4
	30	2.0	17 ft.	30	19	15	12	10	8	7	6.5	6	5	4.5
	40	2.5	17 ft.	36	24	18	15	12	10	9	8	7	6.5	6
1870RS RIGHT ONLY  1/4" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	3	18 ft.	41	28	21	17	14	12	10	9	8	7.5	7
	30	3.5	18 ft.	48	32	24	19	16	14	12	11	10	9	8
	40	4.3	18 ft.	59	39	30	24	20	17	15	13	12	11	10
2650RS RIGHT ONLY  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	6.7	20 ft.	83	55	41	33	28	24	21	18	16	15	14
	30	7.5	20 ft.	93	62	46	37	32	26	23	20	18	17	15
	40	8.5	20 ft.	105	70	52	42	35	30	26	23	21	19	17
3120RS RIGHT ONLY  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	7.2	21 ft.	85	56	42	34	28	24	21	19	17	15	14
	30	9	21 ft.	106	71	53	42	35	30	26	23	21	19	17
	40	10.6	21 ft.	125	83	62	50	41	36	31	28	25	23	21
3750RS RIGHT ONLY  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	12	23 ft.	129	86	64	51	43	37	32	29	26	24	22
	30	15	23 ft.	161	108	81	64	54	46	40	36	32	29	27
	40	16.3	23 ft.	175	117	88	70	58	50	44	39	35	32	29
4370RS RIGHT ONLY  1/2" MNPT				SPEED (MPH)										
	PSI	GPM	SPRAY PATTERN	2	3	4	5	6	7	8	9	10	11	12
				GALLONS PER ACRE										
	20	13.8	25 ft.	137	91	68	54	45	39	34	30	27	25	23
	30	15.6	25 ft.	154	103	77	62	51	44	39	34	31	28	26
	40	18	25 ft.	178	119	89	71	59	51	45	40	35	33	30

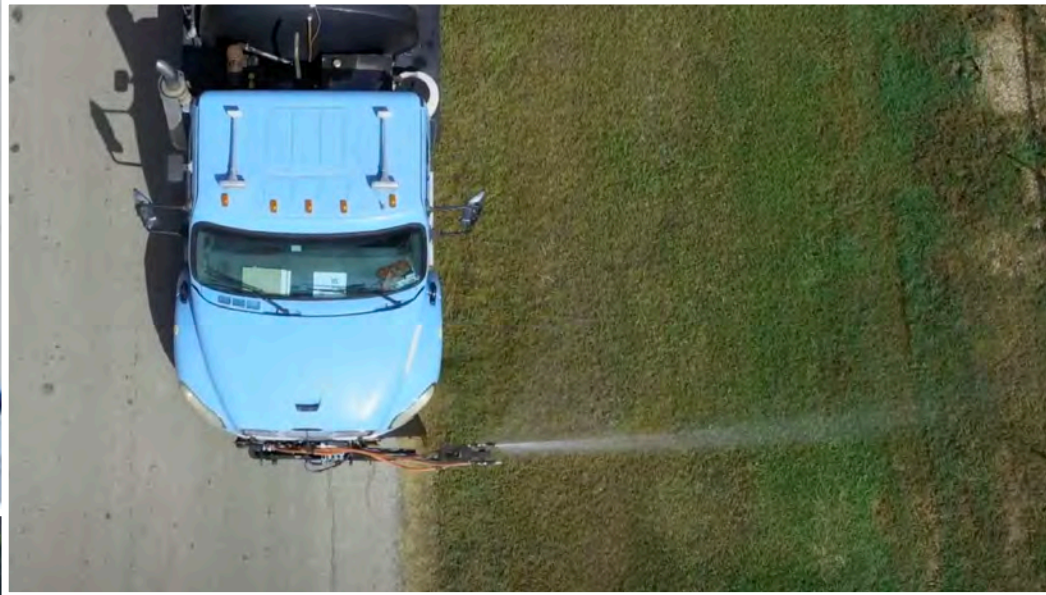


BOOMINATOR®

BOOMLESS SPRAY NOZZLES

TROUBLESHOOTING GUIDE

PROBLEM	CAUSE	REMEDY
<ul style="list-style-type: none"> - SPRAY PATTERN TOO SHORT 	<ol style="list-style-type: none"> 1. Spray pressure too low 2. Nozzle mounted too low 3. Plumbing components and lines too small 4. Spray pump too small 	<ol style="list-style-type: none"> 1. Re-adjust spray pressure 2. Verify/adjust nozzle mounting height 3. Verify plumbing size. Replace if needed. 4. Verify pump size. Replace if needed.
<ul style="list-style-type: none"> - END OF SPRAY PATTERN TOO HEAVY 	<ol style="list-style-type: none"> 1. Spray pressure too low 2. Plumbing components and lines too small 3. Spray pump too small 	<ol style="list-style-type: none"> 1. Re-adjust spray pressure 2. Verify plumbing size. Replace if needed. 3. Verify pump size. Replace if needed.
<ul style="list-style-type: none"> - CENTER OF SPRAY PATTERN TOO LIGHT 	<ol style="list-style-type: none"> 1. Spray pressure too high 2. Spray pressure too low 3. Spray pump too small 	<ol style="list-style-type: none"> 1. Re-adjust spray pressure 2. Re-adjust spray pressure 3. Verify pump size. Replace if needed.
<ul style="list-style-type: none"> - SPRAY PATTERN DOES NOT MEET IN THE MIDDLE. (for LEFT/RIGHT combination) 	<ol style="list-style-type: none"> 1. Spray pressure too low 2. Plumbing components and lines too small 3. Nozzles spacing too great 4. Incorrect nozzle alignment 	<ol style="list-style-type: none"> 1. Re-adjust spray pressure 2. Verify plumbing size. Replace if needed. 3. Refer to nozzle spacing chart on Page 3. Adjust as needed. 4. Adjust nozzles for correct spray pattern overlap
<ul style="list-style-type: none"> - SPRAY PATTERN TOO LONG 	<ol style="list-style-type: none"> 1. Spray pressure too high 2. Spray nozzle mounter higher than tested height 	<ol style="list-style-type: none"> 1. Re-adjust spray pressure 2. Verify nozzle height. Adjust as needed
<ul style="list-style-type: none"> - EXCESSIVE DRIFT OR SPRAY PATTERN SHIFT 	<ol style="list-style-type: none"> 1. Spray pressure too high 2. Adverse wind conditions 	<ol style="list-style-type: none"> 1. Re-adjust spray pressure 2. Wait for wind conditions to improve



BOOMINATOR®

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