

# BOOMINATOR<sup>®</sup>

BOOMLESS SPRAY NOZZLES



**BOOMLESS SPRAY NOZZLES**

2025 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**

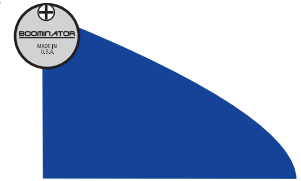
- ATV sprayers, tow behind sprayers.
- De-icing on roads, bridges, sidewalks, runways and parking lots.
- Spraying fence lines and right-of-ways.
- Dust suppression in mining, dirt track and street sweeping applications.
- Lawn, turf and nursery applications.
- Grass fire fighting.
- Ponds, lakes, canals. 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.

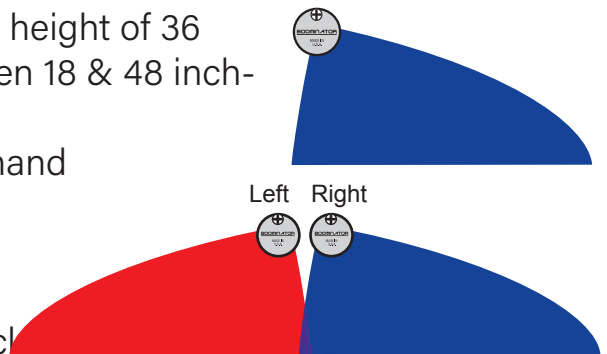


### Regular Pattern Spray Nozzles

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 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.



### 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

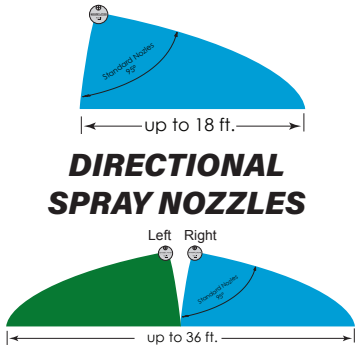
$$\text{Gallons per 1,000 sq. ft.} = \frac{\text{GPM} \times 136}{\text{MPH} \times \text{Spray width in inches}}$$

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

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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.



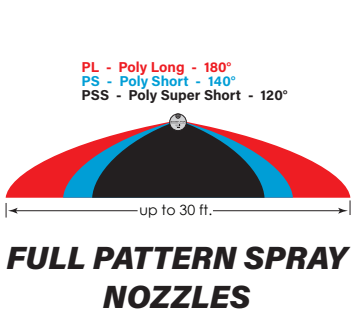
| 1200PSL (Left)<br>1200PSR (Right) |     |        |               | SPEED (MPH)      |      |        |    |    |    |   |
|-----------------------------------|-----|--------|---------------|------------------|------|--------|----|----|----|---|
| 1/4" MNPT                         | PSI | GPM    | SPRAY PATTERN | 1                | 2    | 3      | 4  | 5  | 6  | 7 |
|                                   |     |        |               | GALLONS PER ACRE |      |        |    |    |    |   |
|                                   |     |        |               | 20               | 1.0  | 14 ft. | 35 | 18 | 12 | 9 |
| 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)<br>1400PSR (Right) |     |        |               | SPEED (MPH)      |      |        |      |      |     |    |
|-----------------------------------|-----|--------|---------------|------------------|------|--------|------|------|-----|----|
| 1/4" MNPT                         | PSI | GPM    | SPRAY PATTERN | 1                | 2    | 3      | 4    | 5    | 6   | 7  |
|                                   |     |        |               | GALLONS PER ACRE |      |        |      |      |     |    |
|                                   |     |        |               | 20               | 1.7  | 15 ft. | 56   | 28   | 19  | 14 |
| 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)<br>1870PSR (Right) |     |        |               | SPEED (MPH)      |     |        |    |    |    |    |
|-----------------------------------|-----|--------|---------------|------------------|-----|--------|----|----|----|----|
| 1/4" MNPT                         | PSI | GPM    | SPRAY PATTERN | 1                | 2   | 3      | 4  | 5  | 6  | 7  |
|                                   |     |        |               | GALLONS PER ACRE |     |        |    |    |    |    |
|                                   |     |        |               | 20               | 3.0 | 18 ft. | 82 | 41 | 28 | 21 |
| 30                                | 3.5 | 18 ft. | 96            | 48               | 32  | 24     | 19 | 16 | 14 |    |
| 40                                | 4.3 | 18 ft. | 118           | 59               | 39  | 30     | 24 | 20 | 17 |    |



| 1200PSS FULL PATTERN |     |        |               | SPEED (MPH)      |      |        |      |    |     |    |
|----------------------|-----|--------|---------------|------------------|------|--------|------|----|-----|----|
| 1/4" MNPT            | PSI | GPM    | SPRAY PATTERN | 1                | 2    | 3      | 4    | 5  | 6   | 7  |
|                      |     |        |               | GALLONS PER ACRE |      |        |      |    |     |    |
|                      |     |        |               | 15               | 0.9  | 10 ft. | 44.5 | 22 | 15  | 11 |
| 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 |     |        |               | SPEED (MPH)      |      |        |    |    |    |   |
|---------------------|-----|--------|---------------|------------------|------|--------|----|----|----|---|
| 1/4" MNPT           | PSI | GPM    | SPRAY PATTERN | 1                | 2    | 3      | 4  | 5  | 6  | 7 |
|                     |     |        |               | GALLONS PER ACRE |      |        |    |    |    |   |
|                     |     |        |               | 20               | 1.0  | 14 ft. | 35 | 18 | 12 | 9 |
| 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 |     |        |               | SPEED (MPH)      |     |        |    |    |      |    |
|---------------------|-----|--------|---------------|------------------|-----|--------|----|----|------|----|
| 1/4" MNPT           | PSI | GPM    | SPRAY PATTERN | 1                | 2   | 3      | 4  | 5  | 6    | 7  |
|                     |     |        |               | GALLONS PER ACRE |     |        |    |    |      |    |
|                     |     |        |               | 20               | 1.7 | 14 ft. | 60 | 30 | 20   | 15 |
| 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 |     |        |               | SPEED (MPH)      |     |        |      |      |      |    |
|---------------------|-----|--------|---------------|------------------|-----|--------|------|------|------|----|
| 1/4" MNPT           | PSI | GPM    | SPRAY PATTERN | 1                | 2   | 3      | 4    | 5    | 6    | 7  |
|                     |     |        |               | GALLONS PER ACRE |     |        |      |      |      |    |
|                     |     |        |               | 20               | 2.0 | 25 ft. | 49.5 | 25   | 16.5 | 12 |
| 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   |    |

| 1870PL FULL PATTERN |     |        |               | SPEED (MPH)      |     |        |    |    |    |    |     |     |     |     |   |
|---------------------|-----|--------|---------------|------------------|-----|--------|----|----|----|----|-----|-----|-----|-----|---|
| 1/4" MNPT           | 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 |
| 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   |     |   |

# BOOMINATOR®

## SHORT Pattern Directional Spray Nozzles

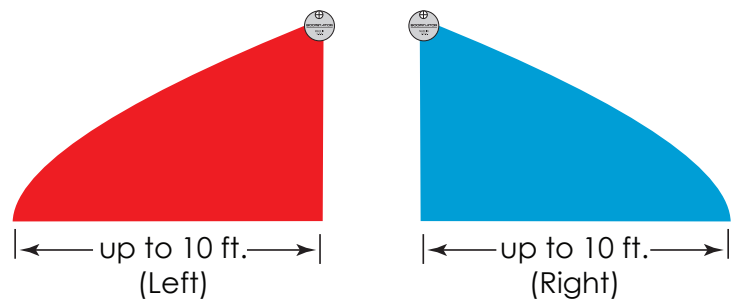
When Ordering, Please Specify **LEFT** or **RIGHT** Spray Pattern. Examples: 1165L = LEFT Pattern  
1165R = RIGHT Pattern







### 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)<br>1165R (Right)  | PSI | GPM | SPRAY<br>PATTERN | SPEED (MPH)      |      |      |      |      |    |    |      |    |      |      |  |
|--|-----|-----|------------------|------------------|------|------|------|------|----|----|------|----|------|------|--|
|  |     |     |                  | 2                | 3    | 4    | 5    | 6    | 7  | 8  | 9    | 10 | 11   | 12   |  |
| <br>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)<br>1253R (Right)  | PSI | GPM | SPRAY<br>PATTERN | SPEED (MPH)      |      |      |      |      |    |    |      |    |      |      |  |
|  |     |     |                  | 2                | 3    | 4    | 5    | 6    | 7  | 8  | 9    | 10 | 11   | 12   |  |
|  |     |     |                  | GALLONS PER ACRE |      |      |      |      |    |    |      |    |      |      |  |
| <br>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)<br>1255R (Right)  | PSI | GPM | SPRAY<br>PATTERN | SPEED (MPH)      |      |      |      |      |    |    |      |    |      |      |  |
|  |     |     |                  | 2                | 3    | 4    | 5    | 6    | 7  | 8  | 9    | 10 | 11   | 12   |  |
|  |     |     |                  | GALLONS PER ACRE |      |      |      |      |    |    |      |    |      |      |  |
| <br>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)<br>1404R (Right)  | PSI | GPM | SPRAY<br>PATTERN | SPEED (MPH)      |      |      |      |      |    |    |      |    |      |      |  |
|  |     |     |                  | 2                | 3    | 4    | 5    | 6    | 7  | 8  | 9    | 10 | 11   | 12   |  |
|  |     |     |                  | GALLONS PER ACRE |      |      |      |      |    |    |      |    |      |      |  |
| <br>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   |  |

# BOOMINATOR®

## SHORT Pattern Directional Spray Nozzles

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

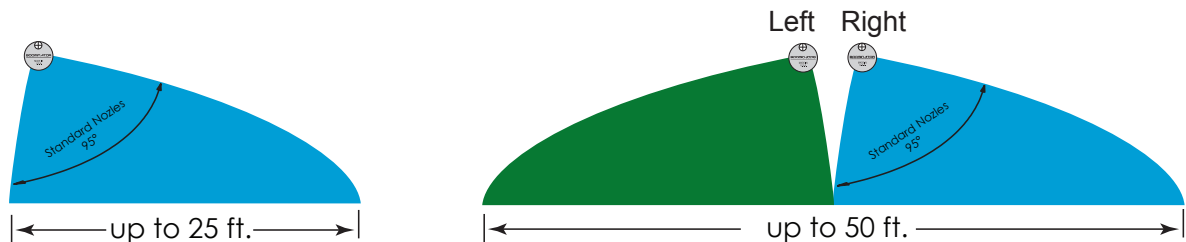
|  |             |               |                      |                    |              |              |              |              |             |             |             |                         |             |             |  |
|--|-------------|---------------|----------------------|--------------------|--------------|--------------|--------------|---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



# 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)<br>1160R (Right)  |     |     |               | SPEED (MPH)      |      |    |     |   |     |
|--|-----|-----|---------------|------------------|------|----|-----|---|-----|
|  | PSI | GPM | SPRAY PATTERN | 2                | 3    | 4  | 5   | 6 | 7   |
|  |     |     |               | GALLONS PER ACRE |      |    |     |   |     |
| <br>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)<br>1250R (Right)  |     |     |               | SPEED (MPH)      |    |    |    |    |   |
|--|-----|-----|---------------|------------------|----|----|----|----|---|
|  | PSI | GPM | SPRAY PATTERN | 2                | 3  | 4  | 5  | 6  | 7 |
|  |     |     |               | GALLONS PER ACRE |    |    |    |    |   |
| <br>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)<br>1400R (Right)  |     |     |               | SPEED (MPH)      |    |    |    |    |    |   |     |    |     |     |
|--|-----|-----|---------------|------------------|----|----|----|----|----|---|-----|----|-----|-----|
|  | PSI | GPM | SPRAY PATTERN | 2                | 3  | 4  | 5  | 6  | 7  | 8 | 9   | 10 | 11  | 12  |
|  |     |     |               | GALLONS PER ACRE |    |    |    |    |    |   |     |    |     |     |
| <br>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)<br>1870R (Right)  |     |     |               | SPEED (MPH)      |    |    |    |    |    |    |    |    |     |    |  |
|--|-----|-----|---------------|------------------|----|----|----|----|----|----|----|----|-----|----|--|
|  | PSI | GPM | SPRAY PATTERN | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10 | 11  | 12 |  |
|  |     |     |               | GALLONS PER ACRE |    |    |    |    |    |    |    |    |     |    |  |
| <br>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

|  |                  |        |               |             |     |    |    |    |    |    |    |    |    |    |  |
|--|------------------|--------|---------------|-------------|-----|----|----|----|----|----|----|----|----|----|--|
| <br>2280L (Left)<br>2280R (Right)<br><br>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 |    |  |
| <br>2650L (Left)<br>2650R (Right)<br><br>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 |    |  |
| <br>3120L (Left)<br>3120R (Right)<br><br>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 |    |  |
| <br>3750L (Left)<br>3750R (Right)<br><br>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 |    |  |
| <br>4370L (Left)<br>4370R (Right)<br><br>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 |    |  |
| <br>5000L (Left)<br>5000R (Right)<br><br>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 |    |  |
| <br>6250L (Left)<br>6250R (Right)<br><br>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 |    |  |

# BOOMINATOR®

## FULL Pattern Spray Nozzles











### Full Pattern Spray Nozzles

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

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°




| NOZZLE TYPE  | PSI | GPM | SPRAY PATTERN | SPEED (MPH) |      |    |      |      |      |      | GALLONS PER ACRE   |     |      |      |  |
|--|-----|-----|---------------|-------------|------|----|------|------|------|------|--|-----|------|------|--|
|  |     |     |               | 1           | 2    | 3  | 4    | 5    | 6    | 7    |  |     |      |      |  |
| <b>1250FS</b><br>FULL PATTERN<br><br>1/4" MNPT   | 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    |  |     |      |      |  |
|  |     |     |               |             |      |    |      |      |      |      |  |     |      |      |  |
| <b>1400FS</b><br>FULL PATTERN<br><br>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.        | 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    |  |
|  |     |     |               |             |      |    |      |      |      |      |  |     |      |      |  |
| <b>1400FM</b><br>FULL PATTERN<br><br>1/4" MNPT  | 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  |  |
|  |     |     |               |             |      |    |      |      |      |      |  |     |      |      |  |
| <b>1870FSS</b><br>FULL PATTERN<br><br>1/4" MNPT | 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 |  |
|  |     |     |               |             |      |    |      |      |      |      |  |     |      |      |  |
| <b>1870FS</b><br>FULL PATTERN<br><br>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®


## FULL Pattern Spray Nozzles

| 1870FM<br>FULL PATTERN   |     |     |               | SPEED (MPH)      |    |    |    |    |    |    |    |     |    |     |
|--|-----|-----|---------------|------------------|----|----|----|----|----|----|----|-----|----|-----|
|  |     |     |               | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9  | 10  | 11 | 12  |
| <br>1/4" MNPT | PSI | GPM | SPRAY PATTERN | 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<br>FULL PATTERN   |     |     |               | SPEED (MPH)      |    |    |    |    |    |   |     |     |     |     |
|--|-----|-----|---------------|------------------|----|----|----|----|----|---|-----|-----|-----|-----|
|  |     |     |               | 2                | 3  | 4  | 5  | 6  | 7  | 8 | 9   | 10  | 11  | 12  |
| <br>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   |


  

| 2280FM<br>FULL PATTERN   |     |     |               | SPEED (MPH)      |    |    |    |    |    |    |      |    |      |     |
|--|-----|-----|---------------|------------------|----|----|----|----|----|----|------|----|------|-----|
|  |     |     |               | 2                | 3  | 4  | 5  | 6  | 7  | 8  | 9    | 10 | 11   | 12  |
| <br>1/2" MNPT | PSI | GPM | SPRAY PATTERN | 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<br>FULL PATTERN   |     |     |               | SPEED (MPH)      |    |    |    |      |    |    |      |    |    |     |
|--|-----|-----|---------------|------------------|----|----|----|------|----|----|------|----|----|-----|
|  |     |     |               | 2                | 3  | 4  | 5  | 6    | 7  | 8  | 9    | 10 | 11 | 12  |
| <br>1/2" MNPT | PSI | GPM | SPRAY PATTERN | 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<br>FULL PATTERN  |     |     |               | SPEED (MPH)      |       |     |      |    |      |      |    |    |    |      |
|--|-----|-----|---------------|------------------|-------|-----|------|----|------|------|----|----|----|------|
|  |     |     |               | 2                | 3     | 4   | 5    | 6  | 7    | 8    | 9  | 10 | 11 | 12   |
| <br>1/2" MNPT | PSI | GPM | SPRAY PATTERN | 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<br>FULL PATTERN   |     |      |               | SPEED (MPH)      |      |    |    |      |    |    |      |    |      |    |
|--|-----|------|---------------|------------------|------|----|----|------|----|----|------|----|------|----|
|  |     |      |               | 2                | 3    | 4  | 5  | 6    | 7  | 8  | 9    | 10 | 11   | 12 |
| <br>1/2" MNPT | PSI | GPM  | SPRAY PATTERN | 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<br>FULL PATTERN   |     |      |               | SPEED (MPH)      |    |    |    |    |      |      |    |      |      |    |
|--|-----|------|---------------|------------------|----|----|----|----|------|------|----|------|------|----|
|  |     |      |               | 2                | 3  | 4  | 5  | 6  | 7    | 8    | 9  | 10   | 11   | 12 |
| <br>1/2" MNPT | PSI | GPM  | SPRAY PATTERN | 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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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<br>FULL PATTERN<br><br>1/2" MNPT | PSI  | GPM    | SPRAY<br>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.

|   |     |      |               |                  |     |    |    |    |    |    |     |    |     |     |
|---|-----|------|---------------|------------------|-----|----|----|----|----|----|-----|----|-----|-----|
| <b>1250RS</b><br>RIGHT ONLY<br><br>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  |     |    |     |     |
| <b>1400RS</b><br>RIGHT ONLY<br><br>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   |
| <b>1870RS</b><br>RIGHT ONLY<br><br>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  |
| <b>2650RS</b><br>RIGHT ONLY<br><br>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  |
| <b>3120RS</b><br>RIGHT ONLY<br><br>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  |
| <b>3750RS</b><br>RIGHT ONLY<br><br>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  |
| <b>4370RS</b><br>RIGHT ONLY<br><br>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  |

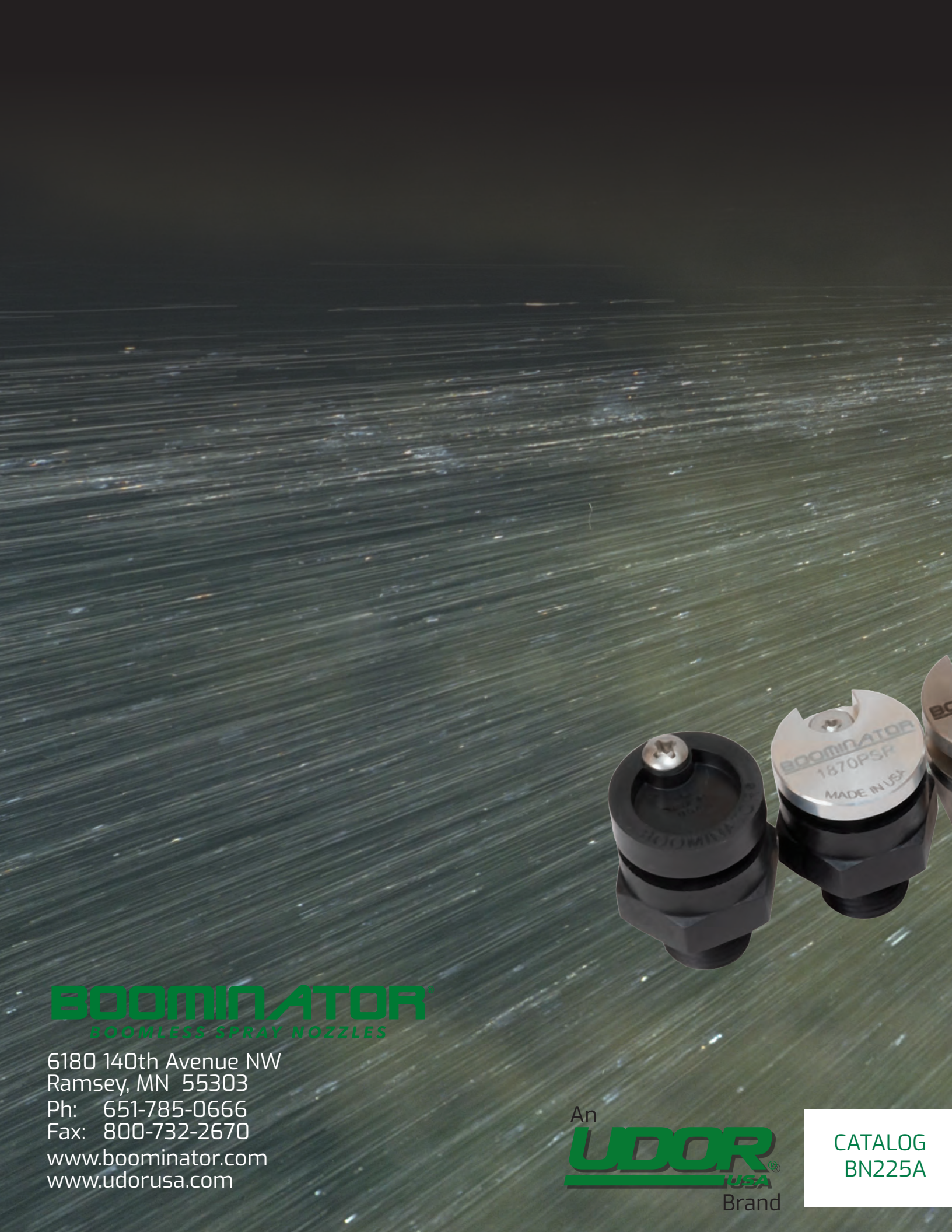


# BOOMINATOR®

## BOOMLESS SPRAY NOZZLES

### TROUBLESHOOTING GUIDE

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



# **BOOMINATOR**

BOOMLESS SPRAY NOZZLES

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