

TurboDrop® Boomless Nozzle

The TurboDrop® TDBX Boomless Air Injection Nozzle combines the convenience of boomless spraying with low drift air injection technology. It is typically used with another TDBX nozzle where a conventional boom might be impractical. The TDBX may also be used at the end of a standard boom as a fence row nozzle.

Always remember that the TurboDrop® Venturi (black) controls the flow rate. The blue pattern tip strictly controls the spray pattern. If the blue tip is used by itself (without the venturi) the flow rate will be doubled.

Mount the nozzle so that it sprays horizontally out away from the sprayer, and so the back edge of the pattern overlaps the adjacent TDBX nozzle by 12" for a 48" mounting height, or 9" for a 36" mounting height. Swath width can be adjusted by rotating the nozzle rearward away from the sprayer.

At a mounting height of 48", the swath width will be approximately 17'. At a mounting height of 36", the swath width will be approximately 13'. The charts below are based on these parameters. To adjust for different heights or swath widths, use the following formula:

$$GPA = \frac{GPM \times 495}{MPH \times Swath \text{ width (ft)}}$$

If used on a boom with flat fan nozzles, adjust the swath width according to the following table:

Flat fan	01	015	02	025	03
Swath width	16'	11'	9'	7'	6'

The air holes may be covered to help reduce swath width. Large, drift reducing droplets will still be created, but they will not be air energized.

GPA @ 48" height (17' swath)

PSI	FLOW US GPM	mph									
		4	5	6	7	8	10	12	14	16	18
30	0.87	6.3	5.1	4.2	3.6	3.2	2.5	2.1	1.8	1.6	1.4
40	1.00	7.3	5.8	4.9	4.2	3.6	2.9	2.4	2.1	1.8	1.6
50	1.12	8.2	6.5	5.4	4.7	4.1	3.3	2.7	2.3	2.0	1.8
60	1.22	8.9	7.1	5.9	5.1	4.4	3.6	3.0	2.5	2.2	2.0
70	1.32	9.6	7.7	6.4	5.5	4.8	3.8	3.2	2.7	2.4	2.1
80	1.41	10.3	8.2	6.8	5.9	5.1	4.1	3.4	2.9	2.6	2.3

GPA @ 36" height (13' swath)

PSI	FLOW US GPM	mph									
		4	5	6	7	8	10	12	14	16	18
30	0.87	8.3	6.6	5.5	4.7	4.1	3.3	2.8	2.4	2.1	1.8
40	1.00	9.5	7.6	6.3	5.4	4.8	3.8	3.2	2.7	2.4	2.1
50	1.12	10.7	8.5	7.1	6.1	5.3	4.3	3.6	3.0	2.7	2.4
60	1.22	11.6	9.3	7.7	6.6	5.8	4.6	3.9	3.3	2.9	2.6
70	1.32	12.6	10.1	8.4	7.2	6.3	5.0	4.2	3.6	3.1	2.8
80	1.41	13.4	10.7	8.9	7.7	6.7	5.4	4.5	3.8	3.4	3.0



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