TurboDrop® DualFan Medium Pressure Nozzles - 20" Spacing Tabulation Chart

The TurboDrop[®] Venturi (TDXLV/TDVC) is the heart of TurboDrop[®] DualFan nozzle. The Venturi (or injector) meters the flow and injects air into the spray fluid. The TurboDrop[®] Venturi is ISO color coded for flow rate. The pattern tip or combination of tips is double the flow rate of the Venturi. For example, a blue 03 Venturi requires an 06 pattern tip, or a pair of tips that add up to 06. The TurboDrop[®] Venturi nozzle utilizes a patented stabilization chamber and pulsation dampener which results in even mixing of air with the spray liquid, and a tighter, more uniform droplet spectrum for a unique combination of drift control and coverage. To maximize coverage, TADF nozzles may be alternated on the boom to provide four angles of spray orientation into the canopy, effectively spraying the target four times in one pass.

One size will often fit a variety of applications. For example, the 04 TurboDrop[®] DualFan will deliver glyphosate at 10 gpa at 11-15 mph between 35 and 65 psi. For 15 gpa fungicides, or other contact pesticides, this same nozzle could be operated at 11-13 mph at roughly 80-110 psi. Sprayer speed may be reduced a couple of miles per hour (9-10 mph) to deliver 20 gpa at 90-110 psi.

Pressure Range: 20-120 psi (30-150 psi, ceramic) Recommended Boom Height: 15-25" (with 20" nozzle spacing) Materials of Construction: Polyacetal, EPDM. Semi-ceramic version (TACDF) utilizes ceramic pre-orifice for extended wear life.



TADF01 TADF015 TADF02 TADF025 TADF03 TADF04 TADF05 TADF06 TADF06 TADF08 TADF10 TADF15

		GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																
				5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
	Droplet M	PSI 30	GPM 0.09	<u>MPH</u> 5.1	4.3	3.7	MPH 3.2	2.9	2.6	2.3	2.1	2.0	1.8	1.7	1.6	MPH 1.5	1.4	1.3
TADF01	М	40	0.10	5.9	5.0	4.2	3.7	3.3	3.0	2.7	2.5	2.3	2.1	2.0	1.9	1.7	1.7	1.5
ALL ALL	M F	50 60	0.11 0.12	6.6 7.3	5.5 6.1	4.7 5.2	4.2 4.5	3.7 4.0	3.3 3.6	3.0 3.3	2.8	2.6 2.8	2.4	2.2	2.1	2.0 2.1	1.8 2.0	1.7
	F	70	0.13	7.9	6.5	5.6	4.9	4.4	3.9	3.6	3.3	3.0	2.8	2.6	2.5	2.3	2.2	2.0
	F	80 90	0.14	8.4 8.9	7.0	6.0 6.4	5.3 5.6	4.7 5.0	4.2 4.5	3.8 4.1	3.5 3.7	3.2 3.4	3.0 3.2	2.8 3.0	2.6 2.8	2.5 2.6	2.3 2.5	2.1
	F	100	0.16	9.4	7.8	6.7	5.9	5.2	4.7	4.3	3.9	3.6	3.4	3.1	2.9	2.8	2.6	2.3
	F C M	120 30	0.17	10.3 7.7	8.6 6.4	7.3 5.5	6.4 4.8	5.7 4.3	5.1 3.9	4.7 3.5	4.3 3.2	4.0	3.7 2.8	3.4 2.6	3.2 2.4	3.0 2.3	2.9	2.6
TADF015	M	40	0.15	8.9	7.4	6.4	5.6	5.0	4.5	4.1	3.7	3.4	3.2	3.0	2.8	2.6	2.5	2.2
	M	50 60	0.17	10.0	8.3 9.1	7.1	6.2 6.8	5.5 6.1	5.0 5.5	4.5 5.0	4.2	3.8 4.2	3.6 3.9	3.3 3.6	3.1 3.4	2.9 3.2	2.8 3.0	2.5
	M	70	0.20	11.8	9.8	8.4	7.4	6.5	5.9	5.4	4.9	4.5	4.2	3.9	3.7	3.5	3.3	2.9
	M F M F	80 90	0.21 0.23	12.6 13.4	10.5 11.1	9.0 9.5	7.9 8.4	7.0	6.3 6.7	5.7 6.1	5.3 5.6	4.8 5.1	4.5 4.8	4.2 4.5	3.9 4.2	3.7 3.9	3.5 3.7	3.2
	F	100	0.23	14.1	11.7	10.1	8.8	7.4	7.0	6.4	5.9	5.4	5.0	4.7	4.4	4.1	3.9	3.5
	F	120	0.26	15.4	12.9	11.0	9.6	8.6	7.7	7.0	6.4	5.9	5.5	5.1	4.8	4.5	4.3	3.9
TADF02	C M C M	30 40	0.17 0.20	10.3 11.9	8.6 9.9	7.3 8.5	6.4 7.4	5.7 6.6	5.1 5.9	4.7 5.4	4.3 5.0	4.0 4.6	3.7 4.2	3.4 4.0	3.2 3.7	3.0 3.5	2.9 3.3	2.6 3.0
A CONTRACT	СМ	50	0.22	13.3	11.1	9.5	8.3	7.4	6.6	6.0	5.5	5.1	4.7	4.4	4.2	3.9	3.7	3.3
Carried .	M	60 70	0.24 0.26	14.5 15.7	12.1 13.1	10.4 11.2	9.1 9.8	8.1 8.7	7.3 7.9	6.6 7.1	6.1 6.5	5.6 6.0	5.2 5.6	4.8 5.2	4.5 4.9	4.3 4.6	4.0	3.6 3.9
	MF	80	0.28	16.8	14.0	12.0	10.5	9.3	8.4	7.6	7.0	6.5	6.0	5.6	5.3	4.9	4.7	4.2
	M F M F	90 100	0.30	17.8 18.8	14.9 15.7	12.7 13.4	11.1 11.7	9.9 10.4	8.9 9.4	8.1 8.5	7.4	6.9 7.2	6.4 6.7	5.9 6.3	5.6 5.9	5.2 5.5	5.0 5.2	4.5
	F	120	0.35	20.6	17.1	14.7	12.9	11.4	10.3	9.4	8.6	7.9	7.3	6.9	6.4	6.1	5.7	5.1
TADF025	VC C	30 40	0.22	12.9 14.9	10.7 12.4	9.2 10.6	8.0 9.3	7.1 8.3	6.4 7.4	5.8 6.8	5.4 6.2	4.9 5.7	4.6 5.3	4.3 5.0	4.0	3.8 4.4	3.6 4.1	3.2
	СМ	50	0.28	16.6	13.8	11.9	10.4	9.2	8.3	7.5	6.9	6.4	5.9	5.5	5.2	4.9	4.6	4.2
	M	60 70	0.31	18.2 19.6	15.2 16.4	13.0 14.0	11.4 12.3	10.1 10.9	9.1 9.8	8.3 8.9	7.6 8.2	7.0 7.6	6.5 7.0	6.1 6.5	5.7 6.1	5.3 5.8	5.1 5.5	4.5
	MF	80	0.35	21.0	17.5	15.0	13.1	11.7	10.5	9.5	8.8	8.1	7.5	7.0	6.6	6.2	5.8	5.3
	M F M F	90 100	0.38	22.3 23.5	18.6 19.6	15.9 16.8	13.9 14.7	12.4 13.0	<u>11.1</u> 11.7	10.1	9.3 9.8	8.6 9.0	8.0 8.4	7.4 7.8	7.0 7.3	6.6 6.9	6.2 6.5	5.6 5.9
	F	120	0.43	25.7	21.4	18.4	16.1	14.3	12.9	11.7	10.7	9.9	9.2	8.6	8.0	7.6	7.1	6.4
TADF03	VC C C M	30 40	0.26	15.4 17.8	12.9 14.9	11.0 12.7	9.6 11.1	8.6 9.9	7.7 8.9	7.0 8.1	6.4 7.4	5.9 6.9	5.5 6.4	5.1 5.9	4.8 5.6	4.5 5.2	4.3 5.0	3.9 4.5
	СМ	50	0.34	19.9	16.6	14.2	12.5	11.1	10.0	9.1	8.3	7.7	7.1	6.6	6.2	5.9	5.5	5.0
and the second second	M	60 70	0.37	21.8 23.6	18.2 19.6	15.6 16.8	13.6 14.7	12.1 13.1	10.9 11.8	9.9 10.7	9.1 9.8	8.4 9.1	7.8 8.4	7.3 7.9	6.8 7.4	6.4 6.9	6.1 6.5	5.5 5.9
	MF	80	0.42	25.2	21.0	18.0	15.8	14.0	12.6	11.5	10.5	9.7	9.0	8.4	7.9	7.4	7.0	6.3
	M F M F	90 100	0.45	26.7 28.2	22.3 23.5	19.1 20.1	16.7 17.6	14.9 15.7	13.4 14.1	12.2 12.8	<u>11.1</u> 11.7	10.3 10.8	9.5 10.1	8.9 9.4	8.4 8.8	7.9 8.3	7.4	6.7
	F	120	0.52	30.9	25.7	22.0	19.3	17.1	15.4	14.0	12.9	11.9	11.0	10.3	9.6	9.1	8.6	7.7
TADF04	VC C	30 40	0.35	20.6 23.8	17.1 19.8	14.7 17.0	12.9 14.9	11.4 13.2	10.3 11.9	9.4 10.8	8.6 9.9	7.9 9.1	7.3 8.5	6.9 7.9	6.4 7.4	6.1 7.0	5.7 6.6	5.1 5.9
1000	СМ	50	0.45	26.6	22.1	19.0	16.6	14.8	13.3	12.1	11.1	10.2	9.5	8.9	8.3	7.8	7.4	6.6
	M	60 70	0.49 0.53	29.1 31.4	24.2 26.2	20.8 22.5	18.2 19.6	16.2 17.5	14.5 15.7	13.2 14.3	12.1 13.1	11.2 12.1	10.4 11.2	9.7 10.5	9.1 9.8	8.6 9.2	8.1 8.7	7.3
	MF	80	0.57	33.6	28.0	24.0	21.0	18.7	16.8	15.3	14.0	12.9	12.0	11.2	10.5	9.9	9.3	8.4
	M F M F	90 100	0.60	35.6 37.6	29.7 31.3	25.5 26.8	22.3 23.5	19.8 20.9	17.8 18.8	16.2 17.1	14.9 15.7	13.7 14.4	12.7 13.4	11.9 12.5	11.1 11.7	10.5 11.0	9.9 10.4	8.9 9.4
	MF	120	0.69	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.1	15.8	14.7	13.7	12.9	12.1	11.4	10.3
TADF05	VC C VC C	30 40	0.43	25.7 29.7	21.4 24.8	18.4 21.2	16.1 18.6	14.3 16.5	12.9 14.9	11.7 13.5	10.7 12.4	9.9 11.4	9.2 10.6	8.6 9.9	8.0 9.3	7.6 8.7	7.1 8.3	6.4
-	C M	50	0.56	33.2	27.7	23.7	20.8	18.4	16.6	15.1	13.8	12.8	11.9	11.1	10.4	9.8	9.2	8.3
		60 70	0.61	36.4 39.3	30.3 32.7	26.0 28.1	22.7 24.6	20.2 21.8	18.2 19.6	16.5 17.9	15.2 16.4	14.0 15.1	13.0 14.0	12.1 13.1	11.4 12.3	10.7 11.6	10.1 10.9	9.1 9.8
	M M	80	0.00	42.0	35.0	30.0	26.3	23.3	21.0	19.1	17.5	16.2	15.0	14.0	13.1	12.4	11.7	10.5
	M F M F	90 100	0.75 0.79	44.6 47.0	37.1 39.1	31.8 33.5	27.8 29.3	24.8 26.1	22.3 23.5	20.3 21.3	18.6 19.6	17.1 18.1	15.9 16.8	14.9 15.7	13.9 14.7	13.1 13.8	12.4 13.0	11.1 11.7
	MF	120	0.79	47.0 51.4	42.9	36.7	29.3 32.2	28.6	25.7	21.3	21.4	19.8	18.4	17.1	16.1	15.1	14.3	12.9
TADF06	VC VC	30	0.52	30.9	25.7	22.0	19.3	17.1	15.4	14.0	12.9	11.9	11.0	10.3	9.6	9.1	8.6	7.7
A STATE	С	40 50	0.60 0.67	35.6 39.8	29.7 33.2	25.5 28.5	22.3 24.9	19.8 22.1	17.8 19.9	16.2 18.1	14.9 16.6	13.7 15.3	12.7 14.2	11.9 13.3	11.1 12.5	10.5 11.7	9.9 11.1	8.9 10.0
	C	60	0.73	43.6	36.4	31.2	27.3	24.2	21.8	19.8	18.2	16.8	15.6	14.5	13.6	12.8	12.1	10.9
	M M	70 80	0.79 0.85	47.1 50.4	39.3 42.0	33.7 36.0	29.5 31.5	26.2 28.0	23.6 25.2	21.4 22.9	19.6 21.0	18.1 19.4	16.8 18.0	15.7 16.8	14.7 15.8	13.9 14.8	13.1 14.0	11.8 12.6
	M	90	0.90	53.5	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	17.8	16.7	15.7	14.9	13.4
	M	100 120	0.95	56.4 61.7	47.0 51.4	40.3	35.2 38.6	31.3 34.3	28.2 30.9	25.6 28.1	23.5 25.7	21.7 23.7	20.1 22.0	18.8 20.6	17.6 19.3	16.6 18.2	15.7 17.1	14.1 15.4

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TurboDrop® DualFan Medium Pressure Nozzles - 20" Spacing Tabulation Chart

		GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																
				5	6	7	8	9	10	11	12	13	14	15	16	17	18	20
	Droplet	PSI	GPM	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH	MPH
TADF08	VC	30	0.69	41.2	34.3	29.4	25.7	22.9	20.6	18.7	17.1	15.8	14.7	13.7	12.9	12.1	11.4	10.3
IADI 00	VC	40	0.80	47.5	39.6	33.9	29.7	26.4	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	11.9
A CONTRACT	С	50	0.89	53.1	44.3	37.9	33.2	29.5	26.6	24.1	22.1	20.4	19.0	17.7	16.6	15.6	14.8	13.3
	С	60	0.98	58.2	48.5	41.6	36.4	32.3	29.1	26.5	24.2	22.4	20.8	19.4	18.2	17.1	16.2	14.5
	M	70	1.06	62.9	52.4	44.9	39.3	34.9	31.4	28.6	26.2	24.2	22.5	21.0	19.6	18.5	17.5	15.7
and the second	М	80	1.13	67.2	56.0	48.0	42.0	37.3	33.6	30.5	28.0	25.8	24.0	22.4	21.0	19.8	18.7	16.8
	М	90	1.20	71.3	59.4	50.9	44.6	39.6	35.6	32.4	29.7	27.4	25.5	23.8	22.3	21.0	19.8	17.8
P	M	100	1.26	75.1	62.6	53.7	47.0	41.7	37.6	34.2	31.3	28.9	26.8	25.0	23.5	22.1	20.9	18.8
	M	120	1.39	82.3	68.6	58.8	51.4	45.7	41.2	37.4	34.3	31.7	29.4	27.4	25.7	24.2	22.9	20.6
TADF10	XC	30	0.87	51.4	42.9	36.7	32.2	28.6	25.7	23.4	21.4	19.8	18.4	17.1	16.1	15.1	14.3	12.9
TADE TO	XC	40	1.00	59.4	49.5	42.4	37.1	33.0	29.7	27.0	24.8	22.8	21.2	19.8	18.6	17.5	16.5	14.9
A STATISTICS	VC	50	1.12	66.4	55.3	47.4	41.5	36.9	33.2	30.2	27.7	25.5	23.7	22.1	20.8	19.5	18.4	16.6
	VC	60	1.22	72.7	60.6	52.0	45.5	40.4	36.4	33.1	30.3	28.0	26.0	24.2	22.7	21.4	20.2	18.2
	VC	70	1.32	78.6	65.5	56.1	49.1	43.7	39.3	35.7	32.7	30.2	28.1	26.2	24.6	23.1	21.8	19.6
a series	С	80	1.41	84.0	70.0	60.0	52.5	46.7	42.0	38.2	35.0	32.3	30.0	28.0	26.3	24.7	23.3	21.0
	С	90	1.50	89.1	74.3	63.6	55.7	49.5	44.6	40.5	37.1	34.3	31.8	29.7	27.8	26.2	24.8	22.3
	М	100	1.58	93.9	78.3	67.1	58.7	52.2	47.0	42.7	39.1	36.1	33.5	31.3	29.3	27.6	26.1	23.5
	M	120	1.73	102.9	85.7	73.5	64.3	57.2	51.4	46.8	42.9	39.6	36.7	34.3	32.2	30.3	28.6	25.7
TADF15		30	1.30	77.2	64.3	55.1	48.2	42.9	38.6	35.1	32.2	29.7	27.6	25.7	24.1	22.7	21.4	19.3
TADE 15		40	1.50	89.1	74.3	63.6	55.7	49.5	44.6	40.5	37.1	34.3	31.8	29.7	27.8	26.2	24.8	22.3
A CONTRACTOR		50	1.68	99.6	83.0	71.2	62.3	55.3	49.8	45.3	41.5	38.3	35.6	33.2	31.1	29.3	27.7	24.9
		60	1.84	109.1	90.9	77.9	68.2	60.6	54.6	49.6	45.5	42.0	39.0	36.4	34.1	32.1	30.3	27.3
		70	1.98	117.9	98.2	84.2	73.7	65.5	58.9	53.6	49.1	45.3	42.1	39.3	36.8	34.7	32.7	29.5
- the		80	2.12	126.0	105.0	90.0	78.8	70.0	63.0	57.3	52.5	48.5	45.0	42.0	39.4	37.1	35.0	31.5
Contraction of		90	2.25	133.7	111.4	95.5	83.5	74.3	66.8	60.8	55.7	51.4	47.7	44.6	41.8	39.3	37.1	33.4
		100	2.37	140.9	117.4	100.6	88.0	78.3	70.4	64.0	58.7	54.2	50.3	47.0	44.0	41.4	39.1	35.2
		120	2.60	154.3	128.6	110.2	96.5	85.7	77.2	70.1	64.3	59.4	55.1	51.4	48.2	45.4	42.9	38.6

* Color changes reflect ISO code updates.