

TurboDrop® Variable Rate and TurboDrop® Variable Rate DualFan Nozzles

TurboDrop® Variable Rate nozzles will cover the range of two to three standard TurboDrop® nozzle sizes. The flow rate increases more rapidly with an increase in pressure, making Variable Rate nozzles useful in covering wider speed ranges or providing on-the-go variable rate application. The wider flow rate range of the TurboDrop® Variable rate nozzles offer more flexibility than conventionally sized nozzles without the complexities of a broadcast PWM system. Flow tolerance of $\pm 5\%$ is the best available for a variable nozzle. TurboDrop Variable Rate Nozzles will be most accurate when used with flow control system instead of pressure control systems. VR05 Size nozzles are not air-injected.

The DualFan Variable Rate provides a smaller droplet size spectrum compared to the single fan version, as well as delivering DualFan spray coverage. To maximize coverage with the TWVR nozzles, alternate them on the boom to deliver four angles of spray orientation to the target.

Pressure Range: 40-140 psi **Recommended Boom Height TDVR:** 18-36" **TWVR:** 15-25"(on 20" centers)

Materials of Construction: Polyacetal, EPDM, stainless steel **Mesh:** 50M for all sizes

		GALLONS PER ACRE BASED ON 20" NOZZLE SPACING																					
		Droplet	Drift %	Droplet	Drift %	PSI	GPM	4 MPH	5 MPH	6 MPH	8 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH	15 MPH	16 MPH	17 MPH	18 MPH	19 MPH	20 MPH	
			VC	1.0	C	3.1	40	0.17	12.6	10.1	8.4	6.3	5.0	4.6	4.2	3.9	3.6	3.4	3.2	3.0	2.8	2.7	2.5
			VC	1.7	C	4.9	50	0.22	16.3	13.1	10.9	8.2	6.5	5.9	5.4	5.0	4.7	4.4	4.1	3.8	3.6	3.4	3.3
			C	2.7	C	6.7	60	0.27	20.0	16.0	13.4	10.0	8.0	7.3	6.7	6.2	5.7	5.3	5.0	4.7	4.5	4.2	4.0
			C	3.5	C	8.6	70	0.33	24.5	19.6	16.3	12.3	9.8	8.9	8.2	7.5	7.0	6.5	6.1	5.8	5.4	5.2	4.9
			C	4.3	M	10.4	80	0.38	28.2	22.6	18.8	14.1	11.3	10.3	9.4	8.7	8.1	7.5	7.1	6.6	6.3	5.9	5.6
			C	5.0	M	12.1	90	0.42	31.2	24.9	20.8	15.6	12.5	11.3	10.4	9.6	8.9	8.3	7.8	7.3	6.9	6.6	6.2
			M	5.9	M	13.5	100	0.45	33.4	26.7	22.3	16.7	13.4	12.2	11.1	10.3	9.5	8.9	8.4	7.9	7.4	7.0	6.7
			M	7.4	M	16.3	120	0.50	37.1	29.7	24.8	18.6	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.8	7.4
			M	8.8	M	19.1	140	0.54	40.1	32.1	26.7	20.0	16.0	14.6	13.4	12.3	11.5	10.7	10.0	9.4	8.9	8.4	8.0
			VC	0.9	VC	1.8	40	0.22	16.3	13.1	10.9	8.2	6.5	5.9	5.4	5.0	4.7	4.4	4.1	3.8	3.6	3.4	3.3
			VC	1.4	VC	2.9	50	0.29	21.5	17.2	14.4	10.8	8.6	7.8	7.2	6.6	6.2	5.7	5.4	5.1	4.8	4.5	4.3
			VC	1.8	C	4.1	60	0.42	31.2	24.9	20.8	15.6	12.5	11.3	10.4	9.6	8.9	8.3	7.8	7.3	6.9	6.6	6.2
			VC	2.5	C	5.4	70	0.51	37.9	30.3	25.2	18.9	15.1	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	8.0	7.6
			C	3.1	C	6.6	80	0.58	43.1	34.5	28.7	21.5	17.2	15.7	14.4	13.3	12.3	11.5	10.8	10.1	9.6	9.1	8.6
			C	3.7	C	7.8	90	0.64	47.5	38.0	31.7	23.8	19.0	17.3	15.8	14.6	13.6	12.7	11.9	11.2	10.6	10.0	9.5
			C	4.4	M	8.8	100	0.69	51.2	41.0	34.2	25.6	20.5	18.6	17.1	15.8	14.6	13.7	12.8	12.1	11.4	10.8	10.2
			C	5.4	M	10.8	120	0.75	55.7	44.6	37.1	27.8	22.3	20.3	18.6	17.1	15.9	14.9	13.9	13.1	12.4	11.7	11.1
			C	6.2	M	12.7	140	0.82	60.9	48.7	40.6	30.4	24.4	22.1	20.3	18.7	17.4	16.2	15.2	14.3	13.5	12.8	12.2
			XC	0.5	VC	1.5	40	0.33	24.5	19.6	16.3	12.3	9.8	8.9	8.2	7.5	7.0	6.5	6.1	5.8	5.4	5.2	4.9
			VC	0.7	VC	2.1	50	0.41	30.4	24.4	20.3	15.2	12.2	11.1	10.1	9.4	8.7	8.1	7.6	7.2	6.8	6.4	6.1
			VC	1.0	VC	2.8	60	0.51	37.9	30.3	25.2	18.9	15.1	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	8.0	7.6
			VC	1.5	C	3.5	70	0.67	49.7	39.8	33.2	24.9	19.9	18.1	16.6	15.3	14.2	13.3	12.4	11.7	11.1	10.5	9.9
			VC	2.1	C	4.3	80	0.80	59.4	47.5	39.6	29.7	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	12.5	11.9
			VC	2.7	C	5.1	90	0.87	64.6	51.7	43.1	32.3	25.8	23.5	21.5	19.9	18.5	17.2	16.1	15.2	14.4	13.6	12.9
			VC	3.2	M	5.9	100	0.93	69.1	55.2	46.0	34.5	27.6	25.1	23.0	21.2	19.7	18.4	17.3	16.2	15.3	14.5	13.8
			C	4.2	M	7.3	120	1.02	75.7	60.6	50.5	37.9	30.3	27.5	25.2	23.3	21.6	20.2	18.9	17.8	16.8	15.9	15.1
			C	5.0	M	8.7	140	1.10	81.7	65.3	54.5	40.8	32.7	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.2	17.2	16.3
			XC	0.5	XC	1.2	40	0.78	57.9	46.3	38.6	29.0	23.2	21.1	19.3	17.8	16.5	15.4	14.5	13.6	12.9	12.2	11.6
			VC	0.7	VC	1.8	50	0.98	72.8	58.2	48.5	36.4	29.1	26.5	24.3	22.4	20.8	19.4	18.2	17.1	16.2	15.3	14.6
			XC	1.0	VC	2.4	60	1.15	85.4	68.3	56.9	42.7	34.2	31.1	28.5	26.3	24.4	22.8	21.3	20.1	19.0	18.0	17.1
			VC	1.3	VC	3.1	70	1.33	98.8	79.0	65.8	49.4	39.5	35.9	32.9	30.4	28.2	26.3	24.7	23.2	21.9	20.8	19.8
			VC	1.7	VC	3.8	80	1.45	107.7	86.1	71.8	53.8	43.1	39.2	35.9	33.1	30.8	28.7	26.9	25.3	23.9	22.7	21.5
			VC	2.1	VC	4.6	90	1.57	116.6	93.3	77.7	58.3	46.6	42.4	38.9	35.9	33.3	31.1	29.1	27.4	25.9	24.5	23.3
			VC	2.5	VC	5.6	100	1.69	125.5	100.4	83.7	62.7	50.2	45.6	41.8	38.6	35.9	33.5	31.4	29.5	27.9	26.4	25.1
			VC	3.4	C	6.7	120	1.80	133.7	106.9	89.1	66.8	53.5	48.6	44.6	41.1	38.2	35.6	33.4	31.4	29.7	28.1	26.7
			VC	4.2	C	7.8	140	1.89	140.3	112.3	93.6	70.2	56.1	51.0	46.8	43.2	40.1	37.4	35.1	33.0	31.2	29.5	28.1
			VC	0.5	VC	1.5	40	0.33	24.5	19.6	16.3	12.3	9.8	8.9	8.2	7.5	7.0	6.5	6.1	5.8	5.4	5.2	4.9
			VC	0.7	VC	2.1	50	0.41	30.4	24.4	20.3	15.2	12.2	11.1	10.1	9.4	8.7	8.1	7.6	7.2	6.8	6.4	6.1
			VC	1.0	VC	2.8	60	0.51	37.9	30.3	25.2	18.9	15.1	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	8.0	7.6
			VC	1.5	C	3.5	70	0.67	49.7	39.8	33.2	24.9	19.9	18.1	16.6	15.3	14.2	13.3	12.4	11.7	11.1	10.5	9.9
			VC	2.1	C	4.3	80	0.80	59.4	47.5	39.6	29.7	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	12.5	11.9
			VC	2.7	C	5.1	90	0.87	64.6	51.7	43.1	32.3	25.8	23.5	21.5	19.9	18.5	17.2	16.1	15.2	14.4	13.6	12.9
			VC	3.2	M	5.9	100	0.93	69.1	55.2	46.0	34.5	27.6	25.1	23.0	21.2	19.7	18.4	17.3	16.2	15.3	14.5	13.8
			C	4.2	M	7.3	120	1.02	75.7	60.6	50.5	37.9	30.3	27.5	25.2	23.3	21.6	20.2	18.9	17.8	16.8	15.9	15.1
			C	5.0	M	8.7	140	1.10	81.7	65.3	54.5	40.8	32.7	29.7	27.2	25.1	23.3	21.8	20.4	19.2	18.2	17.2	16.3
			XC	0.5	XC	1.2	40	0.78	57.9	46.3	38.6	29.0	23.2	21.1	19.3	17.8	16.5	15.4	14.5	13.6	12.9	12.2	11.6
			XC	0.7	VC	1.8	50	0.98	72.8	58.2	48.5	36.4	29.1	26.5	24.3	22.4	20.8	19.4	18.2	17.1	16.2	15.3	14.6
			XC	1.0	VC	2.4	60	1.15	85.4	68.3	56.9	42.7	34.2	31.1	28.5	26.3	24.4	22.8	21.3	20.1	19.0	18.0	17.1
			VC	1.3	VC	3.1	70	1.33	98.8	79.0	65.8	49.4	39.5	35.9	32.9	30.4	28.2	26.3	24.7	23.2	21.9	20.8	19.8
			VC	1.7	VC	3.8	80	1.45	107.7	86.1	71.8	53.8	43.1	39.2	35.9	33.1	30.8	28.7	26.9	25.3	23.9	22.7	21.5
			VC	2.1	VC	4.6	90	1.57	116.6	93.3	77.7	58.3	46.6	42.4	38.9	35.9	33.3	31.1	29.1	27.4	25.9	24.5	23.3
			VC	2.5	VC	5.6	100	1.69	125.5	100.4	83.7	62.7	50.2	45.6	41.8	38.6	35.9	33.5	31.4	29.5	27.9	26.4	25.1
			VC	3.4	C	6.7	120	1.80	133.7	106.9	89.1	66.8	53.5	48.6	44.6	41.1	38.2	35.6	33.4	31.4	29.7	28.1	26.7
			VC	4.2	C	7.8	140	1.89	140.3	112.3	93.6	70.2	56.1	51.0	46.8	43.2	40.1	37.4	35.1	33.0	31.2	29.5	28.1
			VC	0.5	VC	1.5	40	0.33	24.5	19.6	16.3	12.3	9.8	8.9	8.2	7.5	7.0	6.5	6.1	5.8	5.4	5.2	4.9
			VC	0.7	VC	2.1	50	0.41	30.4	24.4	20.3	15.2	12.2	11.1	10.1	9.4	8.7	8.1	7.6	7.2	6.8	6.4	6.1
			VC	1.0	VC	2.8	60	0.51	37.9	30.3	25.2	18.9	15.1	13.8	12.6	11.7	10.8	10.1	9.5	8.9	8.4	8.0	7.6
			VC	1.5	C	3.5	70	0.67	49.7	39.8	33.2	24.9	19.9	18.1	16.6	15.3	14.2	13.3	12.4	11.7	11.1	10.5	9.9
			VC	2.1	C	4.3	80	0.80	59.4	47.5	39.6	29.7	23.8	21.6	19.8	18.3	17.0	15.8	14.9	14.0	13.2	12.5	11.9
			VC	2.7	C	5.1	90	0.87	64.6	51.7	43.1	32.3	25.8	23.5	21.5	19.9	18.5	17.2	16.1	15.2	14.4	13.6	12.9
			VC	3.2	M	5.9	100	0.93	69.1	55.2	46.0	34.5	27.6	25.1	23.0	21.2	1						