



### TurboDrop® Asymmetric DualFan






The TurboDrop DualFan (TADF) can be used in a variety of applications, from burndown with glyphosate to contact herbicides like Ignite. The TADF may improve coverage with certain canopy types, or even help target smaller, just emerging weeds.







By creating the proper droplet size at high pressure, the TurboDrop DualFan provides the velocity required to deliver the air-filled droplets deep into the plant canopy, and the backside coverage required for complex targets. At 30-70 psi, most sizes of the TurboDrop DualFan will deliver the optimal droplet size for glyphosate, with excellent drift control. At 60 or 70 psi up to 120 psi, with sizes 03 to 08, the droplet size is ideal for Ignite.

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

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.

**Pressure Range:** 30-120 psi **Recommended Boom Height:** 18-36" (with 20" nozzle spacing)  
**Materials of Construction:** Polyacetyl, EPDM, Ceramic (TDCXL/TACDF/TDVC)

	Liquid Pressure PSI	Droplet Size ASABE	Nozzle Capacity GPM	GALLONS PER ACRE BASED ON 15" NOZZLE SPACING															
				5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH	15 MPH	16 MPH	17 MPH	18 MPH	20 MPH	
 (uses 50 mesh)	30	M	0.09	6.9	5.7	4.9	4.3	3.8	3.4	3.1	2.9	2.6	2.4	2.3	2.1	2.0	1.9	1.7	
	40	M	0.10	7.9	6.6	5.7	5.0	4.4	4.0	3.6	3.3	3.0	2.8	2.6	2.5	2.3	2.2	2.0	
	50	M	0.11	8.9	7.4	6.3	5.5	4.9	4.4	4.0	3.7	3.4	3.2	3.0	2.8	2.6	2.5	2.2	
	60	F	0.12	9.7	8.1	6.9	6.1	5.4	4.8	4.4	4.0	3.7	3.5	3.2	3.0	2.9	2.7	2.4	
	70	F	0.13	10.5	8.7	7.5	6.5	5.8	5.2	4.8	4.4	4.0	3.7	3.5	3.3	3.1	2.9	2.6	
	80	F	0.14	11.2	9.3	8.0	7.0	6.2	5.6	5.1	4.7	4.3	4.0	3.7	3.5	3.3	3.1	2.8	
	90	F	0.15	11.9	9.9	8.5	7.4	6.6	5.9	5.4	5.0	4.6	4.2	4.0	3.7	3.5	3.3	3.0	
	100	F	0.16	12.5	10.4	8.9	7.8	7.0	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7	3.5	3.1	
120	F	0.17	13.7	11.4	9.8	8.6	7.6	6.9	6.2	5.7	5.3	4.9	4.6	4.3	4.0	3.8	3.4		
	30	C M	0.13	10.3	8.6	7.3	6.4	5.7	5.1	4.7	4.3	4.0	3.7	3.4	3.2	3.0	2.9	2.6	
	40	M	0.15	11.9	9.9	8.5	7.4	6.6	5.9	5.4	5.0	4.6	4.2	4.0	3.7	3.5	3.3	3.0	
	50	M	0.17	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	
	60	M	0.18	14.5	12.1	10.4	9.1	8.1	7.3	6.6	6.1	5.6	5.2	4.8	4.5	4.3	4.0	3.6	
	70	M	0.20	15.7	13.1	11.2	9.8	8.7	7.9	7.1	6.5	6.0	5.6	5.2	4.9	4.6	4.4	3.9	
	80	M F	0.21	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	
	90	M F	0.23	17.8	14.9	12.7	11.1	9.9	8.9	8.1	7.4	6.9	6.4	5.9	5.6	5.2	5.0	4.5	
	100	F	0.24	18.8	15.7	13.4	11.7	10.4	9.4	8.5	7.8	7.2	6.7	6.3	5.9	5.5	5.2	4.7	
120	F	0.26	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		
	30	C M	0.17	13.7	11.4	9.8	8.6	7.6	6.9	6.2	5.7	5.3	4.9	4.6	4.3	4.0	3.8	3.4	
	40	C M	0.20	15.8	13.2	11.3	9.9	8.8	7.9	7.2	6.6	6.1	5.7	5.3	5.0	4.7	4.4	4.0	
	50	C M	0.22	17.7	14.8	12.6	11.1	9.8	8.9	8.0	7.4	6.8	6.3	5.9	5.5	5.2	4.9	4.4	
	60	M	0.24	19.4	16.2	13.9	12.1	10.8	9.7	8.8	8.1	7.5	6.9	6.5	6.1	5.7	5.4	4.8	
	70	M	0.26	21.0	17.5	15.0	13.1	11.6	10.5	9.5	8.7	8.1	7.5	7.0	6.5	6.2	5.8	5.2	
	80	M F	0.28	22.4	18.7	16.0	14.0	12.4	11.2	10.2	9.3	8.6	8.0	7.5	7.0	6.6	6.2	5.6	
	90	M F	0.30	23.8	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4	7.0	6.6	5.9	
	100	M F	0.32	25.0	20.9	17.9	15.7	13.9	12.5	11.4	10.4	9.6	8.9	8.3	7.8	7.4	7.0	6.3	
120	F	0.35	27.4	22.9	19.6	17.1	15.2	13.7	12.5	11.4	10.6	9.8	9.1	8.6	8.1	7.6	6.9		
	30	VC C	0.22	17.1	14.3	12.2	10.7	9.5	8.6	7.8	7.1	6.6	6.1	5.7	5.4	5.0	4.8	4.3	
	40	C	0.25	19.8	16.5	14.1	12.4	11.0	9.9	9.0	8.3	7.6	7.1	6.6	6.2	5.8	5.5	5.0	
	50	C M	0.28	22.1	18.4	15.8	13.8	12.3	11.1	10.1	9.2	8.5	7.9	7.4	6.9	6.5	6.1	5.5	
	60	M	0.31	24.2	20.2	17.3	15.2	13.5	12.1	11.0	10.1	9.3	8.7	8.1	7.6	7.1	6.7	6.1	
	70	M	0.33	26.2	21.8	18.7	16.4	14.6	13.1	11.9	10.9	10.1	9.4	8.7	8.2	7.7	7.3	6.5	
	80	M F	0.35	28.0	23.3	20.0	17.5	15.6	14.0	12.7	11.7	10.8	10.0	9.3	8.8	8.2	7.8	7.0	
	90	M F	0.38	29.7	24.8	21.2	18.6	16.5	14.9	13.5	12.4	11.4	10.6	9.9	9.3	8.7	8.3	7.4	
	100	M F	0.40	31.3	26.1	22.4	19.6	17.4	15.7	14.2	13.0	12.0	11.2	10.4	9.8	9.2	8.7	7.8	
120	F	0.43	34.3	28.6	24.5	21.4	19.1	17.1	15.6	14.3	13.2	12.2	11.4	10.7	10.1	9.5	8.6		
	30	VC C	0.26	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	
	40	C	0.30	23.8	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	7.9	7.4	7.0	6.6	5.9	
	50	C M	0.34	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	
	60	M	0.37	29.1	24.2	20.8	18.2	16.2	14.5	13.2	12.1	11.2	10.4	9.7	9.1	8.6	8.1	7.3	
	70	M	0.40	31.4	26.2	22.5	19.6	17.5	15.7	14.3	13.1	12.1	11.2	10.5	9.8	9.2	8.7	7.9	
	80	M F	0.42	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	
	90	M F	0.45	35.6	29.7	25.5	22.3	19.8	17.8	16.2	14.9	13.7	12.7	11.9	11.1	10.5	9.9	8.9	
	100	M F	0.47	37.6	31.3	26.8	23.5	20.9	18.8	17.1	15.7	14.4	13.4	12.5	11.7	11.0	10.4	9.4	
120	F	0.52	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		

	Liquid Pressure PSI	Droplet Size ASABE	Nozzle Capacity GPM	GALLONS PER ACRE BASED ON 15" NOZZLE SPACING															
				5 MPH	6 MPH	7 MPH	8 MPH	9 MPH	10 MPH	11 MPH	12 MPH	13 MPH	14 MPH	15 MPH	16 MPH	17 MPH	18 MPH	20 MPH	
 TADF04	30	VC C	0.35	27.4	22.9	19.6	17.1	15.2	13.7	12.5	11.4	10.6	9.8	9.1	8.6	8.1	7.6	6.9	
	40	C	0.40	31.7	26.4	22.6	19.8	17.6	15.8	14.4	13.2	12.2	11.3	10.6	9.9	9.3	8.8	7.9	
	50	C M	0.45	35.4	29.5	25.3	22.1	19.7	17.7	16.1	14.8	13.6	12.6	11.8	11.1	10.4	9.8	8.9	
	60	M	0.49	38.8	32.3	27.7	24.2	21.6	19.4	17.6	16.2	14.9	13.9	12.9	12.1	11.4	10.8	9.7	
	70	M	0.53	41.9	34.9	29.9	26.2	23.3	21.0	19.0	17.5	16.1	15.0	14.0	13.1	12.3	11.6	10.5	
	80	M F	0.57	44.8	37.3	32.0	28.0	24.9	22.4	20.4	18.7	17.2	16.0	14.9	14.0	13.2	12.4	11.2	
	90	M F	0.60	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	
	100	M F	0.63	50.1	41.7	35.8	31.3	27.8	25.0	22.8	20.9	19.3	17.9	16.7	15.7	14.7	13.9	12.5	
120	M F	0.69	54.9	45.7	39.2	34.3	30.5	27.4	24.9	22.9	21.1	19.6	18.3	17.1	16.1	15.2	13.7		
 TADF05	30	VC C	0.43	34.3	28.6	24.5	21.4	19.1	17.1	15.6	14.3	13.2	12.2	11.4	10.7	10.1	9.5	8.6	
	40	VC C	0.50	39.6	33.0	28.3	24.8	22.0	19.8	18.0	16.5	15.2	14.1	13.2	12.4	11.6	11.0	9.9	
	50	C M	0.56	44.3	36.9	31.6	27.7	24.6	22.1	20.1	18.4	17.0	15.8	14.8	13.8	13.0	12.3	11.1	
	60	C M	0.61	48.5	40.4	34.6	30.3	26.9	24.2	22.0	20.2	18.7	17.3	16.2	15.2	14.3	13.5	12.1	
	70	M	0.66	52.4	43.7	37.4	32.7	29.1	26.2	23.8	21.8	20.1	18.7	17.5	16.4	15.4	14.6	13.1	
	80	M	0.71	56.0	46.7	40.0	35.0	31.1	28.0	25.5	23.3	21.5	20.0	18.7	17.5	16.5	15.6	14.0	
	90	M F	0.75	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	
	100	M F	0.79	62.6	52.2	44.7	39.1	34.8	31.3	28.5	26.1	24.1	22.4	20.9	19.6	18.4	17.4	15.7	
120	M F	0.87	68.6	57.2	49.0	42.9	38.1	34.3	31.2	28.6	26.4	24.5	22.9	21.4	20.2	19.1	17.1		
 TADF06	30	VC	0.52	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	
	40	VC	0.60	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	
	50	C	0.67	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	
	60	C	0.73	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	
	70	M	0.79	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	
	80	M	0.85	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	
	90	M	0.90	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	
	100	M	0.95	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	
120	M	1.04	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		
 TADF08	30	VC	0.69	54.9	45.7	39.2	34.3	30.5	27.4	24.9	22.9	21.1	19.6	18.3	17.1	16.1	15.2	13.7	
	40	VC	0.80	63.4	52.8	45.3	39.6	35.2	31.7	28.8	26.4	24.4	22.6	21.1	19.8	18.6	17.6	15.8	
	50	C	0.89	70.8	59.0	50.6	44.3	39.4	35.4	32.2	29.5	27.2	25.3	23.6	22.1	20.8	19.7	17.7	
	60	C	0.98	77.6	64.7	55.4	48.5	43.1	38.8	35.3	32.3	29.8	27.7	25.9	24.2	22.8	21.6	19.4	
	70	M	1.06	83.8	69.8	59.9	52.4	46.6	41.9	38.1	34.9	32.2	29.9	27.9	26.2	24.7	23.3	21.0	
	80	M	1.13	89.6	74.7	64.0	56.0	49.8	44.8	40.7	37.3	34.5	32.0	29.9	28.0	26.4	24.9	22.4	
	90	M	1.20	95.0	79.2	67.9	59.4	52.8	47.5	43.2	39.6	36.6	33.9	31.7	29.7	28.0	26.4	23.8	
	100	M	1.26	100.2	83.5	71.6	62.6	55.7	50.1	45.5	41.7	38.5	35.8	33.4	31.3	29.5	27.8	25.0	
120	M	1.39	109.7	91.5	78.4	68.6	61.0	54.9	49.9	45.7	42.2	39.2	36.6	34.3	32.3	30.5	27.4		
 TADF10	30	XC	0.87	68.6	57.2	49.0	42.9	38.1	34.3	31.2	28.6	26.4	24.5	22.9	21.4	20.2	19.1	17.1	
	40	XC	1.00	79.2	66.0	56.6	49.5	44.0	39.6	36.0	33.0	30.5	28.3	26.4	24.8	23.3	22.0	19.8	
	50	VC	1.12	88.5	73.8	63.2	55.3	49.2	44.3	40.2	36.9	34.1	31.6	29.5	27.7	26.0	24.6	22.1	
	60	VC	1.22	97.0	80.8	69.3	60.6	53.9	48.5	44.1	40.4	37.3	34.6	32.3	30.3	28.5	26.9	24.2	
	70	VC	1.32	104.8	87.3	74.8	65.5	58.2	52.4	47.6	43.7	40.3	37.4	34.9	32.7	30.8	29.1	26.2	
	80	C	1.41	112.0	93.3	80.0	70.0	62.2	56.0	50.9	46.7	43.1	40.0	37.3	35.0	32.9	31.1	28.0	
	90	C	1.50	118.8	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	29.7	
	100	M	1.58	125.2	104.4	89.4	78.3	69.6	62.6	56.9	52.2	48.2	44.7	41.7	39.1	36.8	34.8	31.3	
120	M	1.73	137.2	114.3	98.0	85.7	76.2	68.6	62.4	57.2	52.8	49.0	45.7	42.9	40.3	38.1	34.3		
 TADF15 (uses 24 mesh)	30		1.30	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	
	40		1.50	118.8	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4	39.6	37.1	34.9	33.0	29.7	
	50		1.68	132.8	110.7	94.9	83.0	73.8	66.4	60.4	55.3	51.1	47.4	44.3	41.5	39.1	36.9	33.2	
	60		1.84	145.5	121.2	103.9	90.9	80.8	72.7	66.1	60.6	56.0	52.0	48.5	45.5	42.8	40.4	36.4	
	70		1.98	157.2	131.0	112.3	98.2	87.3	78.6	71.4	65.5	60.4	56.1	52.4	49.1	46.2	43.7	39.3	
	80		2.12	168.0	140.0	120.0	105.0	93.3	84.0	76.4	70.0	64.6	60.0	56.0	52.5	49.4	46.7	42.0	
	90		2.25	178.2	148.5	127.3	111.4	99.0	89.1	81.0	74.3	68.5	63.6	59.4	55.7	52.4	49.5	44.6	
	100		2.37	187.8	156.5	134.2	117.4	104.4	93.9	85.4	78.3	72.2	67.1	62.6	58.7	55.2	52.2	47.0	
120		2.60	205.8	171.5	147.0	128.6	114.3	102.9	93.5	85.7	79.1	73.5	68.6	64.3	60.5	57.2	51.4		