

# TURBODROP®



## High Pressure TurboDrop® Flat Fan Nozzle and TurboDrop® Asymmetric TwinFan Nozzle

TURBODROP®  
HIGH PRESSURE  
FULL CERAMIC  
(TDCFFC)



TDCFFC11001  
TDCFFC110015  
TDCFFC11002  
TDCFFC110025  
TDCFFC11003  
TDCFFC11004  
TDCFFC11005  
TDCFFC11006  
TDCFFC11008  
TDCFFC11010

The high pressure TurboDrop® nozzle is available in a single fan or asymmetric twinfan version. Both nozzles utilize a ceramic metering orifice and ceramic pattern orifices to provide the longest wear life. The high pressure TurboDrop® nozzles provide the same combination of drift control and coverage that the medium pressure TurboDrop® nozzles deliver, but at a higher pressure range.

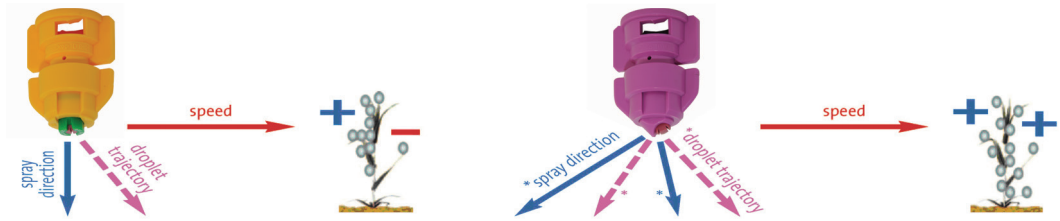
The single fan TDCFFC nozzle may be used to provide maximum canopy penetration. The asymmetric twinfan (TDAT) splits the flow into two equal 110° patterns, one directed 10° forward and the other 50° rearward, to improve backside coverage on vertical or angular targets. In most sizes of the TDAT, the droplet size remains Coarse up to about 100 psi. The next size smaller pattern orifice, with the same Venturi, may be used to provide a Medium droplet spectrum.

With single flat fan nozzles, the force from the travel speed of the sprayer deflects the downward oriented droplets forward in the driving direction. Coverage on the backside of the plant is minimized. The 50° rearward spray of the TDAT is designed to overcome this effect and improve backside coverage. The 10° forward spray will provide a combination of penetration and frontside coverage.

TURBODROP®  
ASYMMETRIC  
TWINFAN  
(TDAT)



TDAT11001  
TDAT110015  
TDAT11002  
TDAT110025  
TDAT11003  
TDAT11004  
TDAT11005  
TDAT11006  
TDAT11008




Pressure Range: 40-150 psi

Recommended Boom Height: 18-36" (on 20" centers)

Materials of Construction: Ceramic, polyacetal, EPDM

COMPLETE NOZZLE #		LIQUID PRESSURE PSI	TDCFFC DROPLET SIZE ASABE	TDAT DROPLET SIZE ASABE	NOZZLE CAPACITY GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING									
TURBODROP® FLAT FAN NOZZLE	TURBODROP® ASYMMETRIC TWIN					4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12MPH	14 MPH	16 MPH	18 MPH
 (use 50 mesh)	 (use 50 mesh)	40	VC	VC	0.10	7.4	5.9	4.9	4.2	3.7	3.0	2.5	2.1	1.9	1.6
		50	VC	VC	0.11	8.3	6.6	5.5	4.7	4.1	3.3	2.8	2.4	2.1	1.8
		60	C	C	0.12	9.1	7.3	6.1	5.2	4.5	3.6	3.0	2.6	2.3	2.0
		70	C	C	0.13	9.8	7.9	6.5	5.6	4.9	3.9	3.3	2.8	2.5	2.2
		80	C	C	0.14	10.5	8.4	7.0	6.0	5.2	4.2	3.5	3.0	2.6	2.3
		90	M	M	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5
		100	M	M	0.16	11.7	9.4	7.8	6.7	5.9	4.7	3.9	3.4	2.9	2.6
		110	M	M	0.17	12.3	9.8	8.2	7.0	6.2	4.9	4.1	3.5	3.1	2.7
		120	M	M	0.17	12.9	10.3	8.6	7.3	6.4	5.1	4.3	3.7	3.2	2.9
		130	M	F	0.18	13.4	10.7	8.9	7.6	6.7	5.4	4.5	3.8	3.3	3.0
140	M	F	0.19	13.9	11.1	9.3	7.9	6.9	5.6	4.6	4.0	3.5	3.1		
150	M	F	0.19	14.4	11.5	9.6	8.2	7.2	5.7	4.8	4.1	3.6	3.2		
 (use 50 mesh)	 (use 50 mesh)	40	M	XC	0.15	11.1	8.9	7.4	6.4	5.6	4.5	3.7	3.2	2.8	2.5
		50	M	VC	0.17	12.4	10.0	8.3	7.1	6.2	5.0	4.1	3.6	3.1	2.8
		60	M	VC	0.18	13.6	10.9	9.1	7.8	6.8	5.5	4.5	3.9	3.4	3.0
		70	M	C	0.20	14.7	11.8	9.8	8.4	7.4	5.9	4.9	4.2	3.7	3.3
		80	M	C	0.21	15.7	12.6	10.5	9.0	7.9	6.3	5.2	4.5	3.9	3.5
		90	M	C	0.22	16.7	13.4	11.1	9.5	8.3	6.7	5.6	4.8	4.2	3.7
		100	M	C	0.24	17.6	14.1	11.7	10.1	8.8	7.0	5.9	5.0	4.4	3.9
		110	F	M	0.25	18.5	14.8	12.3	10.5	9.2	7.4	6.2	5.3	4.6	4.1
		120	F	M	0.26	19.3	15.4	12.9	11.0	9.6	7.7	6.4	5.5	4.8	4.3
		130	F	M	0.27	20.1	16.1	13.4	11.5	10.0	8.0	6.7	5.7	5.0	4.5
140	F	M	0.28	20.8	16.7	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6		
150	F	M	0.29	21.6	17.2	14.4	12.3	10.8	8.6	7.2	6.2	5.4	4.8		
 (use 50 mesh)	 (use 50 mesh)	40	XC	VC	0.20	14.8	11.9	9.9	8.5	7.4	5.9	4.9	4.2	3.7	3.3
		50	VC	VC	0.22	16.6	13.3	11.1	9.5	8.3	6.6	5.5	4.7	4.1	3.7
		60	VC	VC	0.24	18.2	14.5	12.1	10.4	9.1	7.3	6.1	5.2	4.5	4.0
		70	VC	C	0.26	19.6	15.7	13.1	11.2	9.8	7.9	6.5	5.6	4.9	4.4
		80	C	C	0.28	21.0	16.8	14.0	12.0	10.5	8.4	7.0	6.0	5.2	4.7
		90	C	C	0.30	22.3	17.8	14.8	12.7	11.1	8.9	7.4	6.4	5.6	4.9
		100	C	M	0.32	23.5	18.8	15.6	13.4	11.7	9.4	7.8	6.7	5.9	5.2
		110	C	M	0.33	24.6	19.7	16.4	14.1	12.3	9.8	8.2	7.0	6.2	5.5
		120	M	M	0.35	25.7	20.6	17.1	14.7	12.9	10.3	8.6	7.3	6.4	5.7
		130	M	M	0.36	26.8	21.4	17.8	15.3	13.4	10.7	8.9	7.6	6.7	5.9
140	M	F	0.37	27.8	22.2	18.5	15.9	13.9	11.1	9.3	7.9	6.9	6.2		
150	M	F	0.39	28.7	23.0	19.2	16.4	14.4	11.5	9.6	8.2	7.2	6.4		

# TURBODROP®



COMPLETE NOZZLE #		LIQUID PRESSURE PSI	TDCFFC DROPLET SIZE ASABE	TDAT DROPLET SIZE ASABE	NOZZLE CAPACITY GPM	GALLONS PER ACRE BASED ON 20" NOZZLE SPACING										
TURBODROP® FLAT FAN NOZZLE	TURBODROP® ASYMMETRIC TWIN		ASABE	ASABE		4 MPH	5 MPH	6 MPH	7 MPH	8 MPH	10 MPH	12MPH	14 MPH	16 MPH	18 MPH	
 (use 50 mesh)	 (use 50 mesh)	40	XC	VC	0.25	18.5	14.8	12.4	10.6	9.3	7.4	6.2	5.3	4.6	4.1	
		50	XC	VC	0.28	20.7	16.6	13.8	11.9	10.4	8.3	6.9	5.9	5.2	4.6	
		60	VC	C	0.31	22.7	18.2	15.1	13.0	11.4	9.1	7.6	6.5	5.7	5.0	
		70	VC	C	0.33	24.5	19.6	16.4	14.0	12.3	9.8	8.2	7.0	6.1	5.5	
		80	C	C	0.35	26.2	21.0	17.5	15.0	13.1	10.5	8.7	7.5	6.6	5.8	
		90	C	C	0.37	27.8	22.3	18.5	15.9	13.9	11.1	9.3	7.9	7.0	6.2	
		100	C	M	0.40	29.3	23.5	19.6	16.8	14.7	11.7	9.8	8.4	7.3	6.5	
		110	C	M	0.41	30.8	24.6	20.5	17.6	15.4	12.3	10.3	8.8	7.7	6.8	
		120	C	M	0.43	32.1	25.7	21.4	18.4	16.1	12.9	10.7	9.2	8.0	7.1	
		130	M	M	0.45	33.4	26.8	22.3	19.1	16.7	13.4	11.1	9.6	8.4	7.4	
		140	M	F	0.47	34.7	27.8	23.1	19.8	17.4	13.9	11.6	9.9	8.7	7.7	
150	M	F	0.48	35.9	28.7	23.9	20.5	18.0	14.4	12.0	10.3	9.0	8.0			
 (use 50 mesh)	 (use 50 mesh)	40	VC	VC	0.30	22.3	17.8	14.8	12.7	11.1	8.9	7.4	6.4	5.6	4.9	
		50	C	VC	0.34	24.9	19.9	16.6	14.2	12.4	10.0	8.3	7.1	6.2	5.5	
		60	C	VC	0.37	27.3	21.8	18.2	15.6	13.6	10.9	9.1	7.8	6.8	6.1	
		70	C	C	0.40	29.4	23.6	19.6	16.8	14.7	11.8	9.8	8.4	7.4	6.5	
		80	M	C	0.42	31.5	25.2	21.0	18.0	15.7	12.6	10.5	9.0	7.9	7.0	
		90	M	C	0.45	33.4	26.7	22.3	19.1	16.7	13.4	11.1	9.5	8.3	7.4	
		100	M	C	0.47	35.2	28.2	23.5	20.1	17.6	14.1	11.7	10.1	8.8	7.8	
		110	M	M	0.50	36.9	29.5	24.6	21.1	18.5	14.8	12.3	10.5	9.2	8.2	
		120	M	M	0.52	38.6	30.8	25.7	22.0	19.3	15.4	12.9	11.0	9.6	8.6	
		130	M	M	0.54	40.1	32.1	26.8	22.9	20.1	16.1	13.4	11.5	10.0	8.9	
		140	M	M	0.56	41.6	33.3	27.8	23.8	20.8	16.7	13.9	11.9	10.4	9.3	
150	M	F	0.58	43.1	34.5	28.7	24.6	21.6	17.2	14.4	12.3	10.8	9.6			
 (use 24 mesh)	 (use 50 mesh)	40	XC	XC	0.40	29.7	23.7	19.8	17.0	14.8	11.9	9.9	8.5	7.4	6.6	
		50	VC	VC	0.45	33.2	26.5	22.1	19.0	16.6	13.3	11.1	9.5	8.3	7.4	
		60	VC	VC	0.49	36.3	29.1	24.2	20.8	18.2	14.5	12.1	10.4	9.1	8.1	
		70	VC	C	0.53	39.3	31.4	26.2	22.4	19.6	15.7	13.1	11.2	9.8	8.7	
		80	C	C	0.57	42.0	33.6	28.0	24.0	21.0	16.8	14.0	12.0	10.5	9.3	
		90	C	C	0.60	44.5	35.6	29.7	25.4	22.3	17.8	14.8	12.7	11.1	9.9	
		100	C	C	0.63	46.9	37.5	31.3	26.8	23.5	18.8	15.6	13.4	11.7	10.4	
		110	M	M	0.66	49.2	39.4	32.8	28.1	24.6	19.7	16.4	14.1	12.3	10.9	
		120	M	M	0.69	51.4	41.1	34.3	29.4	25.7	20.6	17.1	14.7	12.9	11.4	
		130	M	M	0.72	53.5	42.8	35.7	30.6	26.8	21.4	17.8	15.3	13.4	11.9	
		140	M	M	0.75	55.5	44.4	37.0	31.7	27.8	22.2	18.5	15.9	13.9	12.3	
150	M	M	0.77	57.5	46.0	38.3	32.8	28.7	23.0	19.2	16.4	14.4	12.8			
 (use 24 mesh)	 (use 24 mesh)	40	XC	VC	0.50	37.1	29.7	24.8	21.2	18.6	14.9	12.4	10.6	9.3	8.3	
		50	XC	VC	0.56	41.5	33.2	27.7	23.7	20.8	16.6	13.8	11.9	10.4	9.2	
		60	VC	VC	0.61	45.5	36.4	30.3	26.0	22.7	18.2	15.2	13.0	11.4	10.1	
		70	VC	C	0.66	49.1	39.3	32.8	28.1	24.6	19.7	16.4	14.0	12.3	10.9	
		80	VC	C	0.71	52.5	42.0	35.0	30.0	26.3	21.0	17.5	15.0	13.1	11.7	
		90	C	C	0.75	55.7	44.6	37.1	31.8	27.9	22.3	18.6	15.9	13.9	12.4	
		100	C	C	0.79	58.7	47.0	39.2	33.6	29.4	23.5	19.6	16.8	14.7	13.1	
		110	C	M	0.83	61.6	49.3	41.1	35.2	30.8	24.6	20.5	17.6	15.4	13.7	
		120	C	M	0.87	64.3	51.5	42.9	36.8	32.2	25.7	21.4	18.4	16.1	14.3	
		130	C	M	0.90	67.0	53.6	44.6	38.3	33.5	26.8	22.3	19.1	16.7	14.9	
		140	M	M	0.94	69.5	55.6	46.3	39.7	34.7	27.8	23.2	19.9	17.4	15.4	
150	M	M	0.97	71.9	57.5	48.0	41.1	36.0	28.8	24.0	20.6	18.0	16.0			
 (use 24 mesh)	 (use 24 mesh)	40	XC	XC	0.60	44.6	35.7	29.7	25.5	22.3	17.8	14.9	12.7	11.1	9.9	
		50	XC	VC	0.67	49.8	39.9	33.2	28.5	24.9	19.9	16.6	14.2	12.5	11.1	
		60	XC	VC	0.74	54.6	43.7	36.4	31.2	27.3	21.8	18.2	15.6	13.6	12.1	
		70	XC	VC	0.79	59.0	47.2	39.3	33.7	29.5	23.6	19.7	16.8	14.7	13.1	
		80	XC	C	0.85	63.0	50.4	42.0	36.0	31.5	25.2	21.0	18.0	15.8	14.0	
		90	XC	C	0.90	66.8	53.5	44.6	38.2	33.4	26.7	22.3	19.1	16.7	14.9	
		100	XC	C	0.95	70.5	56.4	47.0	40.3	35.2	28.2	23.5	20.1	17.6	15.7	
		110	XC	C	1.00	73.9	59.1	49.3	42.2	37.0	29.6	24.6	21.1	18.5	16.4	
		120	XC	M	1.04	77.2	61.8	51.5	44.1	38.6	30.9	25.7	22.1	19.3	17.2	
		130	XC	M	1.08	80.3	64.3	53.6	45.9	40.2	32.1	26.8	23.0	20.1	17.9	
		140	VC	M	1.12	83.4	66.7	55.6	47.6	41.7	33.3	27.8	23.8	20.8	18.5	
150	VC	M	1.16	86.3	69.0	57.5	49.3	43.1	34.5	28.8	24.7	21.6	19.2			
 (use 24 mesh)	 (use 24 mesh)	40			0.80	59.2	47.3	39.4	33.8	29.6	23.7	19.7	16.9	14.8	13.1	
		50			0.89	66.2	52.9	44.1	37.8	33.1	26.5	22.1	18.9	16.5	14.7	
		60			0.98	72.5	58.0	48.3	41.4	36.2	29.0	24.2	20.7	18.1	16.1	
		70			1.05	78.3	62.6	52.2	44.7	39.1	31.3	26.1	22.4	19.6	17.4	
		80			1.13	83.7	66.9	55.8	47.8	41.8	33.5	27.9	23.9	20.9	18.6	
		90			1.20	88.8	71.0	59.2	50.7	44.4	35.5	29.6	25.4	22.2	19.7	
		100			1.26	93.6	74.8	62.4	53.5	46.8	37.4	31.2	26.7	23.4	20.8	
		110			1.32	98.1	78.5	65.4	56.1	49.1	39.2	32.7	28.0	24.5	21.8	
		120			1.38	102.5	82.0	68.3	58.6	51.2	41.0	34.2	29.3	25.6	22.8	
		130			1.44	106.7	85.3	71.1	61.0	53.3	42.7	35.6	30.5	26.7	23.7	
		140			1.49	110.7	88.6	73.8	63.3	55.3	44.3	36.9	31.6	27.7	24.6	
150			1.54	114.6	91.7	76.4	65.5	57.3	45.8	38.2	32.7	28.6	25.5			
 (use 24 mesh)	 (use 24 mesh)	40			1.00	74.2	59.4	49.5	42.4	37.1	29.7	24.7	21.2	18.5	16.5	
		50			1.12	83.0	66.4	55.3	47.4	41.5	33.2	27.7	23.7	20.7	18.4	
		60			1.22	90.9	72.7	60.6	51.9	45.4	36.3	30.3	26.0	22.7	20.2	
		70			1.32	98.2	78.5	65.4	56.1	49.1	39.3	32.7	28.0	24.5	21.8	
		80			1.41	104.9	83.9	70.0	60.0	52.5	42.0	35.0	30.0	26.2	23.3	
		90			1.50	111.3	89.0	74.2	63.6	55.6	44.5	37.1	31.8	27.8	24.7	
		100			1.58	117.3	93.9	78.2	67.0	58.7	46.9	39.1	33.5	29.3	26.1	
		110			1.66	123.0	98.4	82.0	70.3	61.5	49.2	41.0	35.2	30.8	27.3	
		120			1.73	128.5	102.8	85.7	73.4	64.3	51.4	42.8	36.7	32.1	28.6	
		130			1.80	133.8	107.0	89.2	76.4	66.9	53.5	44.6	38.2	33.4	29.7	
		140			1.87	138.8	111.0	92.5	79.3	69.4	5					