

QUICK REFERENCE GUIDE

NOZZLES

Step 1: CHOOSE YOUR NOZZLE

SYSTEMIC NOZZLES (OPEN BOOM)

	Excellent	Very Good	Good
Herbicides			
Soil Incorporated	•		
Pre-Emergence	•		
Post-Emergence		•	
Fungicides		•	
Insecticides		•	
Liquid Fertilizer	•		
Drift	•		



Systemic nozzles provide excellent spray distribution through a wide angle, flat spray pattern. These nozzles are excellent at reducing spray drift.



AIC TEEJET® (AIR INDUCTION FLAT FAN)

The AIC TeeJet® (Air Induction Flat Fan) nozzle is a good general purpose nozzle that can be used for both contact and systemic applications. The spray pattern is 110 degrees with tapered edges similar to a standard flat fan. This nozzle produces coarse air-filled droplets with a venturi air aspirator. The air-filled drops reduce spray drift but provide good contact coverage. Air Induction nozzles can be operated at higher spray pressures without creating excessive spray drift. Distribution AIC nozzles are best when used at pressures above 30 psi.

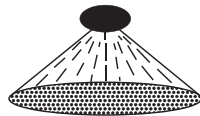
TURFJET WIDE ANGLE FLAT SPRAY

The Turfjet is a wide 130 degree angle nozzle with a tapered fan pattern. The Turfjet is best suited for systemic applications where distribution quality is the primary goal. The Turfjet creates extra coarse droplets and provides good drift control. Distribution quality is excellent at all pressures.



CONTACT NOZZLES (ANY BOOM)

	Excellent	Very Good	Good
Herbicides			
Soil Incorporated			
Pre-Emergence			
Post-Emergence	• contact/high-pressure		• systemic/low-pressure
Fungicides	• contact/high-pressure		• systemic/low-pressure
Insecticides	• contact/high-pressure		• systemic/low-pressure
Liquid Fertilizer		• systemic/low-pressure	• contact/high-pressure
Drift			• contact/high-pressure



Contact nozzles provide excellent spray distribution over a wide range of pressures. These nozzles allow for better coverage at higher pressures.

Toro exclusive AI Turbo Twin Jet in the 0.8, 1.0 and 1.5 sizes.



AIR INDUCTION TURBO TWINJET®

The Air Induction Turbo TwinJet® is an air induction style nozzle with two separate 110 degree spray patterns. One spray pattern is directed forward of vertical and the second pattern is directed rear of vertical. This nozzle creates medium and coarse droplets and is an excellent nozzle for contact applications where drift control is needed. The two independent spray patterns improve contact coverage by spraying the turf at two different angles.

XRC TEEJET® FLAT FAN

The Standard XRC Flat Fan nozzle has a 110 degree tapered spray pattern and produces medium and fine droplets. Because of the smaller droplets the Standard XRC Flat Fan is best suited for contact applications where drift control is not needed.

	Contact Products	Systemic Products	Drift Control
AIC	Good	Excellent	Excellent
AI Turbo Twinjet	Excellent	Good	Good
Turfjet	Poor	Excellent	Excellent
XRC	Excellent	Good	Poor



TIP STRAINERS

Step 2: NOZZLE SELECTION GUIDE

REMEMBER TO FILL ALL THREE NOZZLES on your turret to complete a variety of applications.

Color Code	Nozzle Options	Toro Part#	Spray Pressure psi
Yellow		120-0700	20
		120-0707	30
		95-9221	40
		Not Available	50
		120-0698	60
Red 0.4 gpm*	AIC AI Turbo TwinJet** TurfJet** XRC Tip Strainer - 50	120-0701	20
		120-0708	30
		95-9222	40
		117-5834	50
		120-0699	60
Brown 0.5 gpm*	AIC AI Turbo TwinJet** TurfJet** XRC Tip Strainer - 50	120-0702	20
		120-0709	30
		95-9223	40
		117-5835	50
		120-0699	60
Gray 0.6 gpm*	AIC AI Turbo TwinJet** TurfJet** XRC Tip Strainer - 50	120-0703	20
		120-0710	30
		95-9224	40
		117-5836	50
		120-0699	60
White 0.8 gpm*	AIC AI Turbo TwinJet TurfJet** XRC Tip Strainer - 50	120-0704	20
		120-0711	30
		95-9225	40
		117-5837	50
		120-0699	60
Blue 1.0 gpm*	AIC AI Turbo TwinJet TurfJet** XRC Tip Strainer - 50	120-0705	20
		120-0712	30
		95-9188	40
		117-5838	50
		120-0699	60
Green 1.5 gpm*	AIC AI Turbo TwinJet TurfJet** XRC Tip Strainer - 50	120-0706	20
		120-0713	30
		95-9226	40
		117-5839	50
		120-0699	60

Step 3: ORDER THE CORRECT CAPS, GASKETS AND TIP STRAINERS

	Cap	Gasket†	Tip Strainer
AIC	Included	40998	120-0698 or 120-0699
AI Turbo Twinjet	120-8570	40998	120-0698 or 120-0699
Turfjet	95-9186	40998	120-0698 or 120-0699
XRC	Included	40998	120-0698 or 120-0699

† Gaskets are included with the nozzles/caps. Order if extra gaskets are required.

Step 4: SELECT THE DESIRED MAIN SUCTION LINE FILTER

Description	80 mesh	50 mesh	30 mesh
Part Number	100-6992	100-8642	100-6991

Capacity 1 Nozzle gpm	Flow in oz/min	Gallons Per Acre – 20" Nozzle Spacing										Gallons per 1000 sq ft – 20" Nozzle Spacing							
		3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	6.5 mph	7 mph	2.5 mph	3 mph	3.5 mph	4 mph	4.5 mph	5 mph	5.5 mph	6 mph	
0.14	18	13.9	11.9	10.4	9.2	8.3	7.6	6.9	6.4	5.9	0.38	0.32	0.27	0.24	0.21	0.19	0.17	0.16	
0.17	22	16.8	14.4	12.6	11.2	10.1	9.2	8.4	7.8	7.2	0.46	0.39	0.33	0.29	0.26	0.23	0.21	0.19	
0.20	26	19.8	17.0	14.9	13.2	11.9	10.8	9.9	9.1	8.5	0.54	0.45	0.39	0.34	0.30	0.27	0.25	0.23	
0.22	28	21.8	18.7	16.3	14.5	13.1	11.9	10.9	10.1	9.3	0.60	0.50	0.43	0.37	0.33	0.30	0.27	0.25	
0.24	31	23.8	20.4	17.8	15.8	14.3	13.0	11.9	11.0	10.2	0.65	0.54	0.47	0.41	0.36	0.33	0.30	0.27	
0.26	33	25.7	22.1	19.3	17.2	15.4	14.0	12.9	11.9	11.0	0.71	0.59	0.51	0.44	0.39	0.35	0.32	0.30	
0.28	36	27.7	23.8	20.8	18.5	16.6	15.1	13.9	12.8	11.9	0.76	0.63	0.54	0.48	0.42	0.38	0.35	0.32	
0.35	45	34.7	29.7	26.0	23.1	20.8	18.9	17.3	16.0	14.9	0.95	0.79	0.68	0.60	0.53	0.48	0.43	0.40	
0.40	51	39.6	33.9	29.7	26.4	23.8	21.6	19.8	18.3	17.0	1.09	0.91	0.78	0.68	0.60	0.54	0.49	0.45	
0.45	58	44.6	38.2	33.4	29.7	26.7	24.3	22.3	20.6	19.1	1.22	1.02	0.87	0.77	0.68	0.61	0.56	0.51	
0.49	63	48.5	41.6	36.4	32.3	29.1	26.5	24.3	22.4	20.8	1.33	1.11	0.95	0.83	0.74	0.67	0.61	0.56	
0.53	68	52.5	45.0	39.4	35.0	31.5	28.6	26.2	24.2	22.5	1.44	1.20	1.03	0.90	0.80	0.72	0.66	0.60	
0.35	45	34.7	29.7	26.0	23.1	20.8	18.9	17.3	16.0	14.9	0.95	0.79	0.68	0.60	0.53	0.48	0.43	0.40	
0.43	55	42.6	36.5	31.9	28.4	25.5	23.2	21.3	19.7	18.2	1.17	0.97	0.84	0.73	0.65	0.58	0.53	0.49	
0.50	64	49.5	42.4	37.1	33.0	29.7	27.0	24.8	22.9	21.2	1.36	1.13	0.97	0.85	0.76	0.68	0.62	0.57	
0.56	72	55.4	47.5	41.6	37.0	33.3	30.2	27.7	25.6	23.8	1.52	1.27	1.09	0.95	0.85	0.76	0.69	0.63	
0.61	78	60.4	51.8	45.3	40.3	36.2	32.9	30.2	27.9	25.9	1.66	1.38	1.19	1.04	0.92	0.83	0.75	0.69	
0.66	84	65.3	56.0	49.0	43.6	39.2	35.6	32.7	30.2	28.0	1.80	1.50	1.28	1.12	1.00	0.90	0.82	0.75	
0.42	54	41.6	35.6	31.2	27.7	25.0	22.7	20.8	19.2	17.8	1.14	0.95	0.82	0.71	0.63	0.57	0.52	0.48	
0.52	67	51.5	44.1	38.6	34.3	30.9	28.1	25.7	23.8	22.1	1.41	1.18	1.01	0.88	0.79	0.71	0.64	0.59	
0.60	77	59.4	50.9	44.6	39.6	35.6	32.4	29.7	27.4	25.5	1.63	1.36	1.17	1.02	0.91	0.82	0.74	0.68	
0.67	86	66.3	56.9	49.8	44.2	39.8	36.2	33.2	30.6	28.4	1.82	1.52	1.30	1.14	1.01	0.91	0.83	0.76	
0.73	93	72.3	62.0	54.2	48.2	43.4	39.4	36.1	33.4	31.0	1.99	1.65	1.42	1.24	1.10	0.99	0.90	0.83	
0.79	101	78.2	67.0	58.7	52.1	46.9	42.7	39.1	36.1	33.5	2.15	1.79	1.53	1.34	1.19	1.07	0.98	0.90	
0.57	73	56.4	48.4	42.3	37.6	33.9	30.8	28.2	26.0	24.2	1.55	1.29	1.11	0.97	0.86	0.78	0.70	0.65	
0.69	88	68.3	58.6	51.2	45.5	41.0	37.3	34.2	31.5	29.3	1.88	1.56	1.34	1.17	1.04	0.94	0.85	0.78	
0.80	102	79.2	67.9	59.4	52.8	47.5	43.2	39.6	36.6	33.9	2.18	1.81	1.55	1.36	1.21	1.09	0.99	0.91	
0.89	114	88.1	75.5	66.1	58.7	52.9	48.1	44.1	40.7	37.8	2.42	2.02	1.73	1.51	1.34	1.21	1.10	1.01	
0.98	125	97.0	83.2	72.8	64.7	58.2	52.9	48.5	44.8	41.6	2.67	2.22	1.90	1.67	1.48	1.33	1.21	1.11	
1.06	136	104.9	90.0	78.7	70.0	63.0	57.2	52.5	48.4	45.0	2.88	2.40	2.06	1.80	1.60	1.44	1.31	1.20	
0.71	91	70.3	60.3	52.7	46.9	42.2	38.3	35.2	32.4	30.1	1.93	1.61	1.38	1.21	1.07	0.97	0.88	0.80	
0.87	111	86.1	73.8	64.6	57.4	51.7	47.0	43.1	39.8	36.9	2.37	1.97	1.69	1.48	1.31	1.18	1.08	0.99	
1.00	128	99.0	84.9	74.3	66.0	59.4	54.0	49.5	45.7	42.4	2.72	2.27	1.94	1.70	1.51	1.36	1.24	1.13	
1.12	143	110.9	95.0	83.2	73.9	66.5	60.5	55.4	51.2	47.5	3.05	2.54	2.18	1.90	1.69	1.52	1.38	1.27	
1.22	156	120.8	103.5	90.6	80.5	72.5	65.9	60.4	55.7	51.8	3.32	2.77	2.37	2.07	1.84	1.66	1.51	1.38	
1.32	169	130.7	112.0	98.0	87.1	78.4	71.3	65.3	60.3	56.0	3.59	2.99	2.56	2.24	1.99	1.80	1.63	1.50	
1.06	136	104.9	90.0	78.7	70.0	63.0	57.2	52.5	48.4	45.0	2.88	2.40	2.06	1.80	1.60	1.44	1.31	1.20	
1.30	166	128.7	110.3	96.5	85.8	77.2	70.2	64.4	59.4	55.2	3.54	2.95	2.53	2.21	1.96	1.77	1.61	1.47	
1.50	192	148.5	127.3	111.4	99.0	89.1	81.0	74.3	68.5	63.6	4.08	3.40	2.91	2.55	2.27	2.04	1.85	1.70	
1.68	215	166.3	142.6	124.7	110.9	99.8	90.7	83.2	76.8	71.3	4.57	3.81	3.26	2.86	2.54	2.28	2.08	1.90	
1.84	236	182.2	156.1	136.6	121.4	109.3	99.4	91.1	84.1	78.1	5.00	4.17	3.57	3.13	2.78	2.50	2.27	2.09	
1.98	253	196.0	168.0	147.0	130.7	117.6	106.9	98.0	90.5	84.0	5.39	4.49	3.85	3.37	2.99	2.69	2.45	2.24	

80 Mesh 100-6992

50 Mesh 100-8642
(Standard Equipment)

30 Mesh 100-6991

* Recommended Valve Cal setting in Pro Control/XP: 46 for nozzles 0.2 gpm and 0.4 gpm. Use 23 for 0.5 gpm and higher.

** TurfJet and TwinJet Air nozzles are not compatible with the Toro Drift Reduction Boom Shroud. Application rates shown for nozzle selection purposes only. Verify actual rate before spraying.

Speeds shown are for reference only. Always limit speed to maintain safe operation based on operating conditions.

TeeJet and TwinJet are registered trademarks of Spraying Systems Co.

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NOZZLES

MULTI PRO SPRAY NOZZLE SELECTION GUIDE

Color Code	Nozzle Options	Toro Part#	Spray Pressure	Flow in l/min	Liters Per Hectare – 50 cm Spacing									
					3 km/h	4 km/h	5 km/h	6 km/h	7 km/h	8 km/h	9 km/h	10 km/h	12 km/h	14 km/h
Yellow 0.2 gpm*	AIC	120-0700	1.0	0.46	184	138	110	92.0	78.9	69.0	61.3	55.2	46.0	39.4
	AI Turbo TwinJet**	120-0707	1.5	0.56	224	168	134	112	96.0	84.0	74.7	67.2	56.0	48.0
	TurfJet**	95-9221	2.0	0.65	260	195	156	130	111	97.5	86.7	78.0	65.0	55.7
	XRC	Not Available	3.0	0.79	316	237	190	158	135	119	105	94.8	79.0	67.7
	Tip Strainer – 100	120-0698	4.0	0.91	364	273	218	182	156	137	121	109	91.0	78.0
Red 0.4 gpm*	AIC	120-0701	1.0	0.91	364	273	218	182	156	137	121	109	91.0	78.0
	AI Turbo TwinJet**	120-0708	1.5	1.12	448	336	269	224	192	168	149	134	112	96.0
	TurfJet**	95-9222	2.0	1.29	516	387	310	258	221	194	172	155	129	111
	XRC	117-5834	3.0	1.58	632	474	379	316	271	237	211	190	158	135
	Tip Strainer – 50	120-0699	4.0	1.82	728	546	437	364	312	273	243	218	182	156
Brown 0.5 gpm*	AIC	120-0702	1.0	1.14	456	342	274	228	195	171	152	137	114	97.7
	AI Turbo TwinJet**	120-0709	1.5	1.39	556	417	334	278	238	209	185	167	139	119
	TurfJet**	95-9223	2.0	1.61	644	483	386	322	276	242	215	193	161	138
	XRC	117-5835	3.0	1.97	788	591	473	394	338	296	263	236	197	169
	Tip Strainer – 50	120-0699	4.0	2.27	908	681	545	454	389	341	303	272	227	195
Gray 0.6 gpm*	AIC	120-0703	1.0	1.37	548	411	329	274	235	206	183	164	137	117
	AI Turbo TwinJet**	120-0710	1.5	1.68	672	504	403	336	288	252	224	202	168	144
	TurfJet**	95-9224	2.0	1.94	776	582	466	388	333	291	259	233	194	166
	XRC	117-5836	3.0	2.37	948	711	569	474	406	356	316	284	237	203
	Tip Strainer – 50	120-0699	4.0	2.74	1096	822	658	548	470	411	365	329	274	235
White 0.8 gpm*	AIC	120-0704	1.0	1.82	728	546	437	364	312	273	243	218	182	156
	AI Turbo TwinJet	120-0711	1.5	2.23	892	669	535	446	382	335	297	268	223	191
	TurfJet**	95-9225	2.0	2.58	1032	774	619	516	442	387	344	310	258	221
	XRC	117-5837	3.0	3.16	1264	948	758	632	542	474	421	379	316	271
	Tip Strainer – 50	120-0699	4.0	3.65	1460	1095	876	730	626	548	487	438	365	313
Blue 1.0 gpm*	AIC	120-0705	1.0	2.28	912	684	547	456	391	342	304	274	228	195
	AI Turbo TwinJet	120-0712	1.5	2.79	1116	837	670	558	478	419	372	335	279	239
	TurfJet**	95-9188	2.0	3.23	1292	969	775	646	554	485	431	388	323	277
	XRC	117-5838	3.0	3.95	1580	1185	948	790	677	593	527	474	395	339
	Tip Strainer – 50	120-0699	4.0	4.56	1824	1368	1094	912	782	684	608	547	456	391
Green 1.5 gpm*	AIC	120-0706	1.0	3.42	1368	1026	821	684	586	513	456	410	342	293
	AI Turbo TwinJet	120-0713	1.5	4.19	1676	1257	1006	838	718	629	559	503	419	359
	TurfJet**	95-9226	2.0	4.83	1932	1449	1159	966	828	725	644	580	483	414
	XRC	117-5839	3.0	5.92	2368	1776	1421	1184	1015	888	789	710	592	507
	Tip Strainer – 50	120-0699	4.0	6.84	2736	2052	1642	1368	1173	1026	912	821	684	586
			5.0	7.64	3056	2292	1834	1528	1310	1146	1019	917	764	655

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