FOR STANDARD SPRAYERS

COMBO-JET® 80° Tip-Cap Performance Specifications

Please Note:
1. Flow rates based on water (80°F), applied at 20" spacing.
2. For applications where a uniform pattern is required, recommended pressure ranges for Tip-Caps are shown.
3. Cap color determined by flow rate, as per ISO standard.
4. In order to make this chart easier to use, not all available tip-cap sizes are shown. For specifications for 005, 0067, 30, 40, 50 & 60 size Tip-Caps, visit our website.

Tip Cap No.	Flow Rate L/min	BAR	Application Rate - Litres/Hectare @ 50CM							VMD (Droplet Size in µ); %<141µ (Drift %); %<200µ (Drift %); %<600µ (Small Droplets)																Tip-Cap & Part No.	
			Sprayer Speed - KM / Hour							ER80-XX TIP SERIES 80° ER Series				SR80-XX TIP SERIES 80° SR Series				MR80-XX TIP SERIES 80° MR Series				DR80-XX TIP SERIES 80° DR Series				Tip-Cap	Part #
			8	12	16	20	24	28	32	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	Strainer	
01	0.28	1.5	42	28	21	17	14	12	10	171	31%	66%	100%	279	11%	25%	97%	-	-	-	-	-	-	-	-	ER80-01	40270-01
	0.32	2.0	48	32	24	19	16	14	12	158	40%	73%	100%	238	19%	37%	97%	222	22%	42%	97%	316	9%	20%	94%	SR80-01	40288-01
	0.39	3.0	59	39	30	24	20	17	15	140	52%	83%	100%	190	32%	55%	97%	184	32%	56%	97%	264	15%	31%	97%	MR80-01	40290-01
	0.46	4.0	68	46	34	27	23	20	17	129	61%	90%	100%	162	40%	67%	98%	161	40%	66%	97%	233	19%	38%	99%	DR80-01	40280-01
	0.51	5.0	76	51	38	31	25	22	19	121	67%	96%	100%	143	47%	76%	98%	146	45%	74%	97%	211	22%	44%	100%	100 Mesh - Green	
	0.56	6.0	84	56	42	34	28	24	21	115	73%	100%	100%	129	53%	84%	98%	134	50%	80%	96%	194	24%	49%	100%	40251-00	
015	0.42	1.5	63	42	31	25	21	18	16	195	22%	52%	100%	305	10%	21%	94%	-	-	-	-	-	-	-	-	ER80-015	40270-015
	0.48	2.0	73	48	36	29	24	21	18	181	28%	58%	100%	267	16%	31%	95%	328	10%	20%	94%	422	4%	9%	86%	SR80-015	40288-015
	0.59	3.0	89	59	44	36	30	25	22	163	36%	67%	100%	221	24%	43%	96%	273	15%	30%	97%	369	6%	13%	91%	MR80-015	40290-015
	0.68	4.0	103	68	51	41	34	29	26	152	42%	73%	100%	194	29%	53%	97%	239	19%	37%	98%	336	8%	17%	93%	DR80-015	40280-015
	0.76	5.0	115	76	57	46	38	33	29	144	46%	78%	100%	175	34%	60%	98%	216	22%	43%	99%	312	9%	20%	95%	100 Mesh - Green	
	0.84	6.0	126	84	63	50	42	36	31	137	50%	82%	100%	160	37%	65%	98%	199	25%	47%	99%	294	10%	22%	96%	40251-00	
02	0.56	1.5	84	56	42	34	28	24	21	181	29%	58%	100%	287	10%	23%	93%	-	-	-	-	-	-	-	-	ER80-02	40270-02
	0.64	2.0	97	64	48	39	32	28	24	172	34%	62%	100%	260	15%	30%	95%	329	8%	17%	94%	459	3%	7%	80%	SR80-02	40288-02
	0.79	3.0	118	79	59	47	39	34	30	159	40%	68%	100%	227	22%	40%	97%	290	12%	25%	94%	410	5%	11%	85%	MR80-02	40290-02
	0.91	4.0	137	91	68	55	46	39	34	150	44%	72%	100%	206	27%	48%	97%	265	15%	31%	95%	378	6%	13%	88%	DR80-02	40280-02
	1.02	5.0	153	102	76	61	51	44	38	144	47%	75%	99%	191	30%	53%	98%	247	18%	35%	95%	355	7%	15%	90%	50 Mesh - Red	
	1.12	6.0	168	112	84	67	56	48	42	139	50%	77%	99%	179	33%	58%	98%	233	20%	38%	96%	338	8%	17%	91%	40250-00	
025	0.70	1.5	105	70	52	42	35	30	26	227	18%	39%	100%	331	7%	17%	90%	-	-	-	-	-	-	-	-	ER80-025	40270-025
	0.81	2.0	121	81	60	48	40	35	30	211	23%	45%	100%	299	11%	23%	92%	430	4%	10%	80%	463	3%	7%	77%	SR80-025	40288-025
	0.99	3.0	148	99	74	59	49	42	37	189	29%	53%	100%	260	16%	32%	95%	371	7%	15%	86%	421	5%	11%	82%	MR80-025	40290-025
	1.14	4.0	171	114	85	68	57	49	43	175	34%	59%	100%	236	20%	38%	96%	334	9%	19%	88%	394	6%	13%	84%	DR80-025	40280-025
	1.27	5.0	191	127	96	76	64	55	48	165	37%	63%	100%	218	23%	43%	97%	308	10%	22%	90%	373	7%	15%	86%	50 Mesh - Red	
	1.40	6.0	209	140	105	84	70	60	52	158	40%	66%	99%	205	25%	47%	97%	289	12%	24%	91%	358	8%	16%	88%	40250-00	
03	0.84	1.5	126	84	63	50	42	36	31	244	18%	40%	99%	388	6%	11%	87%	-	-	-	-	-	-	-	-	ER80-03	40270-03
	0.97	2.0	145	97	73	58	48	41	36	230	22%	44%	99%	349	9%	17%	89%	437	4%	10%	80%	485	3%	7%	71%	SR80-03	40288-03
	1.18	3.0	178	118	89	71	59	51	44	211	27%	50%	99%	300	13%	25%	91%	378	7%	15%	86%	437	5%	10%	78%	MR80-03	40290-03
	1.37	4.0	205	137	103	82	68	59	51	199	31%	55%	99%	269	16%	30%	93%	341	9%	19%	89%	406	6%	13%	82%	DR80-03	40280-03
	1.53	5.0	229	153	115	92	76	66	57	190	34%	58%	99%	248	19%	34%	93%	315	10%	21%	91%	384	7%	15%	85%	50 Mesh - Red	
	1.68	6.0	251	168	126	101	84	72	63	182	36%	61%	99%	232	21%	38%	94%	295	12%	24%	92%	366	8%	16%	87%	40250-00	
04	1.12	1.5	168	112	84	67	56	48	42	246	17%	35%	99%	387	4%	13%	84%	-	-	-	-	-	-	-	-	ER80-04	40270-04
	1.29	2.0	193	129	97	77	64	55	48	232	20%	40%	99%	348	7%	18%	87%	424	5%	11%	80%	547	2%	4%	61%	SR80-04	40288-04
	1.58	3.0	237	158	118	95	79	68	59	212	25%	46%	99%	300	11%	26%	90%	376	8%	16%	85%	497	3%	7%	70%	MR80-04	40290-04
	1.82	4.0	274	182	137	109	91	78	68	200	28%	50%	99%	271	13%	31%	91%	345	10%	19%	87%	463	4%	9%	75%	DR80-04	40280-04
	2.04	5.0	306	204	153	122	102	87	76	190	30%	53%	99%	249	15%	35%	93%	322	11%	22%	89%	439	5%	10%	78%	50 Mesh - Red	
	2.23	6.0	335	223	168	134	112	96	84	183	32%	56%	99%	233	17%	38%	93%	305	13%	24%	91%	421	5%	11%	80%	40250-00	
05	1.40	1.5	209	140	105	84	70	60	52	290	12%	26%	95%	431	4%	9%	79%	-	-	-	-	-	-	-	-	ER80-05	40270-05
	1.61	2.0	242	161	121	97	81	69	60	269	16%	31%	95%	386	7%	14%	82%	508	3%	6%	67%	579	2%	4%	55%	SR80-05	40288-05
	1.97	3.0	296	197	148	118	99	85	74	243	21%	38%	95%	331	11%	21%	86%	455	5%	10%	75%	528	3%	6%	64%	MR80-05	40290-05
	2.28	4.0	342	228	171	137	114	98	85	226	24%	43%	95%	297	13%	26%	89%	421	6%	12%	79%	495	3%	7%	69%	DR80-05	40280-05
	2.55	5.0	382	255	191	153	127	109	96	214	27%	46%	95%	273	15%	30%	90%	396	7%	14%	82%	471	4%	9%	73%	50 Mesh - Red	
	2.79	6.0	419	279	209	168	140	120	105	204	29%	50%	95%	255	17%	33%	91%	376	7%	15%	84%	452	4%	10%	75%	40250-00	
06	1.68	1.5	251	168	126	101	84	72	63	316	13%	21%	92%	456	3%	8%	76%	-	-	-	-	-	-	-	-	ER80-06	40270-06
	1.93	2.0	290	193	145	116	97	83	73	298	16%	25%	91%	423	5%	11%	80%	530	2%	5%	63%	600	1%	4%	51%	SR80-06	40288-06
	2.37	3.0	355	237	178	142	118	102	89	275	21%	30%	91%	381	7%	15%	85%	483	4%	8%	71%	555	2%	6%	58%	MR80-06	40290-06
	2.74	4.0	410	274	205	164	137	117	103	259	24%	34%	90%	354	9%	18%	88%	452	5%	10%	76%	524	3%	7%	63%	DR80-06	40280-06
	3.06	5.0	459	306	229	183	153	131	115	247	26%	37%	90%	334	10%	20%	89%	429	5%	12%	79%	502	3%	9%	66%	50 Mesh - Red	
	3.35	6.0	503	335	251	201	168	144	126	238	28%	39%	89%	319	11%	22%	91%	411	6%	13%	81%	484	4%	10%	69%	40250-00	

Droplet Categories as per **ASABE S572.1** Classification (2009-current)

Extremely Fine	Very Fine	Fine	Medium	Coarse	Very Coarse	Extremely Coarse	Ultra Coarse
<60	60-105µ	106-235µ	236-340µ	341-403µ	404-502µ	503-665µ	>665µ

VMD
Volume Median Diameter
Size of the median droplet in microns (µ) for a sprayed volume. Half of the volume is made up of droplets smaller than the VMD; half is made up of droplets larger.

% <141µ
% Driftable Fines
Percentage of volume which is likely to drift. 141µ is now replacing 200µ as the new standard for driftable fines.

% <200µ
% Driftable Fines
Percentage of volume which is likely to drift. 200µ is shown for reference. 141µ is used as the new standard for driftable fines.

% <600µ
% Useful Droplets
Percentage of volume which is made up of 'useful' droplets. As the distribution of useful droplets lowers, coverage is reduced.

Strainer Mesh & Tips
Recommended Strainer mesh
Mesh of strainer determined by the size of a tip. For larger tips (08+), strainers are not required.

FOR STANDARD SPRAYERS

COMBO-JET® 80° Tip-Cap Performance Specifications

Please Note:
1. Flow rates based on water (80°F), applied at 20" spacing.
2. For applications where a uniform pattern is required, recommended pressure ranges for Tip-Caps are shown.
3. Cap color determined by flow rate, as per ISO standard.
4. In order to make this chart easier to use, not all available tip-cap sizes are shown. For specifications for 005, 0067, 30, 40, 50 & 60 size Tip-Caps, visit our website.

Tip Cap No.	Flow Rate L/min	BAR	Application Rate - Litres/Hectare @ 50CM							ER80-XX TIP SERIES Recommended Pressure: 20-70 PSI				SR80-XX TIP SERIES Recommended Pressure: 20-100 PSI				MR80-XX TIP SERIES Recommended Pressure: 25-100 PSI				DR80-XX TIP SERIES Recommended Pressure: 30-100 PSI				SPRAY TIP PART #	
			Sprayer Speed - KM / Hour							VMD (Droplet Size in µ); %<141µ (Drift %); %<200µ (Drift %); %<600µ (Small Droplets)																Tip-Cap & Part No.	
										80° ER Series				80° SR Series				80° MR Series				80° DR Series				Tip-Cap	Part #
			8	12	16	20	24	28	32	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	VMD	<141	<200	<600	Strainer not req'd	
08	2.23	1.5	335	223	168	134	112	96	84	**356**	13%	24%	87%	**536**	6%	10%	49%	-	-	-	-	-	-	-	-	ER80-08	40270-08
	2.58	2.0	387	258	193	155	129	111	97	**321**	17%	29%	90%	**495**	7%	12%	58%	**545**	6%	10%	63%	**623**	3%	5%	51%	SR80-08	40288-08
	3.16	3.0	474	316	237	190	158	135	118	**277**	22%	35%	93%	**437**	10%	15%	68%	**488**	8%	15%	71%	**575**	4%	7%	59%	MR80-08	40290-08
	3.65	4.0	547	365	274	219	182	156	137	**250**	25%	40%	95%	**395**	11%	18%	73%	**452**	10%	18%	75%	**543**	5%	9%	64%	DR80-08	40280-08
	4.08	5.0	612	408	306	245	204	175	153	**231**	28%	43%	96%	**363**	12%	19%	77%	**426**	11%	20%	79%	**519**	6%	10%	68%		
	4.47	6.0	670	447	335	268	223	191	168	**216**	30%	46%	96%	**337**	13%	21%	80%	**405**	12%	22%	81%	**500**	6%	11%	70%		
10	2.79	1.5	419	279	209	168	140	120	105	**446**	9%	17%	79%	**556**	5%	8%	45%	-	-	-	-	-	-	-	-	ER80-10	40270-10
	3.22	2.0	484	322	242	193	161	138	121	**409**	12%	20%	81%	**516**	6%	10%	54%	**550**	5%	8%	62%	**615**	4%	6%	52%	SR80-10	40288-10
	3.95	3.0	592	395	296	237	197	169	148	**361**	15%	25%	85%	**460**	8%	14%	65%	**504**	6%	12%	68%	**574**	5%	8%	58%	MR80-10	40290-10
	4.56	4.0	684	456	342	274	228	195	171	**331**	17%	29%	87%	**420**	9%	16%	70%	**473**	7%	14%	72%	**547**	6%	10%	63%	DR80-10	40280-10
	5.10	5.0	765	510	382	306	255	218	191	**309**	19%	31%	88%	**389**	10%	18%	74%	**451**	8%	16%	75%	**527**	7%	11%	65%		
	5.58	6.0	838	558	419	335	279	239	209	**293**	21%	34%	89%	**364**	11%	19%	77%	**433**	9%	18%	77%	**511**	7%	12%	68%		
125	3.49	1.5	523	349	262	209	174	150	131	**448**	10%	18%	77%	**548**	5%	9%	48%	-	-	-	-	-	-	-	-	ER80-125	40270-125
	4.03	2.0	604	403	302	242	201	173	151	**416**	11%	20%	80%	**513**	7%	11%	54%	**588**	5%	9%	55%	**628**	4%	6%	49%	SR80-125	40288-125
	4.94	3.0	740	494	370	296	247	212	185	**375**	13%	24%	84%	**464**	8%	14%	62%	**548**	7%	12%	61%	**587**	5%	8%	55%	MR80-125	40290-125
	5.70	4.0	855	570	427	342	285	244	214	**348**	15%	27%	86%	**429**	10%	16%	67%	**522**	8%	14%	65%	**560**	6%	10%	59%	DR80-125	40280-125
	6.37	5.0	956	637	478	382	319	273	239	**328**	16%	29%	88%	**403**	11%	17%	71%	**502**	8%	15%	68%	**539**	6%	11%	62%		
	6.98	6.0	1047	698	523	419	349	299	262	**313**	17%	30%	89%	**381**	12%	19%	73%	**486**	9%	17%	70%	**523**	7%	12%	64%		
15	4.19	1.5	628	419	314	251	209	179	157	**452**	8%	15%	77%	592	5%	7%	40%	-	-	-	-	-	-	-	-	ER80-15	40270-15
	4.84	2.0	725	484	363	290	242	207	181	**416**	10%	18%	79%	**558**	6%	9%	47%	**517**	7%	12%	66%	**641**	3%	4%	47%	SR80-15	40288-15
	5.92	3.0	888	592	444	355	296	254	222	**370**	13%	23%	81%	**509**	6%	11%	55%	**471**	9%	16%	71%	**596**	3%	6%	54%	MR80-15	40290-15
	6.84	4.0	1026	684	513	410	342	293	256	**340**	15%	27%	83%	**475**	7%	12%	60%	**441**	10%	18%	75%	**566**	4%	7%	59%	DR80-15	40280-15
	7.65	5.0	1147	765	573	459	382	328	287	**319**	17%	29%	84%	**448**	8%	13%	64%	**419**	11%	20%	77%	**544**	5%	9%	62%		
	8.38	6.0	1256	838	628	503	419	359	314	**302**	18%	31%	85%	**426**	8%	14%	67%	**402**	12%	21%	79%	**526**	5%	10%	64%		
20	5.58	1.5	838	558	419	335	279	239	209	**500**	7%	13%	68%	**592**	5%	7%	40%	-	-	-	-	-	-	-	-	ER80-20	40270-20
	6.45	2.0	967	645	484	387	322	276	242	**464**	9%	15%	73%	**555**	5%	8%	47%	**569**	5%	8%	58%	**633**	3%	5%	50%	SR80-20	40288-20
	7.90	3.0	1184	790	592	474	395	338	296	**418**	11%	19%	77%	**504**	6%	10%	56%	**512**	6%	12%	65%	**575**	4%	7%	58%	MR80-20	40290-20
	9.12	4.0	1368	912	684	547	456	391	342	**388**	13%	22%	80%	**468**	7%	12%	61%	**476**	8%	14%	70%	**537**	5%	9%	63%	DR80-20	40280-20
	10.19	5.0	1529	1019	765	612	510	437	382	**366**	14%	24%	82%	**440**	7%	13%	65%	**449**	8%	16%	73%	**509**	5%	10%	67%		
	11.17	6.0	1675	1117	838	670	558	479	419	**349**	15%	26%	84%	**417**	8%	14%	67%	**428**	9%	18%	75%	**488**	6%	12%	69%		
25	6.98	1.5	1047	698	523	419	349	299	262	**504**	8%	13%	69%	**547**	5%	7%	48%	-	-	-	-	-	-	-	-	ER80-25	40270-25
	8.06	2.0	1209	806	604	484	403	345	302	**466**	9%	16%	72%	**515**	5%	9%	53%	**608**	4%	6%	54%	**662**	2%	4%	45%	SR80-25	40288-25
	9.87	3.0	1481	987	740	592	494	423	370	**418**	12%	20%	76%	**470**	7%	11%	60%	**556**	5%	8%	61%	**605**	3%	6%	54%	MR80-25	40290-25
	11.40	4.0	1710	1140	855	684	570	488	427	**387**	13%	23%	78%	**438**	7%	12%	64%	**521**	5%	10%	65%	**567**	4%	7%	59%	DR80-25	40280-25
	12.74	5.0	1911	1274	956	765	637	546	478	**364**	15%	25%	80%	**413**	8%	13%	67%	**496**	6%	11%	68%	**540**	4%	8%	63%		
	13.96	6.0	2094	1396	1047	838	698	598	523	**347**	16%	27%	81%	**393**	8%	14%	69%	**477**	6%	13%	70%	**518**	4%	9%	66%		

*Droplet categories: The above chart is based on the ASABE Standard 572.1. Refer to chemical label to verify which ASABE S572.1 categories should be followed.

Droplet Categories as per **ASABE S572.1** Classification (2009-current)

Extremely Fine	Very Fine	Fine	Medium	Coarse	Very Coarse	Extremely Coarse	Ultra Coarse
<60	60-105µ	106-235µ	236-340µ	341-403µ	404-502µ	503-665µ	>665µ

Combo-Jet® Adapters

Square Lug Compatibility

Combo-Jet® tip-caps use a radialock O-ring seal to secure the cap to the nozzle body. Adapters are available to mount a radialock cap on a non-radialock nozzle body.

New for 2017
Lock Nut Adapter
(#40204-00)

ASABE Droplet Categories

Color Classifications

The colors associated with the VMD is based on an ASABE standard for droplet size categorization. See categories and colors above. Refer to wilger.net for older ASABE standard S572.

Recommended Pressure

Pressure Range for Tips

For applications which require a uniform pattern, the recommended pressure range is provided. Specified pressure in chart is boom pressure.

Pre-orifice Length & Color

Differences in tip pre-orifices

Pre-orifice color and length vary for some tips. SR-series pre-orifices will vary in color from the color of the cap. MR & DR pre-orifices will be the same color as the cap. Pre-orifices for high volume tips use a longer pre-orifice.

Have you tried the TIP WIZARD?

An easy to use spray tip calculator that helps find the best spray tip for your application.
It is as easy as entering your application, and seeing the results.
Tip Wizard is available on the wilger.net website, FREE smartphone app, and Wilger USB.

WILGER

TIP WIZARD