

FOR STANDARD SPRAYERS

COMBO-JET® 110° 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.										ER110-XX TIP SERIES				SR110-XX TIP SERIES				MR110-XX TIP SERIES				DR110-XX TIP SERIES				SPRAY TIP PART #		
										Recommended Pressure: 20-70 PSI				Recommended Pressure: 20-100 PSI				Recommended Pressure: 25-100 PSI				Recommended Pressure: 30-100 PSI						
Tip Cap No.	Flow Rate L/min	BAR	Application Rate - Litres /Hectare @ 50CM @ Sprayer Speed - km/h (rounded)								VMD (Droplet Size in µ); %<141µ (Drift %); %<200µ (Drift %); %<600µ (Small Droplets)												Tip-Cap & Part No.					
											110° ER Series				110° SR Series				110° MR Series				110° DR Series				Tip-Cap Part #	
			8	12	16	20	24	28	32	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	147	46%	85%	100%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-01	40281-01	
	0.32	2.0	48	32	24	19	16	14	12	140	51%	87%	100%	-	-	-	-	-	-	-	-	-	-	-	-	SR110-01	40287-01	
	0.39	3.0	59	39	30	24	20	17	15	131	57%	90%	100%	-	-	-	-	-	-	-	-	-	-	-	-	MR110-01	40291-01	
	0.46	4.0	68	46	34	27	23	20	17	125	62%	92%	100%	-	-	-	-	-	-	-	-	-	-	-	-	DR110-01	40286-01	
	0.51	5.0	76	51	38	31	25	22	19	120	65%	94%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	100 Mesh - Green	40251-00
	0.56	6.0	84	56	42	34	28	24	21	116	68%	95%	100%	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
015	0.42	1.5	63	42	31	25	21	18	16	151	42%	78%	100%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-015	40281-015	
	0.48	2.0	73	48	36	29	24	21	18	145	46%	80%	100%	217	23%	44%	98%	327	11%	21%	94%	371	7%	14%	91%	SR110-015	40287-015	
	0.59	3.0	89	59	44	36	30	25	22	137	53%	84%	100%	195	30%	52%	98%	266	17%	32%	98%	318	11%	22%	94%	MR110-015	40291-015	
	0.68	4.0	103	68	51	41	34	29	26	132	58%	87%	100%	179	34%	58%	98%	229	22%	41%	99%	284	13%	27%	96%	DR110-015	40286-015	
	0.76	5.0	115	76	57	46	38	33	29	127	61%	89%	100%	167	37%	63%	98%	204	26%	47%	99%	261	16%	31%	97%	100 Mesh - Green	40251-00	
	0.84	6.0	126	84	63	50	42	36	31	124	64%	91%	100%	157	40%	67%	98%	186	29%	52%	100%	243	17%	34%	97%	-	-	-
02	0.56	1.5	84	56	42	34	28	24	21	170	33%	64%	100%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-02	40281-02	
	0.64	2.0	97	64	48	39	32	28	24	161	39%	68%	100%	220	22%	43%	99%	320	11%	22%	95%	436	4%	10%	82%	SR110-02	40287-02	
	0.79	3.0	118	79	59	47	39	34	30	148	46%	75%	100%	202	27%	50%	99%	269	17%	32%	97%	380	7%	15%	88%	MR110-02	40291-02	
	0.91	4.0	137	91	68	55	46	39	34	139	52%	80%	100%	189	30%	55%	99%	238	21%	38%	98%	341	9%	18%	91%	DR110-02	40286-02	
	1.02	5.0	153	102	76	61	51	44	38	132	56%	83%	100%	179	33%	58%	99%	217	24%	43%	98%	310	10%	21%	93%	50 Mesh - Red	40251-00	
	1.12	6.0	168	112	84	67	56	48	42	126	59%	86%	100%	171	35%	61%	99%	201	26%	47%	99%	286	12%	23%	94%	-	-	-
025	0.70	1.5	105	70	52	42	35	30	26	192	29%	54%	100%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-025	40281-025	
	0.81	2.0	121	81	60	48	40	35	30	187	29%	56%	100%	237	19%	38%	98%	354	8%	17%	90%	438	5%	10%	79%	SR110-025	40287-025	
	0.99	3.0	148	99	74	59	49	42	37	179	30%	58%	100%	218	24%	44%	98%	311	12%	24%	94%	387	7%	14%	87%	MR110-025	40291-025	
	1.14	4.0	171	114	85	68	57	49	43	174	31%	60%	100%	204	27%	49%	98%	280	15%	28%	96%	351	9%	18%	91%	DR110-025	40286-025	
	1.27	5.0	191	127	96	76	64	55	48	169	31%	61%	100%	194	29%	52%	98%	257	17%	32%	97%	323	10%	20%	93%	50 Mesh - Red	40251-00	
	1.40	6.0	209	140	105	84	70	60	52	166	31%	62%	100%	185	31%	55%	98%	238	19%	35%	97%	301	11%	22%	95%	-	-	-
03	0.84	1.5	126	84	63	50	42	36	31	195	28%	52%	99%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-03	40281-03	
	0.97	2.0	145	97	73	58	48	41	36	185	31%	56%	99%	306	11%	23%	95%	399	6%	13%	86%	484	3%	8%	73%	SR110-03	40287-03	
	1.18	3.0	178	118	89	71	59	51	44	170	36%	61%	98%	272	16%	31%	96%	350	9%	18%	92%	432	5%	11%	82%	MR110-03	40291-03	
	1.37	4.0	205	137	103	82	68	59	51	160	39%	65%	97%	247	19%	36%	97%	315	11%	22%	94%	395	6%	13%	86%	DR110-03	40286-03	
	1.53	5.0	229	153	115	92	76	66	57	152	42%	68%	97%	228	21%	40%	98%	288	13%	26%	96%	367	7%	15%	89%	50 Mesh - Red	40251-00	
	1.68	6.0	251	168	126	101	84	72	63	146	44%	70%	96%	212	23%	44%	98%	266	14%	28%	96%	344	8%	17%	91%	-	-	-
04	1.12	1.5	168	112	84	67	56	48	42	237	19%	37%	97%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-04	40281-04	
	1.29	2.0	193	129	97	77	64	55	48	227	22%	41%	97%	317	11%	22%	94%	421	5%	11%	84%	514	3%	7%	68%	SR110-04	40287-04	
	1.58	3.0	237	158	118	95	79	68	59	211	25%	46%	96%	281	14%	29%	95%	365	7%	16%	90%	457	5%	10%	77%	MR110-04	40291-04	
	1.82	4.0	274	182	137	109	91	78	68	201	28%	50%	96%	256	17%	33%	96%	326	9%	20%	94%	417	6%	12%	82%	DR110-04	40286-04	
	2.04	5.0	306	204	153	122	102	87	76	192	29%	53%	95%	236	19%	37%	97%	296	11%	23%	95%	386	6%	14%	85%	50 Mesh - Red	40251-00	
	2.23	6.0	335	223	168	134	112	96	84	185	31%	55%	95%	220	21%	40%	97%	271	12%	25%	96%	360	7%	15%	87%	-	-	-
05	1.40	1.5	209	140	105	84	70	60	52	243	19%	37%	95%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-05	40281-05	
	1.61	2.0	242	161	121	97	81	69	60	228	22%	41%	95%	359	8%	17%	91%	491	3%	7%	71%	533	2%	5%	62%	SR110-05	40287-05	
	1.97	3.0	296	197	148	118	99	85	74	208	27%	47%	95%	312	12%	24%	94%	432	5%	11%	80%	495	3%	7%	69%	MR110-05	40291-05	
	2.28	4.0	342	228	171	137	114	98	85	195	30%	51%	95%	279	14%	29%	96%	391	6%	14%	84%	469	3%	8%	74%	DR110-05	40286-05	
	2.55	5.0	382	255	191	153	127	109	96	186	32%	54%	95%	253	17%	32%	97%	358	7%	16%	87%	448	4%	9%	77%	50 Mesh - Red	40251-00	
	2.79	6.0	419	279	209	168	140	120	105	179	34%	57%	95%	232	18%	35%	97%	332	8%	18%	89%	431	4%	9%	79%	-	-	-
06	1.68	1.5	251	168	126	101	84	72	63	278	15%	29%	94%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-06	40281-06	
	1.93	2.0	290	193	145	116	97	83	73	263	17%	33%	94%	421	6%	12%	83%	511	3%	7%	67%	569	2%	4%	56%	SR110-06	40287-06	
	2.37	3.0	355	237	178	142	118	102	89	242	21%	39%	95%	358	9%	19%	90%	464	4%	9%	76%	518	3%	6%	65%	MR110-06	40291-06	
	2.74	4.0	410	274	205	164	137	117	103	227	24%	43%	95%	314	12%	23%	93%	431	5%	11%	80%	482	3%	7%	71%	DR110-06	40286-06	
	3.06	5.0	459	306	229	183	153	131	115	216	26%	46%	95%	279	14%	27%	95%	405	5%	12%	84%	454	4%	8%	74%	50 Mesh - Red	40251-00	
	3.35	6.0	503	335	251	201	168	144	126	206	27%	48%	95%	251	15%	30%	96%	384	6%	13%	86%	432	4%	9%	77%	-	-	-

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

Extremely Fine
<60

Very Fine
60-105µ

Fine
106-235µ

Medium
236-340µ

Coarse
341-403µ

Very Coarse
404-502µ

Extremely Coarse
503-665µ

Ultra Coarse
>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® 110° 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.										ER110-XX TIP SERIES Recommended Pressure: 20-70 PSI			SR110-XX TIP SERIES Recommended Pressure: 20-100 PSI			MR110-XX TIP SERIES Recommended Pressure: 25-100 PSI			DR110-XX TIP SERIES Recommended Pressure: 30-100 PSI			SPRAY TIP PART #					
Tip Cap No.	Flow Rate L/min	BAR	Application Rate - Litres /Hectare @ 50CM @ Sprayer Speed - km/h (rounded)						VMD (Droplet Size in µ); %<141µ (Drift %); %<200µ (Drift %); %<600µ (Small Droplets)												Tip-Cap & Part No.						
			8	12	16	20	24	28	32	110° ER Series			110° SR Series			110° MR Series			110° DR Series			Tip-Cap	Part #				
															Strainer												
08	2.23	1.5	335	223	168	134	112	96	84	319	15%	27%	91%	-	-	-	-	-	-	-	-	-	-	-	ER110-08	40281-08	
	2.58	2.0	387	258	193	155	129	111	97	293	17%	31%	93%	458	6%	12%	66%	537	4%	8%	52%	620	3%	5%	40%	SR110-08	40287-08
	3.16	3.0	474	316	237	190	158	135	118	257	21%	37%	95%	396	8%	15%	76%	469	5%	11%	63%	556	4%	7%	49%	MR110-08	40291-08
	3.65	4.0	547	365	274	219	182	156	137	231	23%	41%	96%	351	10%	18%	81%	422	6%	12%	70%	511	4%	8%	54%	DR110-08	40286-08
	4.08	5.0	612	408	306	245	204	175	153	211	25%	45%	97%	317	11%	20%	85%	385	7%	14%	74%	476	5%	9%	58%		
	4.47	6.0	670	447	335	268	223	191	168	194	27%	47%	97%	289	12%	21%	87%	355	8%	15%	77%	448	5%	10%	61%		
10	2.79	1.5	419	279	209	168	140	120	105	354	11%	25%	89%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-10	40281-10
	3.22	2.0	484	322	242	193	161	138	121	328	14%	29%	90%	476	6%	11%	61%	529	4%	7%	52%	676	3%	4%	32%	SR110-10	40287-10
	3.95	3.0	592	395	296	237	197	169	148	290	17%	34%	92%	410	8%	14%	72%	464	5%	10%	61%	624	3%	6%	38%	MR110-10	40291-10
	4.56	4.0	684	456	342	274	228	195	171	264	20%	37%	93%	363	9%	17%	78%	418	6%	11%	67%	587	4%	7%	42%	DR110-10	40286-10
	5.10	5.0	765	510	382	306	255	218	191	243	22%	40%	94%	327	10%	19%	82%	383	7%	13%	71%	559	5%	7%	45%		
	5.58	6.0	838	558	419	335	279	239	209	226	24%	42%	95%	298	11%	20%	84%	354	7%	14%	73%	535	5%	8%	48%		
12.5	3.49	1.5	523	349	262	209	174	150	131	413	9%	17%	71%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-125	40281-125
	4.03	2.0	604	403	302	242	201	173	151	387	10%	18%	76%	476	5%	10%	61%	623	4%	5%	39%	651	3%	6%	34%	SR110-125	40287-125
	4.94	3.0	740	494	370	296	247	212	185	349	12%	20%	81%	409	6%	13%	71%	558	5%	8%	49%	607	4%	7%	40%	MR110-125	40291-125
	5.70	4.0	855	570	427	342	285	244	214	323	13%	21%	84%	361	7%	16%	77%	511	5%	9%	55%	575	5%	8%	44%	DR110-125	40286-125
	6.37	5.0	956	637	478	382	319	273	239	302	14%	22%	86%	323	8%	18%	81%	475	6%	10%	59%	551	5%	9%	47%		
	6.98	6.0	1047	698	523	419	349	299	262	285	14%	22%	88%	293	9%	19%	83%	446	6%	11%	62%	531	6%	9%	49%		
15	4.19	1.5	628	419	314	251	209	179	157	429	9%	16%	66%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-15	40281-15
	4.84	2.0	725	484	363	290	242	207	181	401	10%	18%	71%	543	5%	8%	50%	612	4%	7%	40%	663	3%	5%	39%	SR110-15	40287-15
	5.92	3.0	888	592	444	355	296	254	222	361	12%	20%	77%	483	6%	10%	60%	564	5%	8%	47%	614	4%	6%	47%	MR110-15	40291-15
	6.84	4.0	1026	684	513	410	342	293	256	333	14%	22%	80%	441	7%	12%	67%	530	5%	9%	51%	579	4%	7%	52%	DR110-15	40286-15
	7.65	5.0	1147	765	573	459	382	328	287	311	15%	23%	83%	407	7%	13%	71%	504	5%	10%	54%	552	4%	8%	56%		
	8.38	6.0	1256	838	628	503	419	359	314	294	16%	24%	84%	380	8%	15%	74%	483	5%	10%	57%	530	5%	9%	59%		
20	5.58	1.5	838	558	419	335	279	239	209	488	7%	11%	57%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-20	40281-20
	6.45	2.0	967	645	484	387	322	276	242	457	8%	13%	63%	522	6%	10%	54%	598	4%	7%	42%	-	-	-	-	SR110-20	40287-20
	7.90	3.0	1184	790	592	474	395	338	296	413	9%	15%	70%	467	7%	12%	64%	547	5%	9%	49%	-	-	-	-	MR110-20	40291-20
	9.12	4.0	1368	912	684	547	456	391	342	383	10%	17%	74%	428	8%	14%	70%	511	6%	10%	54%	-	-	-	-		
	10.19	5.0	1529	1019	765	612	510	437	382	359	10%	18%	76%	398	8%	15%	74%	483	6%	11%	57%	-	-	-	-		
	11.17	6.0	1675	1117	838	670	558	479	419	339	11%	19%	79%	373	9%	16%	77%	460	7%	12%	60%	-	-	-	-		
25	6.98	1.5	1047	698	523	419	349	299	262	487	6%	11%	56%	-	-	-	-	-	-	-	-	-	-	-	-	ER110-25	40281-25
	8.06	2.0	1209	806	604	484	403	345	302	456	7%	12%	64%	507	6%	10%	55%	-	-	-	-	-	-	-	-	SR110-25	40287-25
	9.87	3.0	1481	987	740	592	494	423	370	414	8%	13%	72%	458	7%	12%	64%	-	-	-	-	-	-	-	-		
	11.40	4.0	1710	1140	855	684	570	488	427	383	8%	14%	77%	423	8%	13%	68%	-	-	-	-	-	-	-	-		
	12.74	5.0	1911	1274	956	765	637	546	478	360	8%	15%	80%	395	8%	15%	72%	-	-	-	-	-	-	-	-		
	13.96	6.0	2094	1396	1047	838	698	598	523	341	9%	16%	82%	373	9%	16%	74%	-	-	-	-	-	-	-	-		

*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
<60

Very Fine
60-105µ

Fine
106-235µ

Medium
236-340µ

Coarse
341-403µ

Very Coarse
404-502µ

Extremely Coarse
503-665µ

Ultra Coarse
>665µ

Combo-Jet® Adapters

Square Lug Compatibility

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

