



HYPRO[®] ULTRA LO-DRIFT[™] SPRAY TIPS

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Growing Success

Thousands of professional applicators and growers have found Ultra Lo-Drift™ tips to be a uniquely versatile tool for maintaining healthy, successful plants. ULDs are not only their first choice for reducing drift, but also for many other types of accurate, coverage-sensitive applications. Applicators are achieving higher levels of success using ULD tips for:



1. **Effective, low-drift herbicide application**
2. **Disease and insect control**
3. **Exceptional coverage using twin sprays**
4. **Directed sprays**

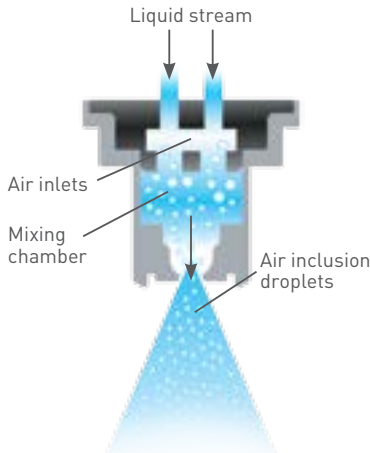


First Impressions

When you first spray with an Ultra Lo-Drift tip, you will notice that it has a thick pattern, measuring nearly 60 degrees front-to-back. The pattern and spray uniformity across the boom is excellent, consistently beating other venturi nozzles. The ULD's pattern thickness and uniformity are the benefits of the patented Dual Air Eduction design.

How the ULD Works

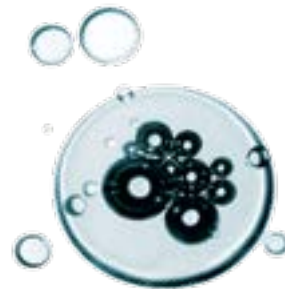
To fully understand why the Ultra Lo-Drift is such a unique spray tip, consider how it works. Liquid is metered into a ULD tip through dual inlets, into a set of dual venturi where air is drawn into the spray tip through the side air inlets. The dual streams vigorously mix the air and the spray in the tip just before the spray is ejected. The total effect is fewer fine droplets and less drift. Air that is trapped in the droplets create bubbles that help with droplet deposition and coverage when they impact the leaves.



The patented "Dual Air Eduction" system creates a thick pattern and allows for a compact and durable tip.



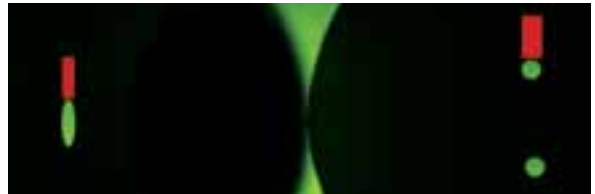
Side view: The unique thick pattern of air-filled and drift-resistant droplets from an Ultra Lo-Drift™ tip promotes full coverage.



Air in a droplet can improve coverage when the droplet lands and "pops."

Dual Air Eduction, Dual Benefits

The patented Dual Air Eduction design provides unique benefits to ULD tip users. It allows more air intake and mixing in a shorter tip design, making ULD tips the shortest and most break-resistant venturi tips available. Inside the tip, the dual streams vigorously interact in the mixing chamber, not only incorporating air in the spray, but also creating a spray pattern that expands in all directions upon leaving the tip. This gives ULD tips a uniquely thick spray pattern and an effective droplet size that many applicators prefer for coverage-critical and reduced-drift applications. As a side benefit, since the dual inlets are round, they have a wide-open passage that means applicators can use the same standard filtration as with any other fan pattern tip.



Filtration needs are set by the narrowest passage in a tip. The round dual inlets on a ULD tip (right) are wider than the slotted orifice of a similar extended-range tip (left), so standard filtration is more than adequate for ULD tips.

ULD 120° - Ultra Lo-Drift - Dual Air Eduction

	15 PSI	20 PSI	30 PSI	40 PSI	50 PSI	60 PSI	70 PSI	80 PSI	90 PSI	100 PSI	115 PSI
ULD120-015	VC	C	C	C	C	M	M	M	M	F	F
ULD120-02	VC	VC	C	C	C	C	M	M	M	M	F
ULD120-025	VC	VC	C	C	C	C	M	M	M	M	M
ULD120-03	VC	VC	VC	C	C	C	C	M	M	M	M
ULD120-04	VC	VC	VC	C	C	C	C	M	M	M	M
ULD120-05	XC	XC	VC	VC	VC	C	C	C	C	M	M
ULD120-06	XC	XC	XC	VC	VC	VC	C	C	C	C	M
ULD120-08	XC	XC	XC	VC	VC	VC	C	C	C	C	M

In addition to applying the right volume of spray, the most important key to successful applications is to use an effective droplet size. ULD tips produce versatile droplet sizes over a very wide range of pressures and flows.

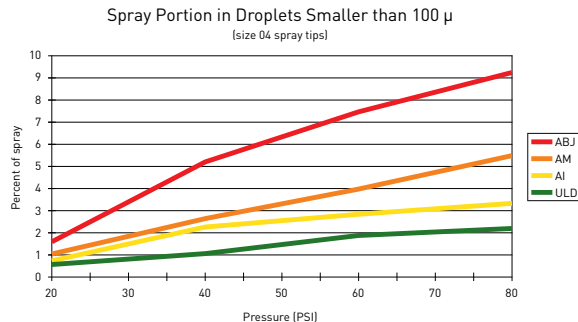
Using ULDs for Drift Reduction

A clear strength of ULD tips is their ability to help you reduce drift by making fewer fine droplets. Wind does not have as much of an influence over large droplets. Ultra Lo-Drift tips are engineered to balance the requirements of less drift against good coverage. Droplets that are too small will drift and be wasted, but droplets that are too large provide fewer opportunities for coverage. Extremes in droplet size can cause drift or poor pest control. In contrast, a well-selected spray effectively balances the requirements. Applicators seeking to primarily minimize drift should use ULD spray tips at pressures that create coarse or larger sprays.

The chart below illustrates how Ultra Lo-Drift spray tips use a highly effective method for reducing drift potential. They produce far fewer small droplets, yet maintain a droplet size that can be used for applications where coverage is important. Droplets that are very small can drift great distances, and when they drift, they provide no benefit to target coverage. The information in the chart was collected using a VisiSizer™ Particle Droplet Image Analysis system at Hypro's testing facilities in Cambridge, England, and compares several air induction spray tip technologies.



Drift reduction and coverage are two reasons ULD tips are standard on many golf course sprayers.



ULD tips (bottom) reduce drift significantly when compared to other nozzles on the market (top).



ULDs for Disease and Insect Control

A generation ago, hollow cone tips were commonly used to spray for plant diseases and insects. Today, applicators are making the switch to a more efficient method using ULD tips. Neighbors and workers are wary of spray drift, and spray products are too costly to risk losing them. Drift that was once tolerated is no longer acceptable. ULD tips are uniquely equipped to deliver effective sprays that stay on target.

While fine and very fine sprays create lots of small droplets, many of the tiniest droplets may not have the momentum to reach the target and deposit in dense plant canopies. However, changing to a more balanced medium spray will get more spray to the target while reducing drift near sensitive areas, streams, buffer zones, and no-spray zones.

Applicators applying fungicides and insecticides requiring medium sprays can use ULD tips at higher pressures (see droplet size data on page 3).



Droplet Size †	Spray Quality (for illustration only) †	Drift distance (ft) in 8 mph wind *	Droplets created per square inch of leaf **
100 µ	Very Fine	24.2 ft	1966
375 µ	Coarse	0.3 ft	37
800 µ	Extremely Coarse	0.1 ft	4

* Drift distances calculated with DriftSim software using 40% RH, 80° F, 8 mph wind, 2 ft height, and 60 fps

** Theoretical using uniform droplet size, 10 GPA, and leaf area index of 6

† Droplet sizes given in microns are for illustration. No nozzle is capable of producing a single droplet size, and every spray pattern is comprised of a range of droplet sizes.



Twin Fan Sprays

Spray deposits can be enhanced by using forward or rearward- angled sprays. A forward angle enhances coverage on vertical targets such as stems, while a rearward angle encourages coverage on broadleaves.

Old technology twin spray tips make too fine of a spray, and adapters used to create twin sprays from single tips are often large and easy to break. Now, two ULD tips in a TwinCap tip holder can provide more control over droplet size, enhance coverage, and limit drift in a compact assembly. It also allows for faster application speeds, because you can choose two tips that will create an optimum spray, while delivering the flow and spray volume needed. Different sized tips can be combined to create flow rates that are not available in a single tip, such as 035 by selecting one 015 and one 02 tip.

Completely assembled TwinCap tip holders equipped with two ULD tips are available as shown in the following charts. Users can also customize flow rates by matching combinations of two different size tips.

Gallons per Acre—20" Spacing

Tip	Droplet Size	PSI	Flow (GPM)	MPH																
				4	5	6	7	8	10	12	14	16	18	20						
TC2ULD120-015	VC	15	0.18	13.4	10.7	8.9	7.6	6.7	5.3	4.5	3.8	3.3	3.0	2.7						
	VC	20	0.21	15.6	12.5	10.4	8.9	7.8	6.2	5.2	4.5	3.9	3.5	3.1						
	C	30	0.26	19.3	15.4	12.9	11.0	9.7	7.7	6.4	5.5	4.8	4.3	3.9						
	C	40	0.30	22	17.8	14.9	12.7	11.1	8.9	7.4	6.4	5.6	5.0	4.5						
	C	50	0.34	25	20.2	16.8	14.4	12.6	10.1	8.4	7.2	6.3	5.6	5.0						
	C	60	0.37	27	22	18.3	15.7	13.7	11.0	9.2	7.8	6.9	6.1	5.5						
	M	70	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9						
	M	80	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2						
	M	90	0.45	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4	7.4	6.7						
	F	100	0.47	35	28	23	20	17.4	14.0	11.6	10.0	8.7	7.8	7.0						
F	115	0.51	38	30	25	22	18.9	15.1	12.6	10.8	9.5	8.4	7.6							
TC2ULD120-02	VC	15	0.24	17.8	14.3	11.9	10.2	8.9	7.1	5.9	5.1	4.5	4.0	3.6						
	VC	20	0.28	21	16.6	13.9	11.9	10.4	8.3	6.9	5.9	5.2	4.6	4.2						
	C	30	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2						
	C	40	0.40	30	24	19.8	17.0	14.9	11.9	9.9	8.5	7.4	6.6	5.9						
	C	50	0.45	33	27	22	19.1	16.7	13.4	11.1	9.5	8.4	7.4	6.7						
	C	60	0.49	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3						
	M	70	0.53	39	31	26	22	19.7	15.7	13.1	11.2	9.8	8.7	7.9						
	M	80	0.57	42	34	28	24	21	16.9	14.1	12.1	10.6	9.4	8.5						
	M	90	0.60	45	36	30	25	22	17.8	14.9	12.7	11.1	9.9	8.9						
	F	100	0.63	47	37	31	27	23	18.7	15.6	13.4	11.7	10.4	9.4						
F	115	0.68	50	40	34	29	25	20	16.8	14.4	12.6	11.2	10.1							



Side view: Two ULD tips placed in a TwinCap tip holder will create a spray zone that is nearly 120 degrees front to back and 120 degrees side to side.

Tip Size	Droplet Size	PSI	Flow (GPM)	MPH																
				4	5	6	7	8	10	12	14	16	18	20						
TC2ULD120-025	VC	15	0.31	23	18.4	15.3	13.2	11.5	9.2	7.7	6.6	5.8	5.1	4.6						
	VC	20	0.35	26	21	17.3	14.9	13.0	10.4	8.7	7.4	6.5	5.8	5.2						
	C	30	0.43	32	26	21	18.2	16.0	12.8	10.6	9.1	8.0	7.1	6.4						
	C	40	0.50	37	30	25	21	18.6	14.9	12.4	10.6	9.3	8.3	7.4						
	C	50	0.56	42	33	28	24	21	16.6	13.9	11.9	10.4	9.2	8.3						
	C	60	0.61	45	36	30	26	23	18.1	15.1	12.9	11.3	10.1	9.1						
	M	70	0.66	49	39	33	28	25	19.6	16.3	14.0	12.3	10.9	9.8						
	M	80	0.71	53	42	35	30	26	21	17.6	15.1	13.2	11.7	10.5						
	M	90	0.75	56	45	37	32	28	22	18.6	15.9	13.9	12.4	11.1						
	M	100	0.79	59	47	39	34	29	23	19.6	16.8	14.7	13.0	11.7						
M	115	0.85	63	50	42	36	32	25	21	18.0	15.8	14.0	12.6							
TC2ULD120-03	VC	15	0.37	27	22	18.3	15.7	13.7	11.0	9.2	7.8	6.9	6.1	5.5						
	VC	20	0.42	31	25	21	17.8	15.6	12.5	10.4	8.9	7.8	6.9	6.2						
	VC	30	0.52	39	31	26	22	19.3	15.4	12.9	11.0	9.7	8.6	7.7						
	C	40	0.60	45	36	30	25	22	17.9	14.9	12.7	11.1	9.9	8.9						
	C	50	0.67	50	40	33	28	25	19.8	16.6	14.2	12.4	11.1	9.9						
	C	60	0.73	54	43	36	31	27	21.2	18.1	15.5	13.6	12.0	10.8						
	C	70	0.79	59	47	39	34	29	23	19.6	16.8	14.7	13.0	11.7						
	M	80	0.85	63	50	42	36	32	25	21	18.0	15.8	14.0	12.6						
	M	90	0.90	67	53	45	38	33	27	22	19.1	16.7	14.9	13.4						
	M	100	0.95	71	56	47	40	35	28	24	20	17.6	15.7	14.1						
M	115	1.02	76	61	50	43	38	30	25	22	18.9	16.8	15.1							
TC2ULD120-04	VC	15	0.49	36	29	24	21	18.2	14.6	12.1	10.4	9.1	8.1	7.3						
	VC	20	0.57	42	34	28	24	21	16.9	14.1	12.1	10.6	9.4	8.5						
	VC	30	0.69	51	41	34	29	26	20	17.1	14.6	12.8	11.4	10.2						
	C	40	0.80	59	48	40	34	30	24	19.8	17.0	14.9	13.2	11.9						
	C	50	0.89	66	53	44	38	33	26	22	18.9	16.5	14.7	13.2						
	C	60	0.98	73	58	49	42	36	29	24	21	18.2	16.2	14.6						
	C	70	1.06	79	63	52	45	39	31	26	22	19.7	17.5	15.7						
	M	80	1.13	84	67	56	48	42	34	28	24	21	18.6	16.8						
	M	90	1.20	89	71	59	51	45	36	30	25	22	19.8	17.8						
	M	100	1.26	94	75	62	53	47	37	31	27	23	21	18.7						
M	115	1.36	101	81	67	58	50	40	34	29	25	22	20							

Directed Sprays

The compact size and unique spray characteristics of ULD tips allow them to be used where other venturi tips cannot. A prime example of this is directed sprays. The low profile of ULD tips prevents breakage, while its spray provides excellent coverage and penetration. For the ultimate in directed spraying, a TwinCap plus two ULD tips can be placed directly over the row and a single ULD tip can be mounted on a swivel on either side of the row to completely surround the plant. ULD tips are also excellent for vertical booms and wrap-around booms in many horticultural applications.



Hollow cones (left) and ULDs in TwinCap tip holders (right).

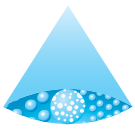
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Ultra Lo-Drift 120°



The ULD – Ultra Lo-Drift is the ideal spray tip for use where drift reduction is paramount. The tip produces large air-filled droplets, which cut drift dramatically compared with a standard fan and conventional low-drift spray tips. Ideal for use with pre-emergence and broad spectrum products.

- Creates air-filled droplets which significantly reduce spray drift
- Wide spray angle (120°) enables boom height to be lowered to further decrease drift
- Small, compact size reduces the chances of accidental breakage
- FastCap complete includes tip, cap, gasket and integrated strainers

US Units

Tip Size	Droplet Size	Pressure (PSI)	Flow Rate (GPM)	Gallons per Acre 20 inch nozzle spacing								GAL/1000 ft ²				
				MPH								20 inch nozzle spacing				
				4	5	6	8	10	12	15	20	2	3	4	5	
015	UC	15	0.09	6.7	5.3	4.5	3.3	2.7	2.2	1.8	1.3	0.31	0.20	0.15	0.12	
	UC	20	0.11	8.2	6.5	5.4	4.1	3.3	2.7	2.2	1.6	0.38	0.25	0.19	0.15	
	XC	30	0.13	9.7	7.7	6.4	4.8	3.9	3.2	2.6	1.9	0.44	0.30	0.22	0.18	
	VC	40	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20	
	VC	50	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
	C	60	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25	
	C	70	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27	
	C	80	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29	
	M	90	0.23	17.1	13.7	11.4	8.5	6.8	5.7	4.6	3.4	0.78	0.52	0.39	0.31	
	M	100	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33	
	M	115	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	
02	UC	15	0.12	8.9	7.1	5.9	4.5	3.6	3.0	2.4	1.8	0.41	0.27	0.20	0.16	
	UC	20	0.14	10.4	8.3	6.9	5.2	4.2	3.5	2.8	2.1	0.48	0.32	0.24	0.19	
	XC	30	0.17	12.6	10.1	8.4	6.3	5.0	4.2	3.4	2.5	0.58	0.39	0.29	0.23	
	VC	40	0.20	14.9	11.9	9.9	7.4	5.9	5.0	4.0	3.0	0.68	0.45	0.34	0.27	
	VC	50	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30	
	C	60	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33	
	C	70	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35	
	M	80	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38	
	M	90	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41	
	M	100	0.32	23.8	19.0	15.8	11.9	9.5	7.9	6.3	4.8	1.09	0.73	0.55	0.44	
	M	115	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46	
025	UC	15	0.15	11.1	8.9	7.4	5.6	4.5	3.7	3.0	2.2	0.51	0.34	0.26	0.20	
	UC	20	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25	
	XC	30	0.22	16.3	13.1	10.9	8.2	6.5	5.4	4.4	3.3	0.75	0.50	0.38	0.30	
	C	40	0.25	18.6	14.9	12.4	9.3	7.4	6.2	5.0	3.7	0.85	0.57	0.43	0.34	
	C	50	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38	
	C	60	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42	
	M	70	0.33	24.5	19.6	16.3	12.3	9.8	8.2	6.5	4.9	1.13	0.75	0.56	0.45	
	M	80	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48	
	M	90	0.38	28.2	22.6	18.8	14.1	11.3	9.4	7.5	5.6	1.30	0.86	0.65	0.52	
	M	100	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55	
	M	115	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57	
03	UC	15	0.18	13.4	10.7	8.9	6.7	5.3	4.5	3.6	2.7	0.61	0.41	0.31	0.25	
	UC	20	0.21	15.6	12.5	10.4	7.8	6.2	5.2	4.2	3.1	0.72	0.48	0.36	0.29	
	XC	30	0.26	19.3	15.4	12.9	9.7	7.7	6.4	5.1	3.9	0.89	0.59	0.44	0.35	
	C	40	0.30	22.3	17.8	14.9	11.1	8.9	7.4	5.9	4.5	1.02	0.68	0.51	0.41	
	C	50	0.34	25.2	20.2	16.8	12.6	10.1	8.4	6.7	5.0	1.16	0.77	0.58	0.46	
	C	60	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50	
	M	70	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55	
	M	80	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57	
	M	90	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61	
	M	100	0.47	34.9	27.9	23.3	17.4	14.0	11.6	9.3	7.0	1.60	1.07	0.80	0.64	
	M	115	0.51	37.9	30.3	25.2	18.9	15.1	12.6	10.1	7.6	1.74	1.16	0.87	0.70	
04	UC	15	0.24	17.8	14.3	11.9	8.9	7.1	5.9	4.8	3.6	0.82	0.55	0.41	0.33	
	UC	20	0.28	20.8	16.6	13.9	10.4	8.3	6.9	5.5	4.2	0.95	0.64	0.48	0.38	
	UC	30	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48	
	XC	40	0.40	29.7	23.8	19.8	14.9	11.9	9.9	7.9	5.9	1.36	0.91	0.68	0.55	
	XC	50	0.45	33.4	26.7	22.3	16.7	13.4	11.1	8.9	6.7	1.53	1.02	0.77	0.61	
	XC	60	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67	
	VC	70	0.53	39.4	31.5	26.2	19.7	15.7	13.1	10.5	7.9	1.81	1.20	0.90	0.72	
	VC	80	0.57	42.3	33.9	28.2	21.2	16.9	14.1	11.3	8.5	1.94	1.30	0.97	0.78	
	VC	90	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82	
	C	100	0.63	46.8	37.4	31.2	23.4	18.7	15.6	12.5	9.4	2.15	1.43	1.07	0.86	
	C	115	0.68	50.5	40.4	33.7	25.2	20.2	16.8	13.5	10.1	2.32	1.55	1.16	0.93	
05	UC	15	0.31	23.0	18.4	15.3	11.5	9.2	7.7	6.1	4.6	1.06	0.70	0.53	0.42	
	UC	20	0.35	26.0	20.8	17.3	13.0	10.4	8.7	6.9	5.2	1.19	0.80	0.60	0.48	
	UC	30	0.43	31.9	25.5	21.3	16.0	12.8	10.6	8.5	6.4	1.47	0.98	0.73	0.59	
	XC	40	0.50	37.1	29.7	24.8	18.6	14.9	12.4	9.9	7.4	1.71	1.14	0.85	0.68	
	XC	50	0.56	41.6	33.3	27.7	20.8	16.6	13.9	11.1	8.3	1.91	1.27	0.95	0.76	
	VC	60	0.61	45.3	36.2	30.2	22.6	18.1	15.1	12.1	9.1	2.08	1.39	1.04	0.83	
	VC	70	0.66	49.0	39.2	32.7	24.5	19.6	16.3	13.1	9.8	2.25	1.50	1.13	0.90	
	VC	80	0.71	52.7	42.2	35.1	26.4	21.1	17.6	14.1	10.5	2.42	1.61	1.21	0.97	
	VC	90	0.75	55.7	44.6	37.1	27.8	22.3	18.6	14.9	11.1	2.56	1.71	1.28	1.02	
	C	100	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08	
	C	115	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16	
06	UC	15	0.37	27.5	22.0	18.3	13.7	11.0	9.2	7.3	5.5	1.26	0.84	0.63	0.50	
	UC	20	0.42	31.2	24.9	20.8	15.6	12.5	10.4	8.3	6.2	1.43	0.95	0.72	0.57	
	UC	30	0.52	36.6	30.9	25.7	19.3	15.4	12.9	10.3	7.7	1.77	1.18	0.89	0.71	
	XC	40	0.60	44.6	35.6	29.7	22.3	17.8	14.9	11.9	8.9	2.05	1.36	1.02	0.82	
	XC	50	0.67	49.7	39.8	33.2	24.9	19.9	16.6	13.3	9.9	2.28	1.52	1.14	0.91	
	VC	60	0.73	54.2	43.4	36.1	27.1	21.7	18.1	14.5	10.8	2.49	1.66	1.24	1.00	
	VC	70	0.79	58.7	46.9	39.1	29.3	23.5	19.6	15.6	11.7	2.69	1.80	1.35	1.08	
	C	80	0.85	63.1	50.5	42.1	31.6	25.2	21.0	16.8	12.6	2.90	1.93	1.45	1.16	
	C	90	0.90	66.8	53.5	44.6	33.4	26.7	22.3	17.8	13.4	3.07	2.05	1.53	1.23	
	M	100	0.95	70.5	56.4	47.0	35.3	28.2	23.5	18.8	14.1	3.24	2.16	1.62	1.30	
	M	115	1.02	75.7	60.6	50.5	37.9	30.3	25.2	20.2	15.1	3.48	2.32	1.74	1.39	
08	UC	15	0.49	36.4	29.1	24.3	18.2	14.6	12.1	9.7	7.3	1.67	1.11	0.84	0.67	



Maximum drift control in a 120° wide spray pattern for even coverage in broadcast applications



Unique 60° thick spray pattern for a wider coverage area. 120° wide by 60° thick pattern.



See www.hypospraytips.com/certifications for the latest drift reduction standard information.

Metric Units

Tip Size	Droplet Size	Pressure (BAR)	Flow Rate (LPM)	Application Rate L/Ha - 50cm spacing KM/H						Drift Reduction Standards		
				7	8	10	12	15	20		25	30
015	UC	1	0,35	60	53	42	35	28	21	17	14	JKI
	UC	1,5	0,42	72	63	50	42	34	25	20	17	
	XC	2	0,49	84	74	59	49	39	29	24	20	
	VC	3	0,60	103	90	72	60	48	36	29	24	
	C	4	0,69	118	104	83	69	55	41	33	28	
	C	5	0,77	132	116	92	77	62	46	37	31	
	M	6	0,85	146	128	102	85	68	51	41	34	
	M	7	0,92	158	138	110	92	74	55	44	37	
02	UC	1	0,46	79	69	55	46	37	28	22	18	JKI
	UC	1,5	0,57	98	86	68	57	46	34	27	23	
	XC	2	0,65	111	98	78	65	52	39	31	26	
	VC	3	0,80	137	120	96	80	64	48	38	32	
	C	4	0,92	158	138	110	92	74	55	44	37	
	M	5	1,03	177	155	124	103	82	62	49	41	
	M	6	1,13	194	170	136	113	90	68	54	45	
	M	7	1,22	209	183	146	122	98	73	59	49	
025	UC	1	0,58	99	87	70	58	46	35	28	23	JKI
	UC	1,5	0,71	122	107	85	71	57	43	34	28	
	XC	2	0,82	141	123	98	82	66	49	39	33	
	VC	3	1,00	171	150	120	100	80	60	48	40	
	C	4	1,15	197	173	138	115	92	69	55	46	
	M	5	1,29	221	194	155	129	103	77	62	52	
	M	6	1,41	242	212	169	141	113	85	68	56	
	M	7	1,53	262	230	184	153	122	92	73	61	
03	UC	1	0,69	118	104	83	69	55	41	33	28	50% Ref # G-1778
	UC	1,5	0,85	146	128	102	85	68	51	41	34	
	XC	2	0,98	168	147	118	98	78	59	47	39	
	VC	3	1,20	206	180	144	120	96	72	58	48	
	C	4	1,39	238	209	167	139	111	83	67	56	
	M	5	1,55	266	233	186	155	124	93	74	62	
	M	6	1,70	291	255	204	170	136	102	82	68	
	M	7	1,83	314	275	220	183	146	110	88	73	
04	UC	1	0,92	158	138	110	92	74	55	44	37	90% 2.5-3.0 BAR*
	UC	1,5	1,13	194	170	136	113	90	68	54	45	
	XC	2	1,31	225	197	157	131	105	79	63	52	
	VC	3	1,60	274	240	192	160	128	96	77	64	
	C	4	1,85	317	278	222	185	148	111	89	74	
	VC	5	2,07	355	311	248	207	166	124	99	83	
	M	6	2,26	387	339	271	226	181	136	108	90	
	M	7	2,44	418	366	293	244	195	146	117	98	
05	UC	1	1,15	197	173	138	115	92	69	55	46	90% 2.5-8.0 BAR Ref # G-1780
	UC	1,5	1,41	242	212	169	141	113	85	68	56	
	XC	2	1,63	279	245	196	163	130	98	78	65	
	VC	3	2,00	343	300	240	200	160	120	96	80	
	C	4	2,31	396	347	277	231	185	139	111	92	
	VC	5	2,58	442	387	310	258	206	155	124	103	
	M	6	2,83	485	425	340	283	226	170	136	113	
	M	7	3,06	525	459	367	306	245	184	147	122	
06	UC	1	1,39	238	209	167	139	111	83	67	56	JKI
	UC	1,5	1,70	291	255	204	170	136	102	82	68	
	XC	2	1,96	336	294	235	196	157	118	94	78	
	VC	3	2,40	411	360	288	240	192	144	115	96	
	C	4	2,77	475	416	332	277	222	166	133	111	
	M	5	3,10	531	465	372	310	248	186	149	124	
	M	6	3,39	581	509	407	339	271	203	163	136	
	M	7	3,67	629	551	440	367	294	220	176	147	
08	UC	1	1,85	317	278	222	185	148	111	89	74	JKI
	UC	1,5	2,26	387	339	271	226	181	136	108	90	
	XC	2	2,61	447	392	313	261	209	157	125	104	
	VC	3	3,20	549	480	384	320	256	192	154	128	
	C	4	3,70	634	555	444	370	296	222	178	148	
	M	5	4,13	708	620	496	413	330	248	198	165	
	M	6	4,53	777	680	544	453	362	272	217	181	
	M	7	4,89	838	734	587	489	391	293	235	196	

*Provisional, awaiting confirmation in official approvals lists.
Droplet size based on ASABE S572.1 standard

Features	
Common Use	Weeds
Pattern	Tapered Flat Fan
Technology	Air Induction
Material	Polyacetal
Spray Angle	120°
Pressure Range	15-115 PSI (1-8 BAR)
Configuration	Tips, FastCap Complete
Part Numbers	
Tips 120°	FastCap 120°
ULD120-015	FC-ULD120-015*
ULD120-02	FC-ULD120-02*
ULD120-025	FC-ULD120-025*
ULD120-03	FC-ULD120-03*
ULD120-04	FC-ULD120-04*
ULD120-05	FC-ULD120-05*
ULD120-06	FC-ULD120-06*
ULD120-08	FC-ULD120-08*
Replacement Strainers	
	75%
TS01-100	100 mesh strainer
TS01-50	50 mesh strainer
	90%
Replacement Cap Gasket	
1700-0255	

* FastCap version contain tip filters