

FERTILIZER

WIDE ANGLE
DRIFT REDUCING



Hi-Flow

Featured nozzle for pre-plant fertilizer or other high flow applications
PWM system compatible



The 140° pattern ensures unmatched uniformity across the spray boom.



Ideal for pre-emerge application of fertilizers.



Large droplets reduce the risk of drift during fertilizer or PWM systemic herbicide applications.

SIX STREAM



ESI Six Stream

Ideal for applying liquid fertilizer into small grain crops
PWM system compatible



Six stream pattern in a compact design to replace stream bars.



Advanced fertilizer nozzle capable of both pre-and post-emerge fertilizer applications.



Stream integrity reduces unwanted small droplets that cause unintentional plant damage.

HERBICIDE

DRIFT REDUCING,
DUAL AIR INDUCTION



Ultra Lo-Drift

Ideal for systemic herbicide applications where drift control is crucial - approved on new auxin herbicide labels



Wide, three dimensional pattern creates multiple angles for the spray to cover the target.



Ideal for pre-and post-emerge application of systemic herbicides.



Designed to eliminate driftable droplets, without sacrificing coverage.

EXTREMELY DRIFT REDUCING
DUAL AIR INDUCTION



Ultra Lo-Drift Max

Ideal for reducing drift up to 95% in a wide range of operating pressures. Specifically designed to be used with Dicamba and 2,4-D herbicide applications. - PWM system compatible



The 130° spray angle allows for optimal pattern overlap and coverage at lower boom heights.



Ideal for post-emerge Auxin-based herbicides such as Dicamba and 2, 4-D.



Maintains consistent droplet size across a wide range of operating pressure and performs extremely well when used on PWM systems.

POST-EMERGENCE PLANT HEALTH

INCLINED
ENHANCED COVERAGE



3D

Alternating incline, all-purpose nozzle (co-developed with Syngenta) for optimum spray coverage - PWM system compatible



Optimized spray angle and incline for coverage and uniformity across the boom.



Ideal for post-emerge plant health protectants. Also good for high coverage herbicide applications.



Droplet spectrum optimized for coverage, fewer droplets bounce off or drift away.

TWIN ENHANCED
COVERAGE, AIR INDUCTION



GuardianAIR Twin

Capable of balancing speed and efficiency, with twin patterns to cover front and back of targets



Air induced, twin pattern provides more uniform coverage over a wide operating range.



Ideal for high-coverage application of post-emerge plant health protectants.



Provides better coverage with more drops per gallon compared to other air-induced twin sprays.



SPRAY IT CALCULATOR
sprayit.pentair.com

Spray It App - Nozzle Selection Simplified

Select by Chemical - Choose from 500+ chemicals
Select by Application - Help sizing your nozzle based on your application
Search by Part Number or Name - Easily find information on a specific spray nozzle
Where to Buy Listings - Quickly find a nozzle distributor near you or buy online



Hypro Spray It Spray Nozzle Selection App



SPRAY APPLICATION CHART

SPRAY NOZZLE	USES	PRESSURE RANGE	PART NUMBER	DROPLET SIZE			
				PSI			
				30	40	60	80
Hi-Flow		20-80	HFI40-08	UC	UC	XC	XC
			HFI40-10	UC	UC	XC	XC
			HFI40-15	UC	UC	XC	XC
			HFI40-20	UC	UC	XC	XC
			HFI40-30	UC	UC	XC	XC
			HFI40-40	UC	UC	XC	XC
			HFI40-50	UC	UC	XC	XC
HFI40-60	UC	UC	XC	XC			
ESI		20-60	FC-ESI-11003	S	S	S	S
			FC-ESI-11004	S	S	S	S
			FC-ESI-11005	S	S	S	S
			FC-ESI-11006	S	S	S	S
			FC-ESI-11008	S	S	S	S
			FC-ESI-11010	S	S	S	S
			FC-ESI-11015	S	S	S	S
Ultra Lo-Drift		20-115	FC-ULD120-015	XC	VC	C	C
			FC-ULD120-02	XC	C	C	M
			FC-ULD120-025	XC	C	C	M
			FC-ULD120-03	XC	C	C	M
			FC-ULD120-04	UC	UC	XC	VC
			FC-ULD120-05	UC	XC	XC	VC
			FC-ULD120-06	UC	XC	VC	C
			FC-ULD120-08	XC	VC	C	C
3D		12-90	FC-3D100-015	F	F	F	F
			FC-3D100-02	F	F	F	F
			FC-3D100-025	M	M	F	F
			FC-3D100-03	M	M	F	F
			FC-3D100-035	M	M	M	F
			FC-3D100-04	M	M	M	M
			FC-3D100-05	C	M	M	M
			FC-3D100-06	C	M	M	M
FC-3D100-08	C	C	M	M			
GuardianAir Twin		30-115	GAT110-02	C	M	M	M
			GAT110-025	UC	VC	M	M
			GAT110-03	VC	C	M	M
			GAT110-035	XC	C	M	M
			GAT110-04	VC	C	M	M
			GAT110-05	VC	C	M	M
			GAT110-06	XC	C	C	M
			GAT110-08	VC	C	C	M
Ultra Lo-Drift Max		30-100	FC-ULD130-02	UC	UC	UC	XC
			FC-ULD130-025	UC	UC	UC	UC
			FC-ULD130-03	UC	UC	UC	XC
			FC-ULD130-04	UC	UC	UC	XC
			FC-ULD130-05	UC	UC	UC	UC
			FC-ULD130-06	UC	UC	UC	UC
FC-ULD130-08	UC	UC	UC	UC			

NOZZLE SIZE	PRESSURE (PSI)	FLOW RATE (GPM)	SPEED (MPH) - 20 INCH NOZZLE SPACING									
			GALLONS PER ACRE									
			5.0	7.5	10.0	12.5	15.0	17.0	20.0	22.5	25.0	
015	20	0.11	6.3	4.2	3.2	2.5	2.1	1.8	1.6	1.4	1.3	
	30	0.13	7.7	5.1	3.9	3.1	2.6	2.2	1.9	1.7	1.5	
	40	0.15	8.9	5.9	4.5	3.6	3.0	2.5	2.2	2.0	1.8	
	50	0.17	10.0	6.6	5.0	4.0	3.3	2.8	2.5	2.2	2.0	
	60	0.18	10.9	7.3	5.5	4.4	3.6	3.1	2.7	2.4	2.2	
	70	0.20	11.8	7.9	5.9	4.7	3.9	3.4	2.9	2.6	2.4	
	80	0.21	12.6	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5	
	90	0.23	13.4	8.9	6.7	5.3	4.5	3.8	3.3	3.0	2.7	
	02	20	0.14	8.4	5.6	4.2	3.4	2.8	2.4	2.1	1.9	1.7
30		0.17	10.3	6.9	5.1	4.1	3.4	2.9	2.6	2.3	2.1	
40		0.20	11.9	7.9	5.9	4.8	4.0	3.4	3.0	2.6	2.4	
50		0.22	13.3	8.9	6.6	5.3	4.4	3.8	3.3	3.0	2.7	
60		0.24	14.5	9.7	7.3	5.8	4.8	4.2	3.6	3.2	2.9	
70		0.26	15.7	10.5	7.9	6.3	5.2	4.5	3.9	3.5	3.1	
80		0.28	16.8	11.2	8.4	6.7	5.6	4.8	4.2	3.7	3.4	
90		0.30	17.8	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6	
025		20	0.18	10.5	7.0	5.3	4.2	3.5	3.0	2.6	2.3	2.1
	30	0.22	12.9	8.6	6.4	5.1	4.3	3.7	3.2	2.9	2.6	
	40	0.25	14.9	9.9	7.4	5.9	5.0	4.2	3.7	3.3	3.0	
	50	0.28	16.6	11.1	8.3	6.6	5.5	4.7	4.2	3.7	3.3	
	60	0.31	18.2	12.1	9.1	7.3	6.1	5.2	4.5	4.0	3.6	
	70	0.33	19.6	13.1	9.8	7.9	6.5	5.6	4.9	4.4	3.9	
	80	0.35	21.0	14.0	10.5	8.4	7.0	6.0	5.3	4.7	4.2	
	90	0.38	22.3	14.9	11.1	8.9	7.4	6.4	5.6	5.0	4.5	
	03	20	0.21	12.6	8.4	6.3	5.0	4.2	3.6	3.2	2.8	2.5
30		0.26	15.4	10.3	7.7	6.2	5.1	4.4	3.9	3.4	3.1	
40		0.30	17.8	11.9	8.9	7.1	5.9	5.1	4.5	4.0	3.6	
50		0.34	19.9	13.3	10.0	8.0	6.6	5.7	5.0	4.4	4.0	
60		0.37	21.8	14.5	10.9	8.7	7.3	6.2	5.5	4.8	4.4	
70		0.40	23.6	15.7	11.8	9.4	7.9	6.7	5.9	5.2	4.7	
80		0.42	-	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0	
90		0.45	-	17.8	13.4	10.7	8.9	7.6	6.7	5.9	5.3	
035		20	0.25	14.7	9.8	7.6	7.4	5.9	4.9	3.7	3.3	2.9
	30	0.30	18.0	12.0	9.0	7.2	6.0	4.5	4.2	4.0	3.6	
	40	0.35	20.8	13.9	10.4	8.3	6.9	5.2	5.1	4.6	4.2	
	50	0.39	23.2	15.5	11.6	9.3	7.7	5.9	5.8	5.2	4.6	
	60	0.43	25.5	17.0	12.7	10.2	8.5	6.6	6.4	5.7	5.1	
	70	0.46	27.5	18.3	13.8	11.0	9.2	7.3	6.9	6.1	5.5	
	80	0.49	29.4	19.6	14.7	11.8	9.8	7.9	7.4	6.5	5.9	
	90	0.53	-	20.8	15.6	12.5	10.4	8.4	7.8	6.9	6.2	

NOZZLE SIZE	PRESSURE (PSI)	FLOW RATE (GPM)	SPEED (MPH) - 20 INCH NOZZLE SPACING									
			GALLONS PER ACRE									
			5.0	7.5	10.0	12.5	15.0	17.0	20.0	22.5	25.0	
04	20	0.28	22.4	14.9	11.2	9.0	7.5	6.4	5.6	5.0	4.5	
	30	0.35	-	18.3	13.7	11.0	9.1	7.8	6.9	6.1	5.5	
	40	0.40	-	21.1	15.8	12.7	10.6	9.1	7.9	7.0	6.3	
	50	0.45	-	23.6	17.7	14.2	11.8	10.1	8.9	7.9	7.1	
	60	0.49	-	-	19.4	15.5	12.9	11.1	9.7	8.6	7.8	
	70	0.53	-	-	21.0	16.8	14.0	12.0	10.5	9.3	8.4	
	80	0.57	-	-	22.4	17.9	14.9	12.8	11.2	10.0	9.0	
	90	0.60	-	-	23.8	19.0	15.8	13.6	11.9	10.6	9.5	
	05	20	0.35	21.0	14.0	10.5	8.4	7.0	6.0	5.3	4.7	4.2
30		0.43	-	17.1	12.9	10.3	8.6	7.3	6.4	5.7	5.1	
40		0.50	-	19.8	14.9	11.9	9.9	8.5	7.4	6.6	5.9	
50		0.56	-	22.1	16.6	13.3	11.1	9.5	8.3	7.4	6.6	
60		0.61	-	24.2	18.2	14.5	12.1	10.4	9.1	8.1	7.3	
70		0.66	-	-	19.6	15.7	13.1	11.2	9.8	8.7	7.9	
80		0.71	-	-	21.0	16.8	14.0	12.0	10.5	9.3	8.4	
90		0.75	-	-	22.3	17.8	14.9	12.7	11.1	9.9	8.9	
06		20	0.42	-	16.8	12.6	10.1	8.4	7.2	6.3	5.6	5.0
	30	0.52	-	20.6	15.4	12.3	10.3	8.8	7.7	6.9	6.2	
	40	0.60	-	23.8	17.8	14.3	11.9	10.2	8.9	7.9	7.1	
	50	0.67	-	-	19.9	15.9	13.3	11.4	10.0	8.9	8.0	
	60	0.73	-	-	21.8	17.5	14.5	12.5	10.9	9.7	8.7	
	70	0.79	-	-	23.6	18.9	15.7	13.5	11.8	10.5	9.4	
	80	0.85	-	-	20.2	16.8	14.4	12.6	11.2	10.1		
	90	0.90	-	-	21.4	17.8	15.3	13.4	11.9	10.7		
	08	20	0.57	-	22.4	16.8	13.4	11.2	9.6	8.4	7.5	6.7
30		0.69	-	-	16.5	13.7	11.8	10.3	9.1	8.2		
40		0.80	-	-	19.0	15.8	13.6	11.9	10.6	9.5		
50		0.89	-	-	21.3	17.7	15.2	13.3	11.8	10.6		
60		0.98	-	-	23.3	19.4	16.6	14.5	12.9	11.6		
70		1.06	-	-	21.0	18.0	15.7	14.0	12.6			
80		1.13	-	-	22.4	19.2	16.8	14.9	13.4			
90		1.20	-	-	23.8	20.4	17.8	15.8	14.3			
10		20	0.7	-	-	22.4	18.7	16.0	14.0	12.4	11.2	
	30	0.9	-	-	22.9	19.6	17.1	15.2	13.7			
	40	1.0	-	-	22.6	19.8	17.6	15.8				
	50	1.1	-	-	22.1	19.7	17.7					
	60	1.2	-	-	24.2	21.6	19.4					
	70	1.3	-	-	23.3	21.0						
	80	1.4	-	-	24.9	22.4						
	90	1.5	-	-	23.1							

Use charts as a general guideline only. For nozzle-specific pressure ranges and flows, use the information in the nozzle selection app or the Pentair Hypro catalog.



SPRAY NOZZLE GUIDE



UNDERSTAND PENTAIR HYPRO NOZZLES AND KNOW WHEN TO USE THEM.

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