The Irrigation Innovators







PCB Bubbler Nozzle



AFB Bubbler Nozzle



Multi-Stream Bubbler Nozzle



Bubbler Nozzle



Pop-up Micro-Spray Nozzle

All the precision of drip with none of the maintenance hassles

Irrigation

Small

Area

unter presents a way to meet your deep watering needs that offers considerable efficiency. With the ability to compensate for pressure differences, the Hunter PCB (and the PCN, which attaches directly to pop-up spray bodies) allows the output of water to remain constant regardless of the input pressure, resulting in a precise application never before achieved in bubblers. The same holds true with the MSBN and 5-CST-B nozzles, designed for deep watering of larger planted

areas. Now, every plant, shrub or tree can receive the same amount of water required with no excess runoff or waste. Best of all, because it's so simple to install, you'll have the perfect alternative to drip...no fancy filtration, no unsightly above-ground tubes, and considerably less chance of damage. For a more attractive, more efficient way to deep water, let the idea of Hunter's bubbler products sink in.

PCN Bubbler Nozzles



With the pressure compensating nozzle (PCN), you get all the advantages over traditional drip irrigation plus a product that sits atop a riser that retracts into the ground when not in use. It's the most tamper-proof, eye-appealing method of deep watering available today (attention specifiers...you're going to like this).

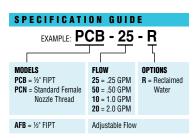
PCN Nozzle & PCB Performance Data								
	Pressure	Flow	Pattern					
Model	PSI	GPM	Type					
• 25	30	0.25	Trickle					
• 50	30	0.50	Trickle					
• 10	30	1.00	Umbrella					
- 20	30	2.00	Umbrella					
Note: Typical spacing 1 to 3 ft.								

PCN Nozzle & PCB Performance Data – Metric									
		Pressure		Flow		Pattern			
	Model	Bars	kPa	m³/hr	l/min	Type			
_	25	2.0	200	0.06	0.9	Trickle			
	5 0	2.0	200	0.11	1.9	Trickle			
U	10	2.0	200	0.23	3.8	Umbrella			
	<u> </u>	2.0	200	0.45	7.6	Umbrella			
Note: Typical spacing 0.3 to 0.9 m.									

PCB and AFB Bubbler Nozzles



Four different PCB models means that you can choose from colorcoded flow rates of either .25, .50, 1.0, or 2.0 gallons per minute to eliminate guesswork and guarantee that all your greenery gets exactly the water it needs. Or choose the AFB model which pressure compensates to a 2.0 GPM flow and can be fine-tuned with a stainless steel screw adjustment.



MSBN - Multi-Stream Bubbler Nozzles



A Hunter exclusive! Four streams on the half-circle, eight streams on the full-circle discharge water to more effectively cover a larger area needed in many planted zones. And because it installs on a pop-up sprinkler, the bubbler retracts when not irrigating, which prevents damage.

Multi-Stream Bubbler Performance Data									
Arc Mod	el	Pressure PSI	Flow GPM	Radius ft.					
MSBN-	25Q 50Q	30 30	0.25 0.50	1.0 1.5					
MSBN MSBN	-50H -10H	30 30	0.50 1.00	1.0 1.5					
MSBN- MSBN	10F -20F	30 30	1.00 2.00	1.0 1.5					
Note: Typical spacing 2 to 4 ft.									

Multi-Stream Bubbler Nozzle – Metric										
	Mardal	Pressure		Flow m ³ /hr l/min		Radius				
Arc	Model	Bars	kPa	1117/111	1/1111111	m				
K	MSBN-25Q MSBN-50Q	2.0 2.0	200 200	0.06 0.11	0.9 1.9	0.30 0.46				
₩	MSBN-50HMSBN-10H	2.0 2.0	200 200	0.11 0.23	1.9 3.8	0.30 0.46				
	MSBN-10F MSBN-20F	2.0 2.0	200 200	0.23 0.45	3.8 7.6	0.30 0.46				
Note: Ty	Note: Typical spacing 0.6 to 1.2 m.									

5-CST-B - Dual-Stream Bubbler Nozzles



This center strip nozzle expands our collection of specialty pattern offerings designed to accommodate the needs of long, narrow planting strips. The 5' stream coverage can be adjusted down 25% without the loss of pattern distribution. And only Hunter's version of this nozzle delivers optimum performance right out of the box.

5-CST-B Bubbler Nozzle Performance Data							
	Pressure	Radius	Flow				
	PSI	ft.	GPM				
-	20	5'	0.30				
	25	5'	0.32				
	30	5'	0.38				
	35	5'	0.40				
	40	5'	0.42				
Note: Typical spacing 2 to 4 feet.							

5-CST-B Bubbler Nozzle Performance Data – Metric								
	Pres	sure	Radius	Flo	OW			
	Bars	kPa	m	m³/hr	l/min			
	1.0	100	1.5	0.07	1.1			
	1.5	150	1.5	0.07	1.2			
	2.0	200	1.5	0.09	1.4			
	2.1	210	1.5	0.09	1.5			
	2.5	250	1.5	0.10	1.6			
Note: Typical spacing 0.6 to 1.2 m.								

Pop-Up Micro-Spray Nozzles



The unique pop-up design of the Hunter Micro-Spray Nozzle, coupled with the fact that it attaches directly to a pop-up sprinkler, makes this alternative to drip a winner. When not in use, both the nozzle and the spray head body retract, so nothing sticks up above the surface.



Micro-Spray Nozzles Performance Data								
Arc	Pressure PSI	Nozzle	Radius ft.	Flow GPM	Preci _l	p in/hr ▲		
90°	25 40 60	MS-Q	5' 5' 5'	0.12 0.14 0.14	1.85 2.16 2.16	2.13 2.49 2.49		
180°	25 40 60	MS-H	5' 5' 5'	0.25 0.28 0.29	1.93 2.16 2.23	2.22 2.49 2.58		
360°	25 40 60	MS-F	5' 5' 5'	0.50 0.56 0.58	1.93 2.16 2.23	2.22 2.49 2.58		

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Arc	Pres Bars	sure kPa	Nozzle	Radius m	Flo m³/hr	ow I/min	Precip	mm/hr
90°	1.0 3.0 5.0	100 300 500	MS-Q	1.5 1.5 1.5	0.03 0.03 0.03	0.45 0.53 0.53	48 56 56	56 65 65
180°	1.0 3.0 5.0	100 300 500	MS-H	1.5 1.5 1.5	0.06 0.06 0.07	0.95 1.06 1.10	50 56 59	58 65 68
360°	1.0 3.0 5.0	100 300 500	MS-F	1.5 1.5 1.5	0.11 0.13 0.13	1.90 2.12 2.20	50 56 59	58 65 68

Micro-Spray Nozzles Performance Data – Metric