

Pressure Compensating Screens Fine Mesh

Under the nozzle pressure compensation screens help reduce pressure fluctuations. Use to control fogging of spray nozzles by reducing the incoming pressure or to reduce the radius of the water pattern. Take control of your system with 1800 PCS screens.

Features

- Compensates for pressure variations.
- Eliminates fogging and water waste caused by high pressures.
- Nozzles can be matched with screens to create short-throw, reduced-radius patterns and/or flush-mounted bubblers.
- Color-coded for easy identification
- Use with all 1800 Series plastic nozzles.
- Easy installation - simply replace regular screen with a PCS screen.

Operating Range

- Flow: 0.10 to 3.70 gpm
(0,05 to 0,84 m³/h; 0,01 to 0,23 l/s)
- Pressure: 15 to 70 psi (1,0 to 4,8 Bars)



How to Specify

1804-SAM-15H-PCS-125

Model

**Optional
Performance
Screen**

**Optional
Feature**

**Nozzle
Series/
Pattern**

This specifies an 1800 Series spray head with 4" (10 cm) pop-up height; Seal-A-Matic™ check valve; 15 Series nozzle providing 180° coverage and pressure compensating screen to reduce radius to 12' (3,7 m).

1800 PCS Screen Performance - U-Series and VAN nozzles

	PCS-010		PCS-020		PCS-030		PCS-040		PCS-060		PCS-090		PCS-125		PCS-175		PCS-260		PCS-370				
	gpm	0.1	0.2	0.3	0.4	0.6	0.9	1.25	1.75	2.6	3.7	m ³ /h (l/s)	0.02 (0,01)	0.05 (0,01)	0.07 (0,02)	0.09 (0,03)	0.14 (0,04)	0.20 (0,06)	0.28 (0,08)	0.40 (0,11)	0.59 (0,16)	0.84 (0,23)	
Color	Purple	Brown	Silver	Orange	Black	White	Green	Yellow	Blue	Red													
Distance	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	
U-Series	U-12Q		2'	(0,6)	7'	(2,1)	12'	(3,7)															
	U-12H					3'	(0,9)	4'	(1,2)	7'	(2,1)	11'	(3,4)	12'	(3,7)								
	U-12F					3'	(0,9)	6'	(1,8)	8'	(2,4)	9'	(2,7)	11'	(3,4)	12'	(3,7)						
	U-15Q		2'	(0,6)	6'	(1,8)	11'	(3,4)	15'	(4,6)													
	U-15H					2'	(0,6)	3'	(0,9)	5'	(1,5)	9'	(2,7)	12'	(3,7)	15'	(4,6)						
	U-15F							4'	(1,2)	6'	(1,8)	7'	(2,1)	10'	(3,1)	13'	(4,0)	15'	(4,6)				
	4 (90°)		1'	(0,3)	3'	(0,9)	4'	(1,2)															
	4 (180°)		1'	(0,3)	2'	(0,6)	3'	(0,9)	4'	(1,2)													
	4 (270°)				1'	(0,3)	2'	(0,6)	4'	(1,2)													
	4 (330°)				1'	(0,3)	2'	(0,6)	4'	(1,2)													
	6 (90°)		1'	(0,3)	3'	(0,9)	6'	(1,8)															
	6 (180°)				2'	(0,6)	4'	(1,2)	6'	(1,8)													
	6 (270°)				0.5'	(0,2)	1'	(0,3)	3'	(0,9)	6'	(1,8)											
	6 (330°)				0.5'	(0,2)	1'	(0,3)	3'	(0,9)	6'	(1,8)											
	8 (90°)				1'	(0,3)	3'	(0,9)	8'	(2,4)													
8 (180°)				0.5'	(0,2)	2'	(0,6)	4'	(1,2)	8'	(2,4)												
8 (270°)						0.5'	(0,2)	3'	(0,9)	5'	(1,5)	8'	(2,4)										
8 (330°)						0.5'	(0,2)	3'	(0,9)	5'	(1,5)	8'	(2,4)										
10 (90°)				3'	(0,9)	5'	(1,5)	10'	(3,1)														
VAN	10 (180°)					1'	(0,3)	5'	(1,5)	7'	(2,1)	10'	(3,1)										
	10 (270°)					1'	(0,3)	4'	(1,2)	6'	(1,8)	9'	(2,7)	10'	(3,1)								
	10 (360°)					0.5'	(0,2)	1'	(0,3)	4'	(1,2)	6'	(1,8)	8'	(2,4)	10'	(3,1)						
	12 (90°)		3'	(0,9)	8'	(2,4)	10'	(3,1)	12'	(3,7)													
	12 (180°)				1'	(0,3)	2'	(0,6)	5'	(1,5)	8'	(2,4)	12'	(3,7)									
	12 (270°)				0.5'	(0,2)	1'	(0,3)	3'	(0,9)	6'	(1,8)	8'	(2,4)	12'	(3,7)							
	12 (360°)						1'	(0,3)	3'	(0,9)	5'	(1,5)	7'	(2,1)	12'	(3,7)							
	15 (90°)				2'	(0,6)	5'	(1,5)	11'	(3,4)	15'	(4,6)											
	15 (180°)				1'	(0,3)	3'	(0,9)	6'	(1,8)	9'	(2,7)	12'	(3,7)	15'	(4,6)							
	15 (270°)										6'	(1,8)	8'	(2,4)	15'	(4,6)							
	15 (360°)												8'	(2,4)	12'	(3,7)	14'	(4,3)	15'	(4,6)			
	18 (90°)				0.5'	(0,2)	2'	(0,6)	6'	(1,8)	12'	(3,7)	17'	(5,2)	18'	(5,5)							
	18 (180°)						1'	(0,3)	3'	(0,9)	5'	(1,5)	9'	(2,7)	16'	(4,9)	18'	(5,5)					
	18 (270°)						0.5'	(0,2)	1'	(0,3)	3'	(0,9)	5'	(1,5)	11'	(3,4)	15'	(4,6)	18'	(5,5)			
	18 (360°)						0.5'	(0,2)	1'	(0,3)	3'	(0,9)	4'	(1,2)	9'	(2,7)	12'	(3,7)	15'	(4,6)			

(continued on back)



Specifications

Under the nozzle pressure compensating screen shall be a two-piece screen combination with a flow-control module positioned in the middle.

The screens shall be color-coded by gallonages. Screen openings shall be 0.20" and compatible with all 1800 Series plastic nozzles. They shall regulate flow at inlet pressures of 30 to 70 psi and can be used to eliminate fogging or shorten radius

of throw. The screens shall be manufactured by Rain Bird Sprinkler Manufacturing Corporation, Glendora, California.

1800 PCS Screen Performance - MPR nozzles

	PCS-010		PCS-020		PCS-030		PCS-040		PCS-060		PCS-090		PCS-125		PCS-175		PCS-260		PCS-370	
gpm	0.1		0.2		0.3		0.4		0.6		0.9		1.25		1.75		2.6		3.7	
m ³ /h (l/s)	0,02 (0,01)		0,05 (0,01)		0,07 (0,02)		0,09 (0,03)		0,14 (0,04)		0,20 (0,06)		0,28 (0,08)		0,40 (0,11)		0,59 (0,16)		0,84 (0,23)	
Color	Purple		Brown		Silver		Orange		Black		White		Green		Yellow		Blue		Red	
Distance	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters	feet	meters
5Q	5'	(1,5)																		
5T	5'	(1,5)																		
5H	4'	(1,2)	5'	(1,5)																
5F					5'	(1,5)														
8Q	4'	(1,2)	8'	(2,4)																
8T			6'	(1,8)	7'	(2,1)	8'	(2,4)												
8H			5'	(1,5)	7'	(2,1)	8'	(2,4)												
8F					4'	(1,2)	3'	(0,9)	8'	(2,4)										
10Q	2'	(0,6)	6'	(1,8)	8'	(2,4)	10'	(3,1)												
10T			4'	(1,2)	9'	(2,7)	10'	(3,1)												
10H			3'	(0,9)	6'	(1,8)	8'	(2,4)	10'	(3,1)										
10F							1'	(0,3)	4'	(1,2)	8'	(2,4)	10'	(3,1)						
12Q			3'	(0,9)	8'	(2,4)	11'	(3,4)	12'	(3,7)										
12T			2'	(0,6)	6'	(1,8)	10'	(3,1)	11'	(3,4)	12'	(3,7)								
12H					4'	(1,2)	6'	(1,8)	10'	(3,1)	12'	(3,7)								
12TT					2'	(0,6)	4'	(1,2)	6'	(1,8)	9'	(2,7)	12'	(3,7)						
12TQ					2'	(0,6)	3'	(0,9)	6'	(1,8)	8'	(2,4)	10'	(3,1)	12'	(3,7)				
12F							2'	(0,6)	5'	(1,5)	7'	(2,1)	8'	(2,4)	12'	(3,7)				
15Q			3'	(0,9)	5'	(1,5)	9'	(2,7)	12'	(3,7)	15'	(4,6)								
15T					5'	(1,5)	7'	(2,1)	12'	(3,7)	14'	(4,3)	15'	(4,6)						
15H					3'	(0,9)	4'	(1,2)	7'	(2,1)	11'	(3,4)	15'	(4,6)						
15TT					1'	(0,3)	2'	(0,6)	4'	(1,2)	8'	(2,4)	10'	(3,1)	13'	(4,0)	15'	(4,6)		
15TQ											6'	(1,8)	8'	(2,4)	14'	(4,3)	15'	(4,6)		
15F											4'	(1,2)	6'	(1,8)	10'	(3,1)	12'	(3,7)	15'	(4,6)
16Q-SLA	1'	(0,3)	2'	(0,6)	8'	(2,4)	11'	(3,4)	16'	(4,9)										
16H-SLA			0.5'	(0,2)	1'	(0,3)	4'	(1,2)	9'	(2,7)	12'	(3,7)	16'	(4,9)						
16F-SLA							0.5'	(0,2)	2'	(0,6)	3'	(0,9)	6'	(1,8)	12'	(3,7)	16'	(4,9)		
22Q-SS			2'	(0,6)	7'	(2,1)	12'	(3,7)	20'	(6,1)	22'	(6,7)								
22H-SS					2'	(0,6)	4'	(1,2)	8'	(2,4)	14'	(4,3)	22'	(6,7)						
22F-SS									2'	(0,6)	5'	(1,5)	7'	(2,1)	18'	(5,5)	22'	(6,7)		
5Q-B			2'	(0,6)	4'	(1,2)	5'	(1,5)												
5H-B					1'	(0,3)	2'	(0,6)	5'	(1,5)										
5F-B							1'	(0,3)	2'	(0,6)	3'	(0,9)	5'	(1,5)						
5CST-B			1'	(0,3)	3'	(0,9)	5'	(1,5)												
15SQ											4' x 4'	(1,2 x 1,2)	7' x 7'	(2,1 x 2,1)	11' x 11'	(3,4 x 3,4)	15' x 15'	(4,6 x 4,6)	16' x 16'	(4,9 x 4,9)
9SST											9' x 9'	(2,7 x 2,7)	9' x 11'	(2,7 x 3,4)	9' x 13'	(2,7 x 4,0)	9' x 14'	(2,7 x 4,3)		
15CST							4' x 6'	(1,2 x 1,8)	4' x 12'	(1,2 x 3,7)	4' x 15'	(1,2 x 4,6)	4' x 17'	(1,2 x 5,2)	4' x 18'	(1,2 x 5,5)				
15SST							4' x 5'	(1,2 x 1,5)	4' x 10'	(1,2 x 3,1)	4' x 15'	(1,2 x 4,6)	4' x 16'	(1,2 x 4,9)						
15EST					4' x 12'	(1,2 x 3,7)	4' x 15'	(1,2 x 4,6)												

Bold type indicates recommended nozzle/screen combination to achieve catalog performance at 30 psi.
Note: Refer to catalog notation for proper nozzle selection.

Note: Screens were tested at 50 psi for 10 minutes prior to taking distance measurements. Distances may vary slightly with higher pressures and longer run times.

Rain Bird Sales, Inc.

970 West Sierra Madre Avenue, Azusa, CA 91702
Phone: (626) 963-9311 Fax: (626) 812-3411

Rain Bird Sales, Inc.

6640 South Bonney Avenue, Tucson, AZ 85706
Phone: (520) 434-6200 Fax: (520) 434-6246

Rain Bird International, Inc.

145 North Grand Avenue, Glendora, CA 91741
Phone: (626) 963-9311 Fax: (626) 963-4287

Rain Bird Technical Service

(800) 247-3782 (U.S. only)

www.rainbird.com

Rain Bird. Conserving More Than Water.

® Registered trademark of Rain Bird Sprinkler Mfg. Corp.
© 2000 Rain Bird Sprinkler Mfg. Corp. 6/00

D37025G