

### LF1200™ Series Sprinkler

The new Rain Bird® LF1200™ Series Sprinkler is built rugged to withstand the harsh conditions in agricultural applications. It has been designed to combine the advantages of an impact sprinkler with stream height flexibility that delivers precise, uniform and unrivaled water distribution.

This low-flow sprinkler offers full-circle operation with a variety of color-coded nozzles and deflector inserts that snap into place with a push of a finger, making accommodations to every setup a snap.

#### Features and Benefits

- ◆ High Distribution Uniformity
  - Weighted drive disk provides an increased dwell time between stream interruptions to achieve the maximum distance of throw
  - The deflector's water path is designed with break-up features that maximize throw distance and optimize uniformity
  - During impact, the Precision Jet (PJ) spoon guides the water stream gently away from the riser preventing erosion at the riser base
- ◆ Most Robust Sprinkler in its Class
  - Patented Ceramic Radial Bearing (CRB) is longer lasting than conventional counterparts
  - Patented Flow Dependent Brake (FDB) stabilizes rotation time over a range of water pressures
  - Provides consistent performance at high temperatures and below freezing
  - Deflector made of composite engineered thermoplastic
    - Provides dimensional stability
    - Resists wear caused by dirty water conditions
  - Drive disk made of engineered thermoplastic
    - Shields and protects sprinkler from freezing, wind-blown and water-borne debris
  - Springs and pin composed of high-grade stainless steel for corrosion resistance



- Ultraviolet (UV) stabilizer protects the sprinkler from the sun
- ◆ Easy to Use
  - One sprinkler separates into four parts: the drive unit, body, deflector and nozzle
  - No special tools required
    - EZ-twist tabs allow simple removal of the drive unit
    - Nozzles and deflectors snap in place with the push of a finger
  - Color coded nozzles and deflectors allow easy identification
  - Weed Guard blocks weeds from growing into the sprinkler and stopping the rotations
  - Optional stream splitter blocks approximately 20% of the sprinkler's pattern to avoid unwanted watering

#### Operating Range

- Pressure: 25 to 60 psi (1.7 to 4.1 bar)
- Flow Rate: .97 to 2.0 gpm (220 to 454 l/hr)
- See chart on page 2 for details

#### Specifications

- 1/2" (13 mm) NPT male pipe thread
- 23mm Acme male thread (requires special adapter)
- Nozzle Sizes:
  - blue 0.078" (1.98mm, 5/64")
  - orange 0.086" (2.18mm, 44 drill)
  - purple 0.094" (2.39mm, 3/32")
  - yellow 0.102" (2.59mm, 38 drill)
- Deflector trajectory outlets are:
  - 6° (dark purple)
  - 10° (white)
  - 12° (green)
  - 16° (red)
  - 17° (powder blue)

#### Specifications

The full circle sprinkler shall be of a stationary interchangeable nozzle type, with an impact driven rotation and single interchangeable deflector, capable of covering \_\_\_ (feet, meters) radius, at \_\_\_ pounds per square inch (psi) (or bars), a stream height of \_\_\_ (inches, centimeters) with a discharge rate of \_\_\_ (gph, l/hr).

The sprinkler shall require no tools for installation or operation. The sprinkler shall accept \_\_\_ interchangeable color-coded nozzles with \_\_\_ color-coded deflectors. The drive unit shall be removed from the sprinkler body with or without the sprinkler in operation. Removal of the drive unit from the body shall allow access to the deflector. The sprinkler body shall be removed from the riser for nozzle replacement. Deflectors shall be designed to match individual nozzle sizes and provide a water profile that yields optimum uniformity at a multitude of spacings.

There shall be no dynamic or rotating seals in the sprinkler. The nozzle shall seal to the sprinkler body through a stationary pressure-activated seal that does not wear out over time or need replacement. The main bearing shall be made of a ceramic material for ultra low wear in the dirtiest and grittiest environment. The fulcrum pin is of a patent pending configuration that shall be made of a high grade stainless steel for superior wear

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#### How to Specify/Order:

<b>LF01 - B - 10 - 44</b>		
<u>Model Number</u>		<u>Nozzle Size</u>
01 = Assembled 02 = Unassembled 03 = Acme Assembled		05 = blue 44 = orange 06 = purple 38 = yellow
<u>Deflector Family</u>		
<u>Deflector Degree</u>		
6 degrees, dark purple 10 degrees, white 12 degrees, green 16 degrees, red 17 degrees, powder blue		



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resistance in the worst abrasive environments. The main brake washers shall consist of a very durable integrated plastic capable of enduring gritty and abrasive environments.

The sprinkler shall maintain rotation times of under 80 seconds for 1.0 to 1.5 gpm and under 60 seconds for 1.5 to 2.0 gpm (under 120 seconds for blue nozzle applications). The sprinkler may experience a break-in period where it shall perform out of the factory between 10-40 seconds depending on flow. The sprinkler shall be an excellent frost protection sprinkler because of its uniformity patterns.

The amount of time between impacts shall be much greater giving the advantage of holding the stream stationary for longer periods of time, allowing the water stream to attain a maximum radius of throw. The time to travel full circle shall remain more consistent through the different flow rates because braking action is done with water momentum as opposed to line pressure.

The LF1200 Series Sprinkler shall be as manufactured by Rain Bird Corporation, Glendora, California.

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### LF1200 Series Sprinkler Performance Charts

Deflector Options	Nozzle	Performance	US Standard Operating Pressures and Flows							
			25 psi	30 psi	35 psi	40 psi	45 psi	50 psi	55 psi	60 psi
6° Dark Purple Stream Height: 14-24"	Orange, 44 drill .086"	Radius (ft)		24	25	26	26	27	27	27
		Flow (gpm)		1.17	1.26	1.35	1.43	1.51	1.59	1.67
	Purple, 3/32" .094"	Radius (ft)	24	26	27	28	28	29	29	29
		Flow (gpm)	1.49	1.39	1.5	1.61	1.71	1.8	1.89	1.98
	Yellow, 38 drill .102"	Radius (ft)	30	27	32	29	29			
		Flow (gpm)	1.49	1.63	1.77	1.89	2			
10° White Stream Height: 19-34"	Blue, 5/64" .078"	Radius (ft)		24*	25*	26*	26*	27*	27*	27*
		Flow (gpm)		0.97*	1.05*	1.12*	1.19*	1.25*	1.31*	1.37*
	Orange, 44 drill .086"	Radius (ft)		25	27	27	27	27	30	29
		Flow (gpm)		1.17	1.26	1.35	1.43	1.51	1.59	1.67
	Purple, 3/32" .094"	Radius (ft)	26	27	28	29	29	29	29	29
		Flow (gpm)	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98
Yellow, 38 drill .102"	Radius (ft)	27	28	28	30	30				
	Flow (gpm)	1.49	1.63	1.77	1.89	2				
12° Green Stream Height: 28-40"	Orange, 44 drill .086"	Radius (ft)		27	28	29	29	29	29	30
		Flow (gpm)		1.17	1.26	1.35	1.43	1.51	1.59	1.67
	Purple, 3/32" .094"	Radius (ft)	27	29	30	31	31	31	31	32
		Flow (gpm)	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98
	Yellow, 38 drill .102"	Radius (ft)	30	30	32	32	32			
		Flow (gpm)	1.49	1.63	1.77	1.89	2			
16° Red Stream Height: 39-59"	Blue, 5/64" .078"	Radius (ft)				30*	30*	31*	31*	31*
		Flow (gpm)				1.12*	1.19*	1.25*	1.31*	1.37*
	Orange, 44 drill .086"	Radius (ft)		31	32	32	32	32	32	32
		Flow (gpm)		1.17	1.26	1.35	1.43	1.51	1.59	1.67
	Purple, 3/32" .094"	Radius (ft)	30	31	32	33	33	34	34	34
		Flow (gpm)	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98
Yellow, 38 drill .102"	Radius (ft)	30	31	33	33	33				
	Flow (gpm)	1.49	1.63	1.77	1.89	2				
17° Powder Blue Stream Height: 41-61"	Blue, 5/64" .078"	Radius (ft)		28*	29*	30*	30*	31*	32*	33*
		Flow (gpm)		0.97*	1.05*	1.12*	1.19*	1.25*	1.31*	1.37*
	Orange, 44 drill .086"	Radius (ft)		31	33	33	34	33	34	33
		Flow (gpm)		1.17	1.26	1.35	1.43	1.51	1.59	1.67
	Purple, 3/32" .094"	Radius (ft)	31	33	34	35	35	34	36	35
		Flow (gpm)	1.27	1.39	1.5	1.61	1.71	1.8	1.89	1.98
Yellow, 38 drill .102"	Radius (ft)	32	34	35	36	36				
	Flow (gpm)	1.49	1.63	1.77	1.89	2				

Deflector Options	Nozzle	Performance	Metric Standard Operating Pressures and Flows							
			1.7 Bar	2.1 Bar	2.4 Bar	2.8 Bar	3.1 Bar	3.4 Bar	3.8 Bar	4.1 Bar
6° Dark Purple Stream Height: 35-61cm	Orange, 44 drill 2.18mm	Radius (m)		7.32	7.62	7.92	7.92	8.23	8.23	8.23
		Flow (L/hr)		266	286	307	325	343	361	379
	Purple, 3/32" 2.39mm	Radius (m)	7.32	7.92	8.23	8.53	8.53	8.84	8.84	8.84
		Flow (L/hr)	289	316	341	366	388	409	429	450
	Yellow, 38 drill 2.59mm	Radius (m)	9.14	8.23	9.75	8.84	8.84			
		Flow (L/hr)	339	370	402	429	454			
10° White Stream Height: 48-86cm	Blue, 5/64" 1.98mm	Radius (m)		7.3*	7.6*	7.9*	7.9*	8.2*	8.2*	8.2*
		Flow (L/hr)		220*	238*	255*	270*	284*	298*	311*
	Orange, 44 drill 2.18mm	Radius (m)		7.62	8.23	8.23	8.23	8.23	9.14	8.84
		Flow (L/hr)		266	286	307	325	343	361	379
	Purple, 3/32" 2.39mm	Radius (m)	7.92	8.23	8.53	8.84	8.84	8.84	8.84	8.84
		Flow (L/hr)	289	316	341	366	388	409	429	450
Yellow, 38 drill 2.59mm	Radius (m)	8.23	8.53	8.53	9.14	9.14				
	Flow (L/hr)	339	370	402	429	454				
12° Green Stream Height: 71-101cm	Orange, 44 drill 2.18mm	Radius (m)		8.23	8.84	8.84	8.84	8.84	8.84	9.14
		Flow (L/hr)		266	286	307	325	343	361	379
	Purple, 3/32" 2.39mm	Radius (m)	8.23	8.84	9.45	9.45	9.45	9.45	9.45	9.75
		Flow (L/hr)	289	316	341	366	388	409	429	450
	Yellow, 38 drill 2.59mm	Radius (m)	9.14	9.14	9.75	9.75	9.75			
		Flow (L/hr)	339	370	402	429	454			
16° Red Stream Height: 99-150cm	Blue, 5/64" 1.98mm	Radius (m)				9.1*	9.1*	9.4*	9.4*	9.4*
		Flow (L/hr)				255*	270*	284*	298*	311*
	Orange, 44 drill 2.18mm	Radius (m)		9.45	9.75	9.75	9.75	9.75	9.75	9.75
		Flow (L/hr)		266	286	307	325	343	361	379
	Purple, 3/32" 2.39mm	Radius (m)	9.14	9.45	9.75	10.06	10.06	10.36	10.36	10.36
		Flow (L/hr)	289	316	341	366	388	409	429	450
Yellow, 38 drill 2.59mm	Radius (m)	9.14	9.45	10.06	10.06	10.06				
	Flow (L/hr)	339	370	402	429	454				
17° Powder Blue Stream Height: 104-155cm	Blue, 5/64" 1.98mm	Radius (m)		8.5*	8.8*	9.1*	9.1*	9.4*	9.8*	10.15*
		Flow (L/hr)		220*	239*	255*	270*	284*	298*	311*
	Orange, 44 drill 2.18mm	Radius (m)		9.45	10.06	10.06	10.36	10.06	10.36	10.06
		Flow (L/hr)		266	286	307	325	343	361	379
	Purple, 3/32" 2.39mm	Radius (m)	9.45	10.06	10.36	10.67	10.67	10.36	10.97	10.67
		Flow (L/hr)	289	316	341	366	388	409	429	450
Yellow, 38 drill 2.59mm	Radius (m)	9.45	10.36	10.67	10.97	10.97				
	Flow (L/hr)	339	370	402	429	454				

\*For applications where the blue nozzle is used, the sprinkler riser must be stable to achieve stated sprinkler performance. Please contact 1-800-HELLOAG to speak with a Rain Bird representative about specific recommendations.