

## LFX300 Low Flow Sprinkler



The Rain Bird® LFX Low Flow Sprinkler was designed and built with efficiency in mind. The small footprint of the low-volume LFX300 offers unparalleled operational flexibility with both interchangeable brake assemblies and nozzles. Featuring unmatched water distribution at all trajectories, the LFX300 is perfect for a wide variety of applications.

### Features

- Simple three part sprinkler design includes body, nozzle, and brake assembly with attached deflector
- Each nozzle and brake assembly was designed to easily be changed with other sizes or outlet trajectories to maximize operational flexibility
- Easy field maintenance with simple snap-in-place nozzle and brake assembly including visual indicators to ensure correct positioning
- Engineered to provide superior distribution uniformity for low volume applications in either an under-tree or over-head configuration
- Constructed of engineered thermoplastic materials for durability and weather resistance
- Color coded nozzles and deflectors for easy identification
- Two flow control nozzle options for consistent flow of water

### Applications

- For Agriculture, Greenhouse, and Nursery applications which require a small footprint or low-volume sprinkler
- Optimized for a wide variety of applications including orchard and field irrigation, environmental control, crop cooling, and dust control

### Accessories

- Stake options include: steel, fiberglass, or preassembled PVC assemblies
- 5mm feedtube configurations include: coil for custom installation, precut pieces in 30" (76.2cm) or 42" (106.7cm) length with barb preinstalled (with or without stake adapter installed)
- Variety of adapters for increased application flexibility

### Specifications

#### Operating Range:

- Pressure: 25 to 50 psi (1.72 to 3.45 bar)
- Flow rate: 0.3 to 0.7 gpm (68 to 159 l/h)
- Radius of throw: 18 to 25 feet (5.5 to 7.6 meters)

#### Sprinkler Body Options:

- 1/2" (13mm) NPT male pipe thread
- Female ACME thread

#### Deflector Trajectory Outlets:

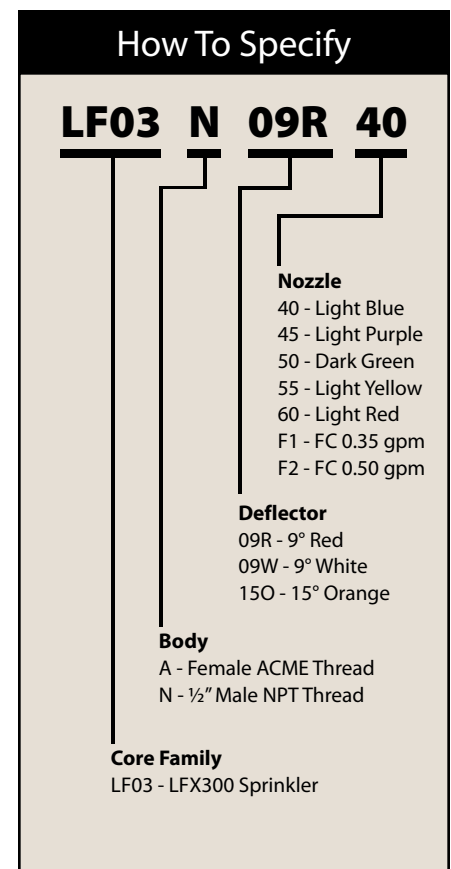
- Deflector preassembled in brake assembly
- 9° Red
- 9° White
- 15° Orange

#### Nozzle Sizes:

- 40 Light Blue (0.040", 1.02mm)
- 45 Light Purple (0.045", 1.14mm)
- 50 Dark Green (0.050", 1.27mm)
- 55 Light Yellow (0.055", 1.40mm)
- 60 Light Red (0.060", 1.52mm)
- F1 0.35 gpm (79.5 l/h) Flow Control
- F2 0.50 gpm (113.6 l/h) Flow Control

### Packaging Data

- Sprinkler can be ordered assembled from the factory or a la carte for ultimate field flexibility
- Assembled sprinklers can be ordered in increments of 1; case quantity of 400
- Sprinkler parts vary in order increment and case quantity; Nozzles: Order increment of 200; case quantity of 1,600. Brake Assemblies: Order increment of 200; case quantity of 4,000. Bodies: Order increment of 1; case quantity of 400
- Accessories and mounting options vary in order increment; Call for details



### System Components

**Brake Assembly with Deflector**

- 9° Red, Item 1804999R
- 9° White Item 1804999W
- 15° Orange, Item 18049915O

**Nozzle**

- Light Blue 40, 0.040" (1.01mm), Item 18116940B
- Light Purple 45, 0.045" (1.14mm), Item 18116945P
- Dark Green 50, 0.050" (1.27mm), Item 18116950G
- Light Yellow 55, 0.055" (1.39mm), Item 18116955Y
- Light Red 60, 0.060" (1.52mm), Item 18116960R
- F1 0.35gpm (79 l/h) Flow Control, Item 18212535
- F2 0.50gpm (113 l/h) Flow Control, Item 18212550



**Body**

- Female ACME, Item 180502
- 1/2" (12.7mm) Male NPT, Item 180474

### Mounting Options and Accessories




A variety of mounting options are available to support the LFX300 Low Flow Sprinkler. These interchangeable, inexpensive, and simple to use mounting options are supported with installation tools. To add flexibility to this already flexible sprinkler, mounting accessories also feature Rain Bird® extruded 5mm feedtube in two pre-cut lengths or a full coil for complete customization.



#### ADAPTER OPTIONS

 <p><b>Universal Stake Adapter</b></p> <p>Interchangeable stake adapter for use with small diameter (1/4" or 5/16") or large diameter (1/2" or 3/4") stakes.</p> <p>Item #181179</p>	 <p><b>ACME to Slip Adapter</b></p> <p>Converts female ACME connection to slip fit; allows adapter to be glued to stake.</p> <p>ACME to 1/2" or 3/4". Grey. Item #181177</p> <p>ACME to 20mm or 25mm. White. Item #181178</p>	 <p><b>ACME to 1/2" MNPT Adapter</b></p> <p>Converts Female ACME connection to 1/2" MNPT.</p> <p>Item #181175</p>
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#### 5MM Distribution Options

<p><b>Precut Tube, Assembled with Universal Stake Adapter &amp; Barb</b></p> <p>30" (76cm) Lead Item# 18208630</p> <p>42" (106.7cm) Lead Item# 18208642</p> 	<p><b>Precut Tube, Assembled with Universal Barb</b></p> <p>30" (76cm) Lead Item# 18208530</p> <p>42" (106.7cm) Lead Item# 18208542</p> 	<p><b>5mm Distribution Tubing</b></p>  <p>OD: 0.30" (7.62mm) ID: 0.20" (5.08mm) Wall Thickness: 0.05" (1.27mm) Coil Length: 500' (152.4m) Model# LFX550 Item# 18208750</p>
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**1/2" (13MM) PVC STAKE ASSEMBLY**

Factory assembled with, PVC stake, 5mm feedtube, and adapter

**30" (76cm) Lead**  
Item# 18209130

**42" (106.7cm) Lead**  
Item# 18209142

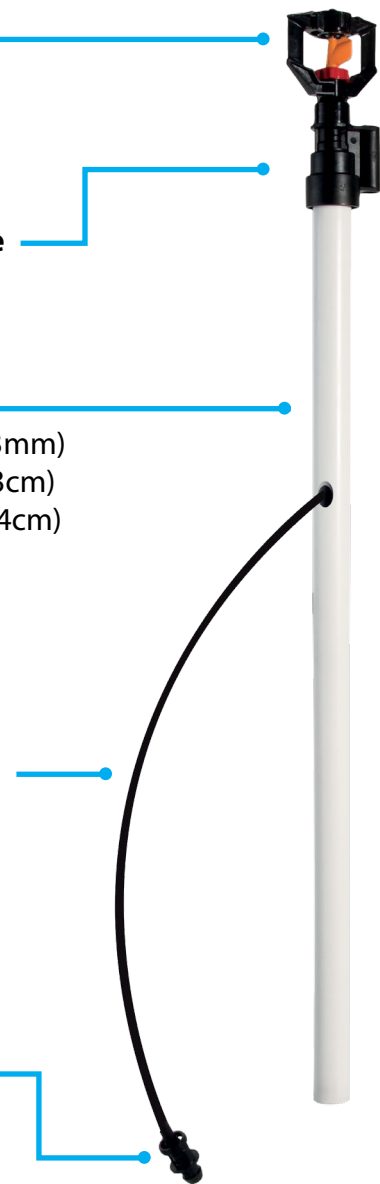
**Sprinkler with Female ACME connection**  
(sold separately)

**Universal Stake Adapter**  
Item# 181179

**PVC Stake**  
Diameter: 1/2" (13mm)  
Length: 21" (53.3cm)  
Exit Hole: 9.5" (24cm) from top

**5mm Feedtube**  
Length Options:  
30" (76cm)  
42" (106.7cm)

**5mm/10mm Universal Barb**  
Item# 181182



**24" (61CM) LONG STAKE OPTIONS**

Stake, feedtube assembly, and sprinkler each sold separately

**Sprinkler with Female ACME connection**  
(sold separately)

**Feedtube Assembly with Universal Stake Adapter and Universal Barb**

With 30" (76cm) Lead  
Item# 18208630

With 42" (106.7cm) Lead  
Item# 18208642

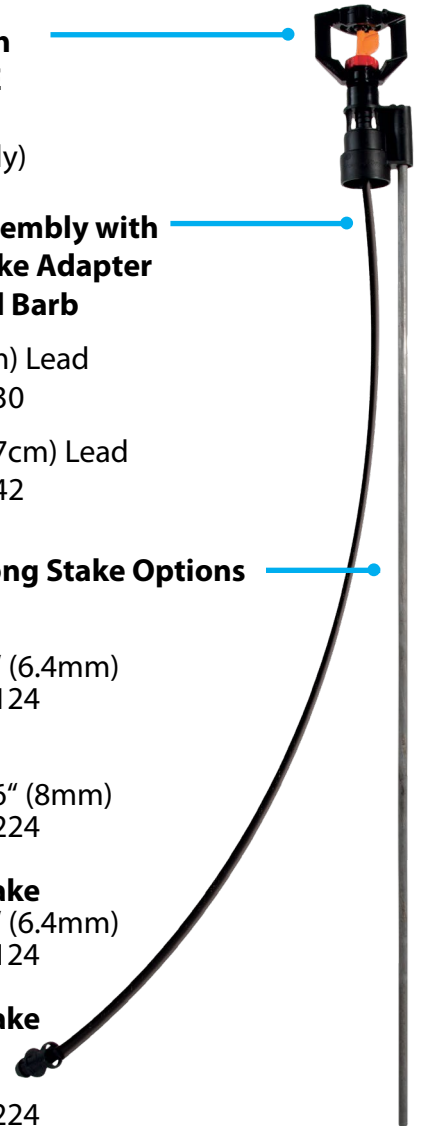
**24" (61cm) Long Stake Options**

**Steel Stake**  
Diameter: 1/4" (6.4mm)  
Item# 18208S124
















**Steel Stake**  
Diameter: 5/16" (8mm)  
Item# 18208S224
















**Fiberglass Stake**  
Diameter: 1/4" (6.4mm)  
Item# 18208F124

**Fiberglass Stake**  
Diameter:  
5/16" (8mm)  
Item# 18208F224



# Performance Chart

BRAKE ASSEMBLY WITH DEFLECTOR	NOZZLE	STREAM HEIGHT	FLOW RATES AT STANDARD PRESSURE						MODEL NUMBER				
			GALLONS PER MINUTE (gpm)						PART NUMBER				
			Throw Radius (feet)						NPT THREAD	ACME THREAD			
						25 psi	30 psi	35 psi	40 psi	45 psi	50 psi		
 <b>9 Degree Red</b> 1804999R	<b>Light Blue #40</b> 0.040" (1.016 mm) Item# 18116940B		20-23 in (50.8-58.4cm)	—	—	0.28	0.30	0.32	0.34	—	—	LF03N09R40	LF03A09R40
	<b>Light Purple #45</b> 0.045" (1.143 mm) Item# 18116945P		19-25 in (48.3-63.5cm)	0.29	0.32	0.35	0.37	0.39	0.41	20	20	A85301D9R40	A85303D9R40
	<b>Dark Green #50</b> 0.050" (1.270 mm) Item# 18116950G		21-29 in (53.3-73.6cm)	0.36	0.40	0.43	0.46	0.48	0.51	21	21	LF03N09R50	LF03A09R50
	<b>FC1 0.35gpm (79.5 l/h)</b> Item# 18212535		20-25 in (50.8 - 63.5cm)	0.35						—	—	LF03N09RF1	LF03A09RF1
 <b>9 Degree White</b> 1804999W	<b>Dark Green #50</b> 0.050" (1.270 mm) Item# 18116950G		20-24 in (50.8-61cm)	—	—	0.43	0.46	0.48	0.51	22	23	A85301D9W50	A85303D9W50
	<b>Light Yellow #55</b> 0.055" (1.397 mm) Item# 18116955Y		17-25 in (43.2-63.5cm)	0.44	0.48	0.52	0.55	0.59	0.62	21	25	LF03N09W55	LF03A09W55
	<b>Light Red #60</b> 0.060" (1.524 mm) Item# 18116960R		17-25 in (43.2-63.5cm)	0.51	0.56	0.61	0.65	0.69	0.73	23	25	A85301D9W55	A85303D9W55
	<b>FC2 0.50 gpm (113.6 l/h)</b> Item# 18212550		20-25 in (50.8-63.5cm)	0.50						—	—	LF03N09W60	LF03A09W60
 <b>15 Degree Orange</b> 18049915O	<b>Dark Green #50</b> 0.050" (1.270 mm) Item# 18116950G		34-39 in (86.4-99.1cm)	—	—	0.43	0.46	0.48	0.51	24	25	A85301D9W60	A85303D9W60
	<b>Light Yellow #55</b> 0.055" (1.397 mm) Item# 18116955Y		36-42 in (91.4-106.7cm)	0.44	0.48	0.52	0.55	0.59	0.62	23	24	LF03N09WF2	LF03A09WF2
	<b>Light Red #60</b> 0.060" (1.524 mm) Item# 18116960R		33-41 in (83.8-104.1cm)	0.51	0.56	0.61	0.65	0.69	0.73	24	24	A85301D9WF2	A85303D9WF2
	<b>FC2 0.50 gpm (113.6 l/h)</b> Item# 18212550		30-42 in (76.2-106.7 cm)	0.50						—	—	LF03N15O50	LF03A15O50
				18								A85301D1550	A85303D1550
				20								A85301D1560	A85303D1560
				20								LF03N15O60	LF03A15O60
				20								A85301D1560	A85303D1560
				20								LF03N15OF2	LF03A15OF2
				20								A85301D15F2	A85303D15F2

BRAKE ASSEMBLY WITH DEFLECTOR	NOZZLE	STREAM HEIGHT	FLOW RATES AT STANDARD PRESSURE							MODEL NUMBER					
			LITERS PER HOUR (l/h)							PART NUMBER					
			Throw Radius (meter)							NPT THREAD	ACME THREAD				
							1.75 bar	2 bar	2.25 bar	2.5 bar	2.75 bar	3 bar	3.25 bar		
 <b>9 Degree Red</b> 1804999R	<b>Light Blue #40</b> 0.040" (1.016 mm) Item# 18116940B		20-23 in (50.8-58.4cm)	—	—	62	65	68	71	74	—	—	LF03N09R40	LF03A09R40	
	<b>Light Purple #45</b> 0.045" (1.143 mm) Item# 18116945P		19-25 in (48.3-63.5cm)	67	72	76	80	84	88	91	6.1	6.1	A85301D9R40	A85303D9R40	
	<b>Dark Green #50</b> 0.050" (1.270 mm) Item# 18116950G		21-29 in (53.3-73.6cm)	83	88	94	99	104	108	113	6.4	6.4	LF03N09R50	LF03A09R50	
	<b>FC1 0.35gpm (79.5 l/h)</b> Item# 18212535		20-25 in (50.8 - 63.5 cm)	80							—	—	LF03N09RF1	LF03A09RF1	
 <b>9 Degree White</b> 1804999W	<b>Dark Green #50</b> 0.050" (1.270 mm) Item# 18116950G		20-24 in (50.8-61cm)	—	—	94	99	104	108	113	6.7	7.0	A85301D9R50	A85303D9R50	
	<b>Light Yellow #55</b> 0.055" (1.397 mm) Item# 18116955Y		17-25 in (43.2-63.5cm)	100	107	114	120	126	131	137	6.4	6.7	LF03N09W50	LF03A09W50	
	<b>Light Red #60</b> 0.060" (1.524 mm) Item# 18116960R		17-25 in (43.2-63.5cm)	118	126	134	141	148	154	161	7.3	7.3	A85301D9W50	A85303D9W50	
	<b>FC2 0.50 gpm (113.6 l/h)</b> Item# 18212550		20-25 in (50.8 - 63.5 cm)	114							—	—	LF03N09W55	LF03A09W55	
 <b>15 Degree Orange</b> 18049915O	<b>Dark Green #50</b> 0.050" (1.270 mm) Item# 18116950G		34-39 in (86.4-99.1cm)	—	—	94	99	104	108	113	7.0	7.0	A85301D9W55	A85303D9W55	
	<b>Light Yellow #55</b> 0.055" (1.397 mm) Item# 18116955Y		36-42 in (91.4-106.7cm)	100	107	114	120	126	131	137	7.6	7.6	LF03N15O50	LF03A15O50	
	<b>Light Red #60</b> 0.060" (1.524 mm) Item# 18116960R		33-41 in (83.8-104.1cm)	118	126	134	141	148	154	161	7.3	7.3	A85301D1550	A85303D1550	
	<b>FC2 0.50 gpm (113.6 l/h)</b> Item# 18212550		30-42 in (76.2-106.7 cm)	114							—	—	LF03N15O60	LF03A15O60	
				6.2									A85301D1560	A85303D1560	
				6.2									LF03N15OF2	LF03A15OF2	
				6.2									A85301D15F2	A85303D15F2	

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