

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
- Three 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: 0.28 to 0.73 gpm (62 to 161 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
- F3 0.43 gpm (97.7 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

How To Specify

LF03 N 09R 40

Nozzle

- 40 - Light Blue
- 45 - Light Purple
- 50 - Dark Green
- 55 - Light Yellow
- 60 - Light Red
- F1 - FC 0.35 gpm
- F2 - FC 0.50 gpm
- F3 - FC 0.43 gpm

Deflector

- 09R - 9° Red
- 09W - 9° White
- 15O - 15° Orange

Body

- A - Female ACME Thread
- N - 1/2" Male NPT Thread

Core Family

LF03 - LFX300 Sprinkler

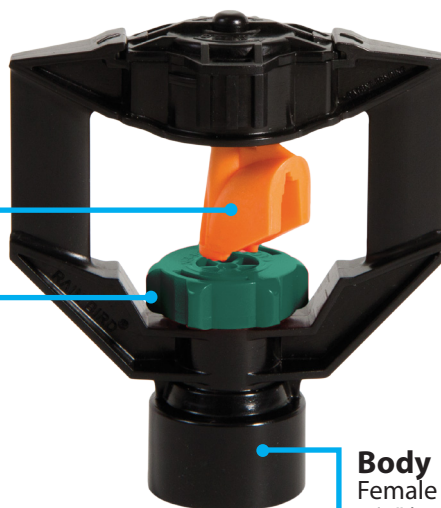
System Components

Brake Assembly with Deflector

9° Red, Item 1804999R
9° White, Item 1804999W
15° Orange, Item 180499150

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
F3 0.43gpm (97 l/h) Flow Control, Item 18212543



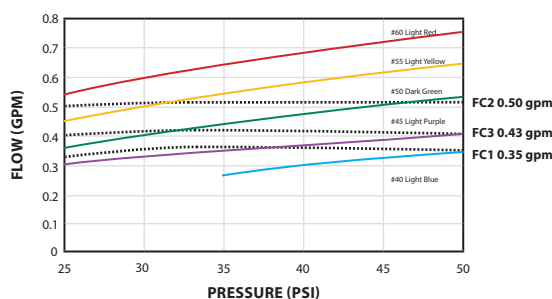
Body

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

SAVE WATER AND INCREASE YIELD BY REGULATING FLOW ACROSS THE ENTIRE PRESSURE RANGE

Upgrade the standard flow nozzle to the Flow Control (FC) nozzle for consistent flow along laterals and across terrain variations.

- Avoid over or under watering
- Increase yield with regulated flow
- Simple upgrade, no special tools required
- Select from 0.35gpm (79.5 l/h), 0.43 gpm (97.7 l/h), or 0.50gpm (113.6 l/h)



Accessories and Adapters

ACCESSORIES

Edge Guard



- Converts the full-circle LFX sprinkler to a part-circle operation
- Simple snap-in-place assembly
- Supports both low and high angle deflector trajectories
- As designed, irrigates 190-degrees. Can be modified to adjust coverage.

Item# 182307EG

Stream Splitters



- Creates a dry wedge in the wet area to protect tree trunks
- Easily snap-onto LFX body
- Available in two options to protect trees on one or both sides of the sprinkler

Single Sided, Item# 18230610
Double Sided, Item# 18230620

ADAPTER OPTIONS

Universal Stake Adapters



- Interchangeable stake adapter press fits on to small or large diameter stakes
 - For use with ACME sprinkler
- US supports 1/4" or 5/16" and 1/2" or 3/4" stakes. Item# 181179
METRIC supports 6mm or 8mm and 20mm or 25mm stakes. Item# 18210720

ACME to Slip Adapters



- Connects female ACME sprinkler to PVC stake or riser
 - Allows adapter to be glued to stake or riser
 - Available in two configurations for US or Metric size stakes
- US supports ACME to 1/2" or 3/4"; Grey. Item# 181177
Metric supports ACME to 20mm or 25mm; White. Item# 181178

ACME to MNPT Adapters



- Converts female ACME sprinkler to MNPT thread
 - For use with ACME sprinkler
 - Available in two diameters, 3/8" or 1/2"
- ACME to 3/8". Item# 182987
ACME to 1/2". Item# 181178

5MM DISTRIBUTION OPTIONS

Precut Tube, Assembled with Universal Stake Adapter & Barb

30" (76cm) Lead

Item# 18208630

42" (106.7cm) Lead

Item# 18208642

**Precut Tube, Assembled with Barb**

30" (76cm) Lead

Item# 18208530

42" (106.7cm) Lead

Item# 18208542

**5mm Distribution Tubing**

OD: 0.30" (7.62mm)

ID: 0.20" (5.08mm)

Wall Thickness: 0.05" (1.27mm)

Coil Length: 500' (152.4m)

Model# LFXT550

Item# 18208750

½" (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)

PVC Stake

Diameter: ½" (13mm)

Length: 21" (53.3cm)

Exit Hole: 9.5" (24cm) from top

5mm Feedtube

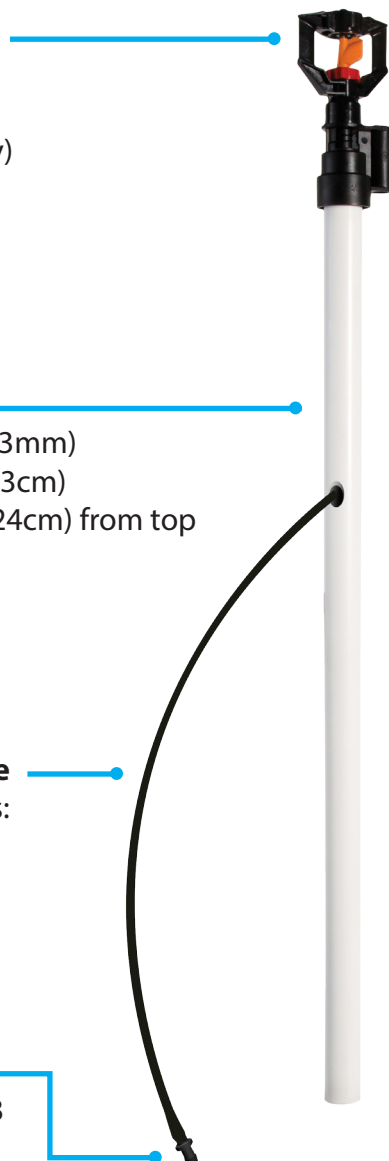
Length Options:

30" (76cm)

42" (106.7cm)

5mm Barb

Item# 182854B

**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 5mm Barb

With 30" (76cm) Lead

Item# 18208630

With 42" (106.7cm) Lead

Item# 18208642

Stake Options:**Steel Stake**

24" (61cm) Long, 1/4" (6.4mm)

Diameter. Item# 18208S124

24" (61cm) Long, 5/16" (8mm)

Diameter. Item# 18208S224

48" (122cm) Long, 5/16" (8mm)

Diameter Item# 18208S248

Fiberglass Stake

24" (61cm) Long,

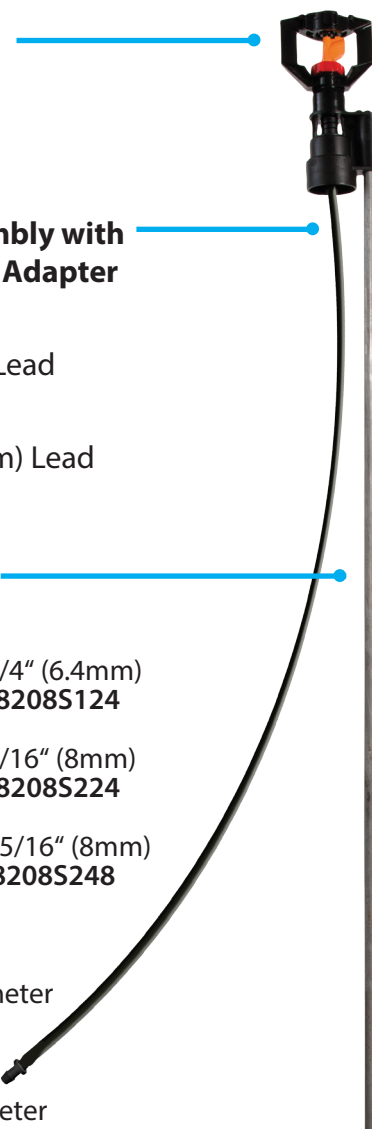
1/4" (6.4mm) Diameter

Item# 18208F124

24" (61cm) Long,

5/16" (8mm) Diameter

Item# 18208F224



Performance Chart

MATRIX OF ASSEMBLIES	BRAKE ASSEMBLY WITH DEFLECTOR	NOZZLE	STREAM HEIGHT	FLOW RATES AT STANDARD PRESSURE						MODEL NUMBER	
				GALLONS PER MINUTE (gpm)						PART NUMBER	
				Throw Radius (feet)							
				25 psi	30 psi	35 psi	40 psi	45 psi	50 psi	NPT THREAD	ACME THREAD
	9 Degree Red 1804999R		20-23 in (50.8-58.4cm)	—	—	0.28	0.30	0.32	0.34	LF03N09R40	LF03A09R40
			19-25 in (48.3-63.5cm)	0.29	0.32	0.35	0.37	0.39	0.41	LF03N09R45	LF03A09R45
			21-29 in (53.3-73.6cm)	0.36	0.40	0.43	0.46	0.48	0.51	LF03N09R50	LF03A09R50
			20-25 in (50.8 - 63.5cm)	0.35						LF03N09RF1	LF03A09RF1
			20-25 in (50.8 - 63.5cm)	0.43						LF03N09RF3	LF03A09RF3
	9 Degree White 1804999W		20-24 in (50.8-61cm)	—	—	0.43	0.46	0.48	0.51	LF03N09W50	LF03A09W50
			17-25 in (43.2-63.5cm)	0.44	0.48	0.52	0.55	0.59	0.62	LF03N09W55	LF03A09W55
			17-25 in (43.2-63.5cm)	0.51	0.56	0.61	0.65	0.69	0.73	LF03N09W60	LF03A09W60
			20-25 in (50.8-63.5cm)	0.50						LF03N09WF2	LF03A09WF2
				18							
	15 Degree Orange 180499150		34-39 in (86.4-99.1cm)	—	—	0.43	0.46	0.48	0.51	LF03N15O50	LF03A15O50
			36-42 in (91.4-106.7cm)	0.44	0.48	0.52	0.55	0.59	0.62	LF03N15O55	LF03A15O55
			33-41 in (83.8-104.1cm)	0.51	0.56	0.61	0.65	0.69	0.73	LF03N15O60	LF03A15O60
			30-42 in (76.2-106.7 cm)	0.50						LF03N15OF2	LF03A15OF2
				20							

MATRIX OF ASSEMBLIES (METRIC)	BRAKE ASSEMBLY WITH DEFLECTOR	NOZZLE		STREAM HEIGHT	FLOW RATES AT STANDARD PRESSURE							MODEL NUMBER	
					LITERS PER HOUR (l/h) Throw Radius (meter)							PART NUMBER	
					1.75 bar	2 bar	2.25 bar	2.5 bar	2.75 bar	3 bar	3.25 bar	NPT THREAD	ACME THREAD
	9 Degree Red 1804999R		Light Blue #40 0.040" (1.016 mm) Item# 18116940B	20-23 in (50.8-58.4cm)	—	—	62	65	68	71	74	LF03N09R40	LF03A09R40
			Light Purple #45 0.045" (1.143 mm) Item# 18116945P	19-25 in (48.3-63.5cm)	67	72	76	80	84	88	91	A85301D9R40	A85303D9R40
			Dark Green #50 0.050" (1.270 mm) Item# 18116950G	21-29 in (53.3-73.6cm)	6.1	6.4	6.7	6.7	6.7	6.7	6.4	A85301D9R45	A85303D9R45
			FC1 0.35gpm (79.5 l/h) Item# 18212535	20-25 in (50.8 - 63.5 cm)	83	88	94	99	104	108	113	LF03N09R50	LF03A09R50
			FC3 0.43 gpm (97.7 l/h) Item# 18212543	20-25 in (50.8 - 63.5 cm)	6.4	6.4	6.7	6.7	6.4	6.4	6.4	A85301D9R50	A85303D9R50
					80							LF03N09RF1	LF03A09RF1
	9 Degree White 1804999W		Dark Green #50 0.050" (1.270 mm) Item# 18116950G	20-24 in (50.8-61cm)	5.5							A85301D9RF1	A85303D9RF1
			Light Yellow #55 0.055" (1.397 mm) Item# 18116955Y	17-25 in (43.2-63.5cm)	98							LF03N09RF3	LF03A09RF3
			Light Red #60 0.060" (1.524 mm) Item# 18116960R	17-25 in (43.2-63.5cm)	6.0							A85301D9RF3	A85303D9RF3
			FC2 0.50 gpm (113.6 l/h) Item# 18212550	20-25 in (50.8 - 63.5 cm)	—	—	94	99	104	108	113	LF03N09W50	LF03A09W50
					100	107	114	120	126	131	137	A85301D9W50	A85303D9W50
					6.4	6.7	7.3	7.3	7.0	7.6	7.6	LF03N09W55	LF03A09W55
	15 Degree Orange 180499150		Light Red #60 0.060" (1.524 mm) Item# 18116960R	17-25 in (43.2-63.5cm)	6.4	6.7	7.3	7.3	7.0	7.6	7.6	A85301D9W55	A85303D9W55
			FC2 0.50 gpm (113.6 l/h) Item# 18212550	20-25 in (50.8 - 63.5 cm)	118	126	134	141	148	154	161	LF03N09W60	LF03A09W60
					7.0	7.3	7.3	7.3	7.6	7.6	7.6	A85301D9W60	A85303D9W60
					114							LF03N09WF2	LF03A09WF2
					5.5							A85301D9WF2	A85303D9WF2
					—	—	94	99	104	108	113	LF03N09W50	LF03A09W50
	15 Degree Orange 180499150		Dark Green #50 0.050" (1.270 mm) Item# 18116950G	34-39 in (86.4-99.1cm)	—	—	94	99	104	108	113	LF03N15O50	LF03A15O50
			Light Yellow #55 0.055" (1.397 mm) Item# 18116955Y	36-42 in (91.4-106.7cm)	7.3	7.3	7.6	7.3	7.0	7.6	7.6	A85301D1550	A85303D1550
			Light Red #60 0.060" (1.524 mm) Item# 18116960R	33-41 in (83.8-104.1cm)	100	107	114	120	126	131	137	LF03N15O55	LF03A15O55
			FC2 0.50 gpm (113.6 l/h) Item# 18212550	30-42 in (76.2-106.7 cm)	7.6	7.3	7.3	7.3	7.3	7.3	7.3	A85301D1555	A85303D1555
					118	126	134	141	148	154	161	LF03N15O60	LF03A15O60
					7.3	7.6	7.6	7.6	7.6	7.3	7.3	A85301D1560	A85303D1560
			114							LF03N15OF2	LF03A15OF2		
			6.2							A85301D15F2	A85303D15F2		

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