

## Single- and Multi-Pattern Lake Management Aerators

## Advanced technology to enhance irrigation efficiency

Rain Bird Lake Management Aerators effectively work to maintain an ecological balance in lakes or ponds less than 15' (5 m) deep by adding dissolved oxygen through efficient vertical circulation of the water. This circulation helps to maintain an ecological balance, which in turn assures sufficient water quality. With the addition of dissolved oxygen into the water and the resulting convection patterns that reduce stratification, these surface aeration systems provide a number of practical and economic benefits. And, all aerator units are backed by Rain Bird® Customer Satisfaction Warranty.

## Features

### Single Pattern Aerators (LM Series)

- Available with 1-5 HP pumps.
- All LM units are factory assembled and shipped with power control center, 24-hour timer, and underwater cable (cable ordered separately with 50' minimum, in 25' increments).
- Corrosion-resistant stainless steel construction and high-density thermal plastics allows the unit to be installed in almost all water source types.
- Custom-built electric motor is designed to move high volumes of water and provide years of dependable service.
- Unique pumping chamber attachment on the motor housing allows high pumping rates for maximum circulation.
- Deflector plate provides an appealing display.
- Fine mesh screen prevents the intake of debris to allow the continuous flow of incoming water.
- Heavy-duty 304 stainless steel arms support a float filled with US Coast Guard-approved closed cell foam provides a robust and dependable design.
- Specially designed float rings allow the unit to ride level in the water.
- High-density polyethylene float exterior shell contains closed-cell polyethylene interior for maximum buoyancy.
- LM11 only -virtually unbreakable stainless steel chopper style prop.
- Nema 3R Power Control Center provides safe, reliable operation.

### Multi-Pattern Aerators (LMM Series)

- Available with ½ - ¾ HP pumps.
- All LMM units are factory assembled and shipped with power control center, 24-hour timer, and underwater cable (cable ordered separately with 50' minimum, in 25' increments).
- Manufactured entirely of stainless steel and thermal plastics to provide years of dependable service.
- Corrosion-resistant stainless steel debris screen prevents the intake of foreign objects to allow the continuous flow of incoming water, which ensures aesthetically pleasing spray patterns.
- Mini Power Center is encased in industrial-grade, non-corroding case to assure reliability.
- Interchangeable nozzle set included to create LM10, LM20, or LM11 spray pattern.
- Diffuser ring allows the spray pattern to be varied in height and diameter (LMM with LM10 and LM20 patterns only).
- Custom-built submersible, water-cooled, corrosion-resistant, stainless steel motor designed to run continuously.
- Impeller/Props are manufactured of corrosion-resistant polyphenylene oxide modified to work in most all types of water, salt solutions and acids.
- Components are in compliance with Safety Testing requirements.

## Models

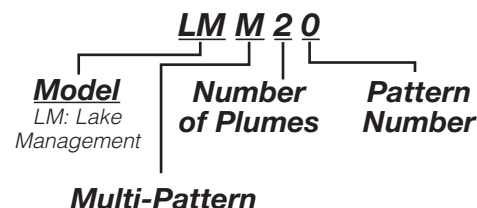
- **LM10:** Principal feature is a one-plume geyser-like spray pattern that rises high into the air.
- **LM11:** Well proportioned fan-shaped spray, is a perfect balance of form and function.
- **LM20:** The dual spray pattern is unique and operates at a lower pumping rate.
- **LM30:** Differentiating feature is its multi-dimensional three plume design.
- **LMM:** Spray pattern can be changed to LM10, LM20 or LM11.



## Optional Features

- Rain Bird light options are available to enhance the aesthetics of LM series aerators. Lighting systems run on 12-volt power and are available with 20 or 65-watt halogen bulbs. Stainless steel mounting brackets facilitate installation to achieve a variety of illumination effects.
- 10 and 12 gage cable is available and must be ordered separately (50' minimum in increments of 25 feet.)
- Colored lenses in red, blue, green and yellow.

### How to Specify/Order:





## Specifications

The unit shall be manufactured of corrosion-resistant, 18-8 stainless steel and high-density thermal plastics. The float for the lake management aerators shall have a green (LM Series) or black (LMM Series) exterior shell made of high-density thermal plastic polyethylene. The interior of the float shall be made of closed-cell polyethylene. All units shall be shipped with a minimum of 50' (15 m) of underwater cable (purchased separately in 25' increments). All Lake Management Aerators backed by the Rain Bird® Customer Satisfaction Warranty. Style selection and installation must be in accordance with the owner's manual.

### LM Series

Each unit shall be equipped with a custom-built electric motor with dynamically balanced rotors, operating at a maximum speed of 1800 RPM. The unit shall also have a ¼" nylon fine mesh water intake screen for LM10, LM20 and LM30 models only. Each model shall be shipped with a Nema 3R rated Power Control Center, which shall include ground fault interrupt (all units except 460V); magnetic starter; surge arrestor; power disconnect; and 24-hour on/off timer. All components shall be safety tested with UL and CSA listing; assembly tested and approved by ETL, ETL-C and CE.

### LMM Series

Each unit shall be equipped with a custom-built submersible, water-cooled, corrosion-resistant, stainless steel motor with dynamically balanced rotors. The unit shall be encased in a stainless steel housing. The screen shall be constructed of corrosion-resistant 18-8 stainless steel to efficiently prevent clogging. Each unit shall be equipped with a Mini Power Center that will enclose the 115V controls. This case measuring 5" x 5" x 4" and shall be constructed of an industrial-grade, non-corroding all plastic. 115V controls shall consist of 24-hour on/off timer and GFI. 230V units shall be enclosed in an 11" x 11" x 6" high-impact, corrosion-resistant thermal plastic, Nema rated type 3S. 230V unit controls shall consist of 24-hour on/off timer, fuse or circuit breaker protection and GFI. The Impeller/Props shall be manufactured of polyphenylene oxide, modified. Material is corrosion-resistant to most all types of water, salt solutions and acids.

All components shall be safety tested with UL and CSA listing; assembly tested and approved by ETL, ETL-C and CE.

### Rain Bird Corporation

Contractor Division

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

### Rain Bird Corporation

Commercial Division

6991 East Southpoint Road, Tucson, AZ 85706  
Phone: (520) 741-6100 Fax: (520) 741-6522

### 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](http://www.rainbird.com)

## Rain Bird® Lake Management Aerators Technical Specifications (LM Series)\*

Model	HP	Volts	Phase	Full Load in Amps	Spray Height in Feet	Spray Width in Feet	Shipping Weight in Lbs				
	1	115	1 ph	13.4	10 - 12	4	205				
	1	230	1 ph	6.8	10 - 12	4	205				
	2	230	1 ph	12	16 - 18	4	205				
	3	230	1 ph	13.7	20 - 21	4	210				
	3	230	3 ph	8	20 - 21	4	210				
	5	230	3 ph	14.4	23 - 24	4	215				
	1	115	1 ph	13.4	4	15	205				
	1	230	1 ph	6.8	4	15	205				
	2	230	1 ph	11	6	25	205				
	3	230	1 ph	12.8	7	30	210				
	3	230	3 ph	7.9	7	30	210				
	5	230	3 ph	14	8	35	215				
					O/S		I/S		205 205 205 210 210 215		
					H	W	H	W			
	1	115	1 ph	13.4	4	12	8	3			
	1	230	1 ph	6.8	4	12	8	3			
	2	230	1 ph	12.5	6	19	12	3			
	3	230	1 ph	14.3	8	23	16	3			
	3	230	3 ph	8.5	8	23	16	3			
	5	230	3 ph	14.8	9	26	18	3			
					O/S		Middle				
					H	W	H	W		H	W
	1	115	1 ph	13.4	3	11	5	7	8	1.5	205
	1	230	1 ph	6.8	3	11	5	7	8	1.5	205
	2	230	1 ph	12.3	4	15	7	10	12	1.5	210
	3	230	1 ph	14	6	18	8	11	15	1.5	210
	3	230	3 ph	8.2	6	18	8	11	15	1.5	210
	5	230	3 ph	14	7	24	10	12	16	1.5	215
					O/S		Middle		I/S		205 205 210 210 210 215
					H	W	H	W	H	W	

## Rain Bird® Lake Management Multi-Pattern Aerators Technical Specifications (LMM Series)\*

Pattern	HP	Voltage	Phase	Running Amp Draw	Spray Height	Spray Diameter
LM10♦	1/2	115	1 ph	12	12'	2'
	1/2	230	1 ph	6	12'	2'
	3/4	230	1 ph	8	15'	2'
LM11	1/2	115	1 ph	12	2.5'	12'
	1/2	230	1 ph	6	2.5'	12'
	3/4	230	1 ph	8	3.0'	19'
LM20♦	1/2	115	1 ph	12	I/S	O/S
		230	1 ph	6	8'	4'
		230	1 ph	8	8'	4'
	3/4	115	1 ph	12	I/S	O/S
		230	1 ph	6	8'	4'
		230	1 ph	8	9'	6'

## Lake Management Aerators Standard/Optional Equipment

	LM Series				LMM Series
	LM10	LM11	LM20	LM30	
Aerator Assembled	Std.	Std.	Std.	Std.	Std.
Power Control Center	Std.	Std.	Std.	Std.	Std.
Intake Screen	Std.	Optional	Std.	Std.	Std.
Lights	Optional (65 W only)	Optional (65 W only)	Optional (65 W only)	Optional (65 W only)	Optional (20 W only)
Power cable (50 feet)	Std.	Std.	Std.	Std.	Std.

\* Minimum Operating Depth: 40" (100 cm).

Specification data at motor speed of 1725 RPM @ 60 Hz.

Minimum shipping weight based on unit, 50' (15.24m) cable and power control center.

\* Minimum Operating Depth: 18" (45 cm).

Specification data at motor speed of 3450 RPM @ 60 Hz.

Unit Weight: 45 lbs. (21Kg) and includes power center, unit, spray patterns and 50' (15.24m) of underwater cable.

♦ Spray patterns will vary by adjusting the diffuser ring. Therefore, the figures given are averages. Spray patterns will also vary due to voltage drop, humidity and other relevant site situations.

HP = Horsepower  
ph = Phase

I/S = inner spray pattern  
O/S = outer spray pattern