



## MASTERS SERIES®

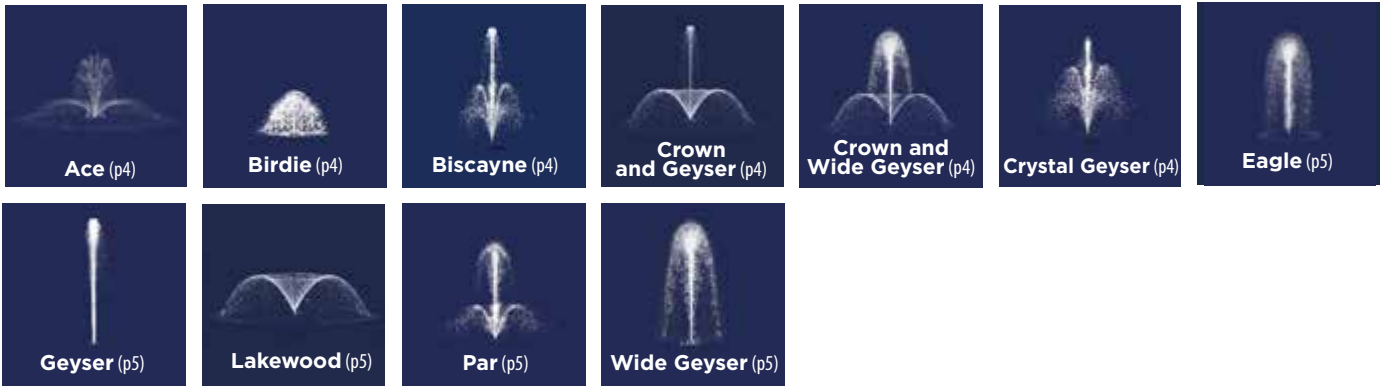
These revolutionary fountains are available in a wide variety of spray patterns. All Masters Series® (except Captiva & Kiawah) are interchangeable and provide you with the ability to change spray patterns. A flow straightener may be required. This flexibility give you the power to create dazzling waterscapes while improving water quality.

Masters Series® are high quality fountains that are designed to perform and built to last. Available in over 30 beautiful spray pattern choices. Sizes range from 1 to 10 HP in a variety of single phase and three phase, voltages at both 60 Hz and 50 Hz. All models (excuding 50 Hz) are shipped as packages. Packages include fountain, control panel, and specific lengths of underwater rated power cable. Masters Series are UL, cUL and CE listed for safety and backed by superior factory warranties.

# MASTERS SERIES SPRAY PATTERNS

## BASIC FLOW PATTERNS (BFP)

This group of patterns are easily interchanged with each other to create a variety of patterns.



## STRAIGHTENED FLOW PATTERNS (SFP)

This group includes patterns utilizing flow straightener technology and are easily interchanged with each other.



## ADJUSTABLE STRAIGHTENED FLOW PATTERNS (ASFP)

This group of patterns dimensions can be easily adjusted by the turning of the lock nut assembly. Patterns are interchangeable with any Straightened Flow Pattern.




## SPECIALTY PATTERNS

This popular Captive pattern utilizes a special nozzle assembly and is not interchangeable. The Kiawah high horsepower two-tier pattern utilizes a spray ring assembly and is not interchangeable.



### ACE


BASIC FLOW PATTERN (BFP)  
VERTICAL ONLY  
5 HP ACE



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft UPPER	4 x 8	6 x 8	8 x 10	9 x 12
HT X DIA ft LOWER	2 x 22	2 x 26	4 x 32	4.5 x 35
HT X DIA m UPPER	2 x 4.6	2.6 x 4	2.9 x 3.6	3.7 x 3.7
HT X DIA m LOWER	0.9 x 7.9	1.4 x 8.5	1.5 x 9.7	1.5 x 13.4

### BIRDIE

BASIC FLOW PATTERN (BFP)  
VERTICAL ONLY  
5 HP BIRDIE



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft	3 x 5	3.5 x 5	4.5 x 8	5 x 12
HT X DIA m	0.9 x 2.4	1.5 x 3	2.1 x 4.3	2.4 x 6.1

### BISCAYNE

BASIC FLOW PATTERN (BFP)  
VERTICAL ONLY  
3.5 HP BISCAYNE



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	11	14	16	20	25	32
HT X DIA ft LOWER	7 x 14	10 x 19	10 x 20	13 x 24	16 x 28	18 x 28
HT X DIA m UPPER	3.6	4	4.9	6.7	7.6	9.8
HT X DIA m LOWER	2.7 x 6.4	2.7 x 6.4	3 x 4.9	3.7 x 6.7	4.9 x 8.5	5.5 x 8.5

### CROWN & GEYSER

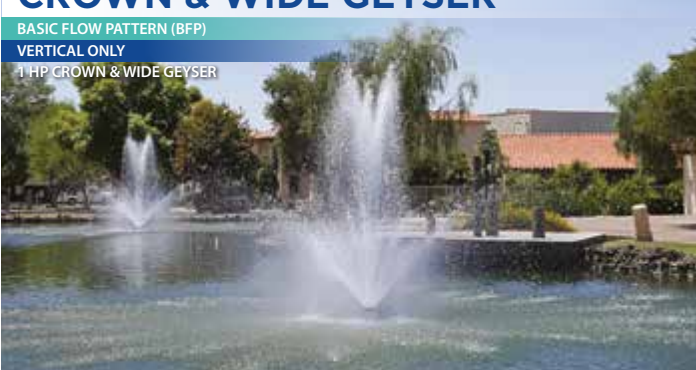
BASIC FLOW PATTERN (BFP)  
VERTICAL ONLY  
3.5 HP CROWN & GEYSER



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	12 x 2	15 x 2	20 x 2	22 x 2	27 x 2	31 x 2
HT X DIA ft LOWER	5 x 35	6 x 40	6 x 42	7 x 50	9 x 52	10 x 54
HT X DIA m UPPER	3.5 x .6	4.3 x .6	5.2 x .6	6.7 x .6	8.2 x .6	10.4 x .6
HT X DIA m LOWER	1.8 x 9.1	1.7 x 10.6	2.1 x 9.7	3.1 x 15.2	2.7 x 15.8	3 x 16.5

### CROWN & WIDE GEYSER

BASIC FLOW PATTERN (BFP)  
VERTICAL ONLY  
1 HP CROWN & WIDE GEYSER



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	12 x 4.5	15 x 4.5	20 x 4.5	22 x 4.5	27 x 5.5	31 x 6.5
HT X DIA ft LOWER	5 x 35	6 x 40	6 x 42	7 x 50	9 x 52	10 x 54
HT X DIA m UPPER	3.5 x 1	4.3 x 1	5.2 x 1	6.7 x 1.4	8.2 x 1.7	10.4 x 2.1
HT X DIA m LOWER	1.8 x 9.1	1.7 x 10.6	2.1 x 9.7	3.1 x 15.2	2.7 x 15.8	3 x 16.5

### CRYSTAL GEYSER

BASIC FLOW PATTERN (BFP)  
VERTICAL ONLY  
5 HP CRYSTAL GEYSER



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	15 x 26	17 x 30	19 x 30	22 x 32	26 x 34	30 x 34
HT X DIA m	4 x 6.4	5.2 x 6.7	5.5 x 7	6.7 x 10.8	7.8 x 10.2	9.6 x 10.2

## EAGLE

BASIC FLOW PATTERN (BFP)

VERTICAL ONLY

1 HP EAGLE



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	11 x 8	15 x 9	17 x 11	20 x 12	22 x 12	23 x 13
HT X DIA m	3.6 x 3.7	4.1 x 3.8	4.3 x 4	5.7 x 3.6	6.7 x 4	7 x 4

## GEYSER

BASIC FLOW PATTERN (BFP)

VERTICAL ONLY

10 HP GEYSER



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	18 x 2	20 x 2	24 x 2	28 x 2	34 x 2	38 x 2
HT X DIA m	4.9 x 0.9	5.6 x 0.9	5.9 x 0.9	7.6 x 0.9	10.4 x 0.6	12.2 x 0.6

## LAKWOOD

BASIC FLOW PATTERN (BFP)

VERTICAL ONLY

5 HP LAKWOOD



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	7 x 18	9 x 24	11 x 30	15 x 36	16 x 40	16.5 x 50
HT X DIA m	2.1 x 6.7	2.7 x 8.2	3.3 x 9.1	4.6 x 11.6	4.9 x 12.2	5 x 15.2

## PAR

BASIC FLOW PATTERN (BFP)

VERTICAL ONLY

5 HP PAR



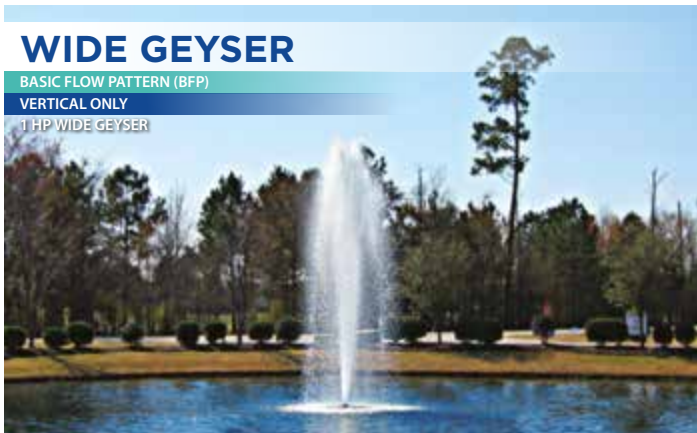
HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	6	8.5	13	15	17	20
HT X DIA ft LOWER	3 x 20	3.5 x 24	5 x 30	7 x 40	7 x 42	8 x 45
HT X DIA m UPPER	2	3.2	3.6	4.6	5.2	6.7
HT X DIA m LOWER	0.9 x 7.6	1.8 x 9.7	2 x 10.3	2.2 x 13.5	2.1 x 12.8	2.4 x 13.7

## WIDE GEYSER

BASIC FLOW PATTERN (BFP)

VERTICAL ONLY

1 HP WIDE GEYSER



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	16 x 10	20 x 10	25 x 10	28 x 10	32 x 10	36 x 10
HT X DIA m	4.3 x 1.2	5.2 x 1.8	6.1 x 2.4	7.3 x 3.1	9.7 x 3	11 x 3



### ARABELLA

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP ARABELLA

HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft UPPER	5.5 x 7	7 x 10	8.5 x 12	13 x 18
HT X DIA ft LOWER	2 x 24	4 x 35	4 x 38	5 x 55
HT X DIA m UPPER	1.8 x 2.4	2.4 x 3.6	3.5 x 4.9	4 x 5.5
HT X DIA m LOWER	0.9 x 7.9	1.1 x 8.2	1.4 x 11.6	1.5 x 16.8

### AUGUSTA

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL ONLY  
5 HP AUGUSTA

HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	9 x 20	11.5 x 24	13 x 30	15.5 x 35	17 x 45	23 x 60
HT X DIA m	2.4 x 4.9	2.9 x 6.1	4.1 x 9.1	4.7 x 13.7	5.2 x 13.7	7 x 18.3

### BAYSIDE

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP BAYSIDE

HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	9 x 11	11 x 14	13 x 16	16 x 20	20 x 25	24 x 28
HT X DIA ft LOWER	3 x 8	3 x 22	3 x 24	4 x 30	6 x 30	6 x 34
HT X DIA m UPPER	2.4 x 3	3 x 3.8	4 x 4.6	5.5 x 6.7	6.1 x 7.6	7.3 x 8.5
HT X DIA m LOWER	0.6 x 3.6	0.6 x 4	1.1 x 7.6	1.2 x 8.5	1.8 x 10.4	1.8 x 10.4

### BAYTREE

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP BAYTREE

HORSEPOWER	5
HT X DIA ft UPPER	23
HT X DIA ft MIDDLE	14 x 17
HT X DIA ft LOWER	7 x 25
HT X DIA m UPPER	7
HT X DIA m MIDDLE	5.2 x 5.2
HT X DIA m LOWER	3.6 x 8.8

### CHAMPION

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
3.5 HP CHAMPION

HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	7 x 20	9 x 24	10 x 30	15 x 37	19 x 50	24 x 56
HT X DIA m	3.2 x 8.5	3.6 x 8.8	4.6 x 10.3	5.5 x 13.4	5.8 x 15	7.3 x 17

### COLONIAL

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP COLONIAL

HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft UPPER	17	19	20	30
HT X DIA ft LOWER	8 x 22	10 x 26	12 x 35	22 x 60
HT X DIA m UPPER	4.3	4.4	5	9.1
HT X DIA m LOWER	2.7 x 7.3	3 x 7.6	3.3 x 6.4	6.7 x 18.7

## DIAMONDBACK

STRAIGHTENED FLOW PATTERN (SFP)

VERTICAL ONLY

5 HP DIAMONDBACK



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft	5 x 50	5 x 55	5 x 60	5 x 65
HT X DIA m	1.5 x 15.2	1.8 x 18.2	2.1 x 20.1	3.7 x 22.6

50Hz 60Hz

## DORAL

STRAIGHTENED FLOW PATTERN (SFP)

VERTICAL OR HORIZONTAL

5 HP DORAL



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft UPPER	8 x 10	10 x 12	11 x 14	13 x 18
HT X DIA ft LOWER	4 x 8	5 x 10	5 x 12	7 x 13
HT X DIA m UPPER	2.1 x 2.4	2.3 x 3	3.3 x 3.6	4 x 5.5
HT X DIA m LOWER	1.2 x 2	1.4 x 2.4	1.8 x 3	2.1 x 4

50Hz 60Hz

## DOUBLE EAGLE

STRAIGHTENED FLOW PATTERN (SFP)

VERTICAL OR HORIZONTAL

5 HP DOUBLE EAGLE



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft	18 x 5	23 x 5	25 x 5	35 x 5
HT X DIA m	4.6 x 1.5	5 x 1.5	6.7 x 1.8	7.6 x 2.4

50Hz 60Hz

## FIRESTONE

STRAIGHTENED FLOW PATTERN (SFP)

VERTICAL OR HORIZONTAL

3.5 HP FIRESTONE



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	11	13	15	18	21	24
HT X DIA ft MIDDLE	5 x 10	6 x 12	7.5 x 18	11 x 20	13 x 27	16 x 28
HT X DIA ft LOWER	2 x 18	3 x 20	4 x 24	5.5 x 28	6 x 40	8 x 65
HT X DIA m UPPER	3	3.5	5.2	6.1	6.4	10.3
HT X DIA m MIDDLE	1.5 x 3	1.7 x 3.2	2.1 x 4	3.1 x 6.1	4 x 8	4.9 x 8.4
HT X DIA m LOWER	0.6 x 3.3	0.5 x 3.6	0.6 x 4.6	1.1 x 8	1.7 x 12	2.4 x 19.8

50Hz 60Hz

## HALFMOON

STRAIGHTENED FLOW PATTERN (SFP)

VERTICAL ONLY

5 HP HALFMOON



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	6 x 26	8 x 30	10 x 34	13 x 36	14 x 38	15 x 40
HT X DIA m	1.7 x 7	2.1 x 7.9	3 x 9.1	3.9 x 11	4.3 x 11.6	4.6 x 12.2

50Hz 60Hz

## IMPERIAL

STRAIGHTENED FLOW PATTERN (SFP)

VERTICAL OR HORIZONTAL

5 HP IMPERIAL



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	9	11	13	15	16	19
HT X DIA ft MIDDLE	6 x 16	6.5 x 18	7 x 23	13 x 30	14 x 32	17 x 48
HT X DIA ft LOWER	1 x 25	1.5 x 28	2.5 x 28	5 x 36	5.5 x 40	7 x 50
HT X DIA m UPPER	2.7	3.3	4	4.6	4.9	5.8
HT X DIA m MIDDLE	1.8 x 4.9	2 x 5.5	2.1 x 7	4 x 9.1	4.3 x 9.8	5.2 x 14.6
HT X DIA m LOWER	0.3 x 7.6	0.5 x 8.5	0.8 x 8.5	1.5 x 11	1.7 x 12.2	2.1 x 15.2

50Hz 60Hz

## MEDINAH

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP MEDINAH



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	9 x 14	12 x 18	14 x 20	18 x 24	20 x 26	25 x 30
HT X DIA m	2.4 x 3.3	2.9 x 3.6	4 x 4.6	6 x 9	7 x 7.9	7.6 x 9.1

## MONTEREY

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL ONLY  
3.5 HP MONTEREY



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft UPPER	8	10	13	19
HT X DIA ft MIDDLE	5 x 9	7 x 10	11 x 13	13 x 15
HT X DIA ft LOWER	3 x 13	4 x 17	7 x 23	8 x 27
HT X DIA m UPPER	3.2	3.5	4.7	5.8
HT X DIA m MIDDLE	3 x 7	3.2 x 6.1	3.3 x 4.9	4 x 4.6
HT X DIA m LOWER	1.4 x 7.9	1.5 x 8.2	2 x 8.8	2.4 x 8.2

## PRESTWICK

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP PRESTWICK



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	9 x 10	10 x 12	12 x 14	13 x 18	16 x 32	20 x 46
HT X DIA ft LOWER	5 x 30	5 x 32	5 x 35	6 x 40	8 x 48	12 x 80
HT X DIA m UPPER	1.8 x 2.7	2.4 x 3	3.3 x 4.3	5.2 x 6.7	4.9 x 9.7	6.1 x 14
HT X DIA m LOWER	0.9 x 7	1.1 x 8.5	1.5 x 10.3	2.1 x 15.2	2.4 x 14.6	3.7 x 24.4

## RIVIERA

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP RIVIERA



HORSEPOWER	1	2	3 & 3.5	5
HT X DIA ft UPPER	15	20	21	30
HT X DIA ft MIDDLE	9 x 12	11 x 12	12 x 14	18 x 16
HT X DIA ft LOWER	3 x 10	4 x 10	4 x 12	9 x 20
HT X DIA m UPPER	4.3	4.7	5.3	9.1
HT X DIA m MIDDLE	2.24 x 3.3	2.4 x 2.4	3.6 x 4.3	5.5 x 4.9
HT X DIA m LOWER	0.9 x 2.4	1.8 x 4.6	2 x 4.9	2.7 x 6.1

## ROYAL

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
5 HP ROYAL



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	6 x 24	6.5 x 24	7.5 x 38	8.5 x 38	12.5 x 40	15 x 50
HT X DIA ft LOWER	3 x 30	3.5 x 32	4 x 38	4 x 42	4 x 40	5 x 60
HT X DIA m UPPER	1.4 x 6.1	1.8 x 6.7	2.4 x 11.6	2.6 x 11.6	3.8 x 12.2	4.6 x 15.2
HT X DIA m LOWER	0.6 x 6.7	0.9 x 8.8	1.2 x 11.6	1.2 x 12.8	1.2 x 12.2	1.5 x 18.3

## SOMERSET

STRAIGHTENED FLOW PATTERN (SFP)  
VERTICAL OR HORIZONTAL  
1 HP SOMERSET



HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	12	14	17	20	24	30
HT X DIA ft LOWER	6.5 x 16	7.5 x 18	9 x 22	11.5 x 25	12 x 30	12 x 30
HT X DIA m UPPER	3.6	4.3	5.2	6.1	7.3	9.1
HT X DIA m LOWER	2 x 4.9	2.3 x 5.5	2.7 x 6.7	3.5 x 7.6	3.7 x 9.1	3.7 x 9.1



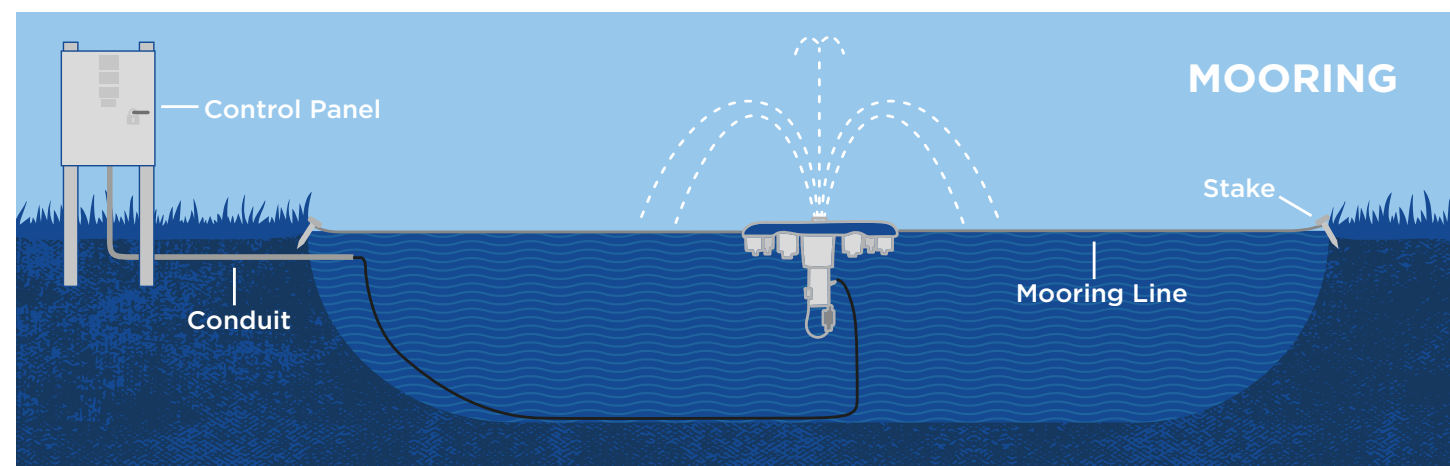
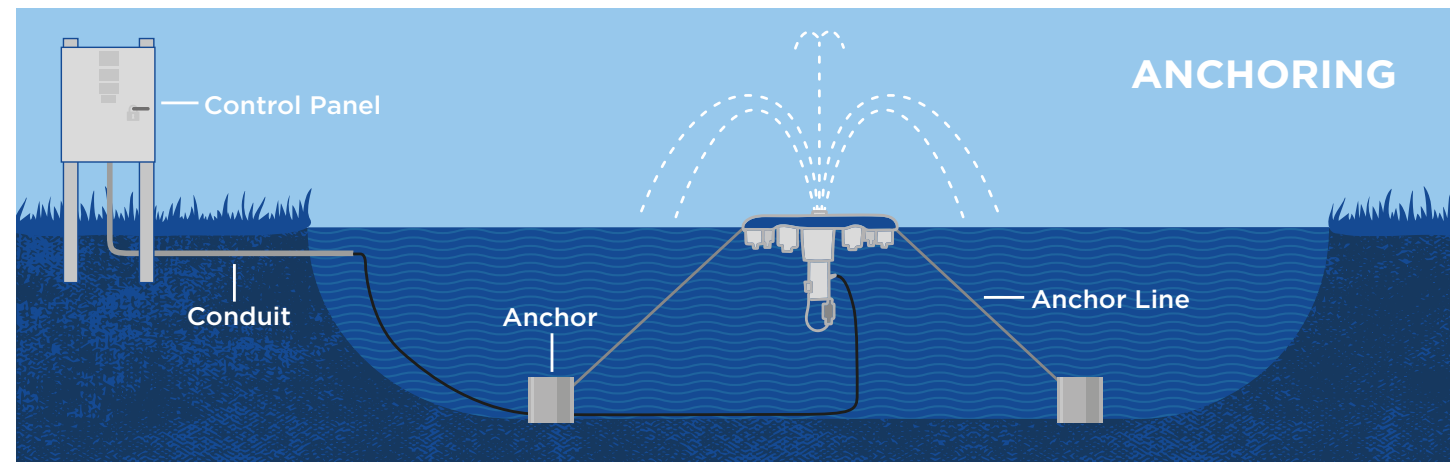
**TURNBERRY**  
 STRAIGHTENED FLOW PATTERN (SFP)  
 VERTICAL OR HORIZONTAL  
 3.5 HP TURNBERRY

HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft	5.5 x 15	7 x 18	8 x 20	10 x 23	12.5 x 28	15 x 35
HT X DIA m	1.8 x 4.9	2.3 x 5.5	3.2 x 7.3	4.6 x 9.8	3.8 x 8.5	4.6 x 10.7



**VALHALLA**  
 STRAIGHTENED FLOW PATTERN (SFP)  
 VERTICAL OR HORIZONTAL  
 5 HP VALHALLA

HORSEPOWER	1	2	3 & 3.5	5	7.5	10
HT X DIA ft UPPER	10	12	16	18	20	26
HT X DIA ft MIDDLE	7 x 14	8 x 20	10 x 20	12 x 20	14 x 22	16 x 22
HT X DIA ft LOWER	3 x 35	4 x 35	4 x 40	5 x 45	7 x 40	8 x 60
HT X DIA m UPPER	3.2	3.6	5.2	6.1	6.1	8.5
HT X DIA m MIDDLE	2.1 x 4	2.4 x 4.6	3.3 x 6.4	3.7 x 9.1	4.3 x 6.7	4.9 x 6.7
HT X DIA m LOWER	1.2 x 8.2	1.5 x 9.1	1.8 x 12.2	1.9 x 12.8	2.1 x 12.8	2.4 x 18.3

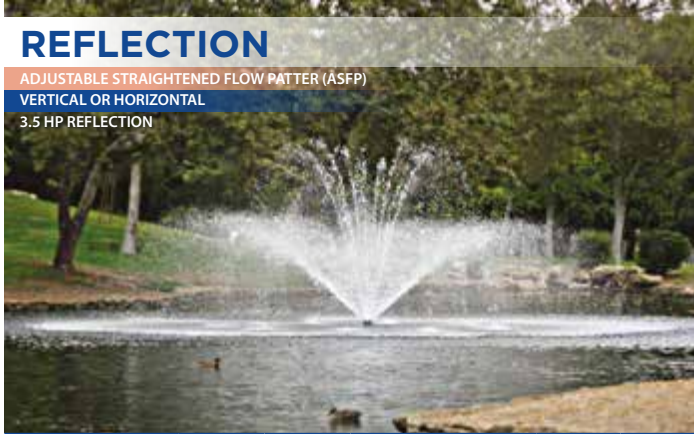


AquaMaster® is here to help! Let our professional distributors help you make the best decision for your pond's specific needs.



## REFLECTION

ADJUSTABLE STRAIGHTENED FLOW PATTERN (ASFP)  
 VERTICAL OR HORIZONTAL  
 3.5 HP REFLECTION



HORSEPOWER		1	2	3 & 3.5	5	7.5	10
60HZ	HT X DIA ft UPPER	7 x 16	8 x 22	12 x 26	13 x 16	14 x 22	16 x 24
	HT X DIA ft LOWER	3 x 22	3 x 30	3 x 30	4 x 37	4 x 40	5 x 46
50HZ	HT X DIA m UPPER	2.3 x 6.1	2.6 x 7.3	3.3 x 8.5	4.3 x 8.5	4.3 x 6.7	4.9 x 7.3
	HT X DIA m LOWER	0.8 x 7.9	0.9 x 8.8	1.1 x 9.7	2.4 x 14	1.2 x 12.2	1.5 x 14

## SANIBEL

ADJUSTABLE STRAIGHTENED FLOW PATTERN (ASFP)  
 VERTICAL OR HORIZONTAL  
 5 HP SANIBEL



HORSEPOWER		1	2	3 & 3.5	5	7.5	10
60HZ	HT X DIA ft	11 x 14	14 x 17	16 x 18	19 x 20	20 x 16	22 x 18
	HT X DIA m	3.5 x 4.3	3.6 x 4.6	4.3 x 6.4	5.8 x 7.6	6.1 x 4.9	6.7 x 5.5

AquaMaster® products are even more dramatic at night with the addition of a Night Glow LED or RGBW Lighting System. Check out our Night Glow section that makes the perfect addition to your new fountain.



## CAPTIVA

SPECIALTY PATTERN

VERTICAL ONLY

5 HP CAPTIVA



The 1-5 HP requires 6" additional depth & uses a float tube intake screen assembly.

50Hz 60Hz	HORSEPOWER	5 HP CAPTIVA					
		1	2	3 & 3.5	5	7.5	10
	HT X DIA ft	9 x 4	12 x 4	15 x 5	19 x 7	23 x 8	25 x 8
	HT X DIA m	2.7 x 1.2	3.1 x 1.2	4.6 x 1.2	5.8 x 2.1	7 x 2.4	7.6 x 2.4

## KIAWAH

SPECIALTY PATTERN

10 HP KIAWAH



50Hz 60Hz	HORSEPOWER	10 HP KIAWAH	
		7.5	10
	HT X DIA ft UPPER	28	30
	HT X DIA ft LOWER	15 x 40	18 x 50
	HT X DIA m UPPER	8.5	9.1
	HT X DIA m LOWER	4.6 x 12.2	5.5 x 15.2



### CONTROL PANEL COMPONENTS

- Outdoor rated, lockable enclosure constructed of galvanized steel powder coated gray
- Standard enclosure size 16" x 16" x 6" for 1-5HP and 24" x 20" x 6" for 7.5-10HP (1Ph) 30" x 24" x 8" for 7.5-10HP (3Ph)
- Overcurrent protection
- Ground fault protection
- Motor contactor and overload
- Capacitors (single phase only)
- Digital timers with battery backup
- LED lighting circuit included in all control panels
- Custom Control Panels for multiple units and options available



## MASTERS SERIES® WARRANTY

### DOMESTIC

1-5 HP: 5 Years Parts and Labor  
7.5-10 HP: 4 Years Parts and Labor

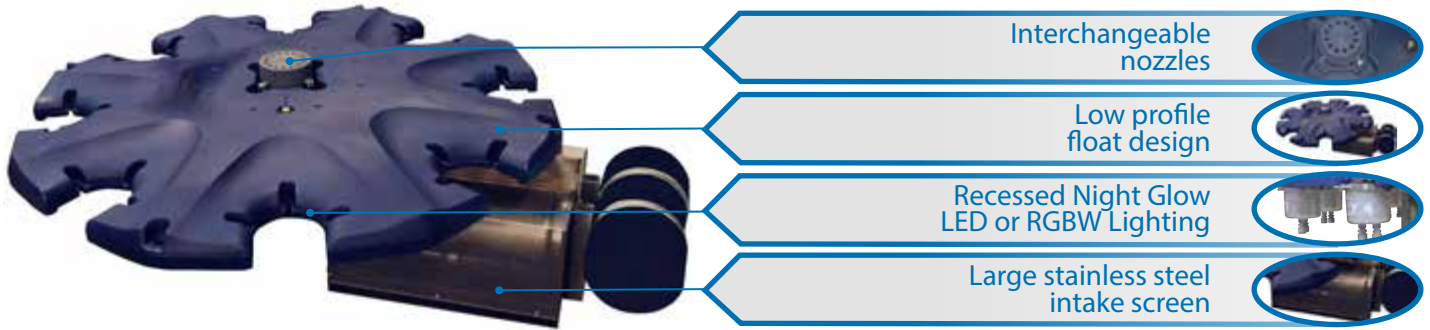
### INTERNATIONAL

1-5 HP: 5 Years Parts and 1 Year Labor  
7.5-10 HP: 3 Years Parts and 1 Year Labor

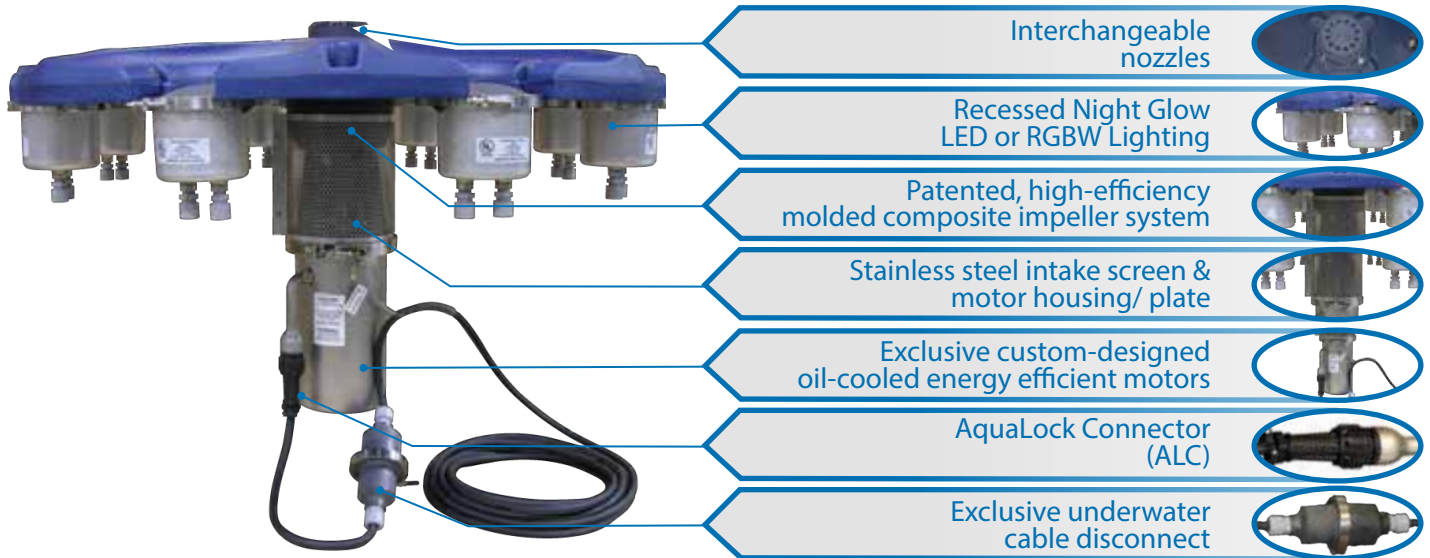
*Warranties subject to change. Please contact AquaMaster® for most current warranties.*

# MASTERS SERIES® DESIGN TYPES

## 1 - 5 HP HORIZONTAL DESIGN 16" minimum operating depth



## 1 - 5 HP STANDARD VERTICAL DESIGN 3ft minimum operating depth



## 7.5 - 10 HP CART DESIGN 4ft minimum operating depth

