

# Portable Sump Pump

**M** series

[Spare parts and material of pump could be made by request.]

## FEATURES

1. Motor housing is constructed of stainless steel. Is compliant to standard IEC IP68. Housing resists wear and corrosion.
2. There is a single phase motor with a standard thermal protector (protects windings).
3. There is a Vortex impeller which resists clogging or jamming by providing an open flow path.
4. Impeller is constructed of strengthened Nylon composite or an optional 316 stainless steel.
5. Pump is easily installed and easily maintained.
6. All stainless steel components are 316SS and resists weak-acid and weak-alkalinity wastewater.
7. Ceramic vs Carbon is the standard mechanical seal for sump applications silicon carbide for tougher sewage applications.

## APPLICATION

1. Compatible applications are as follows: residential/light commercial sewage and sump basins, dewatering flooded areas, pond pumps, etc.
2. Pump is designed to handle solids, weak-acid and weak-alkalinity wastewater.
3. Optional strainer is great for sump applications and dewatering.

## ATTENTION

1. Do not run pump below minimum water level.
2. Pump is not designed to run dry.
3. If liquids are corrosive, specify at time of order.

## MATERIAL AND STANDARD TABLE

Discharge diameter		1.5" · 2" · 3"	
Liquid	Temperature	0°C ~ 40°C ( 32°F ~ 104°F )	
	Application	Household sewage water, fresh water fowl water, sewer sewage water, industrial wastewater, public water, weak-acid and weak-alkalinity sewage water, non-corrosive liquid	
	The lowest depth	∇30 M	
Pump	Structure	Impeller	Semi-open Centrifugal Impeller
		Seal	Single Mechanical Seal
	Material	Upper Cover	Ductile Iron
		Bearing	Ball Bearing
		Impeller	NYLON-66 · PP+Fiber / 316SS / Optional
		Volute Casing	Ductile Iron · 316SS
		Seal Bracket	Ductile Iron / NYLON-66 · 316SS / PP+Fiber
		Bottom Plate	Ductile Iron / NYLON-66 · 316SS
		Lubricant	ISO VG. #32
		Seal	H · L
K · Q	Silicon Carbide / Silicon Carbide		
Motor	Type	Submersible oil type	
	Insulation class	E class(120 °C)	
	Frequency	50HZ / 60Hz	
	Pole/Rotation	2P/2850rpm / 3450rpm	
	Phase/Volts	1 φ /110V / 220V · 3 φ /220V / 380V	
	Material	Casing	304SS · 316SS
		Main Shaft	403SS · 316SS
Hose Nipple		PE	
Cable		Standard VCT / Optional	

\*Spare parts and material of pump could be made by request.

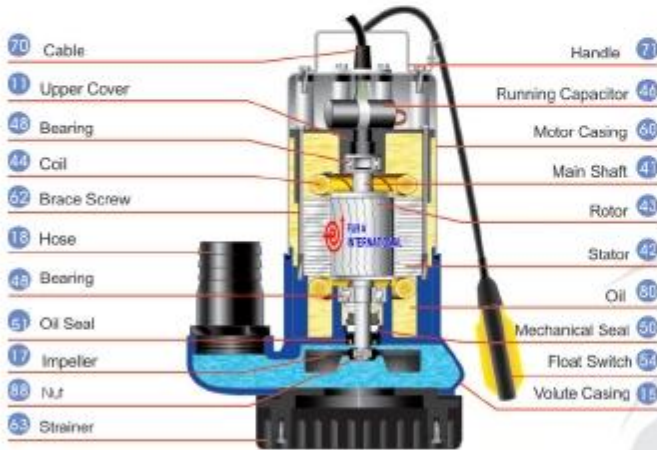
## FLOAT SWITCH OPERATION DRAWING



※Take heed of pump's cable not entangling with switch float's to keep the efficiency of liquid control when installing pumps.

## STRUCTURAL DRAWING

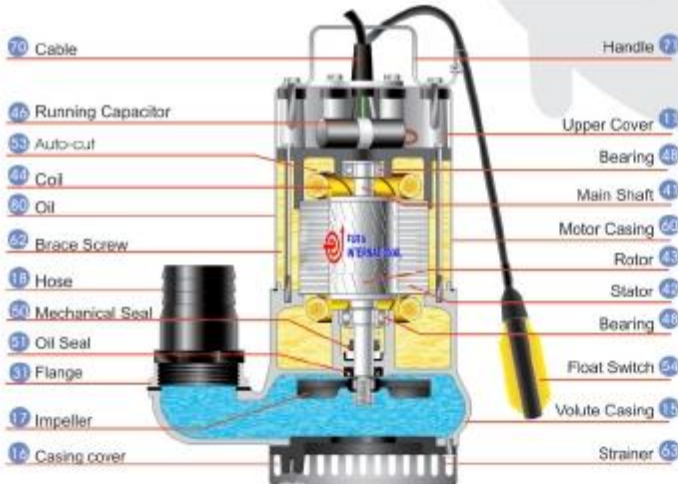
### ◎ SERIES



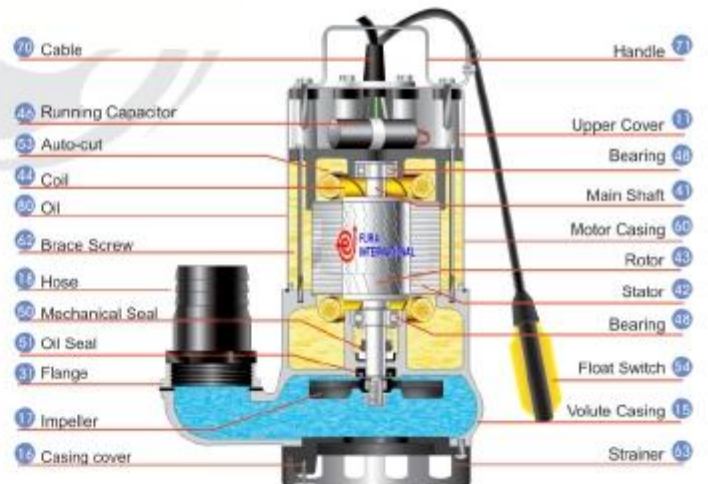
### ○ SERIES



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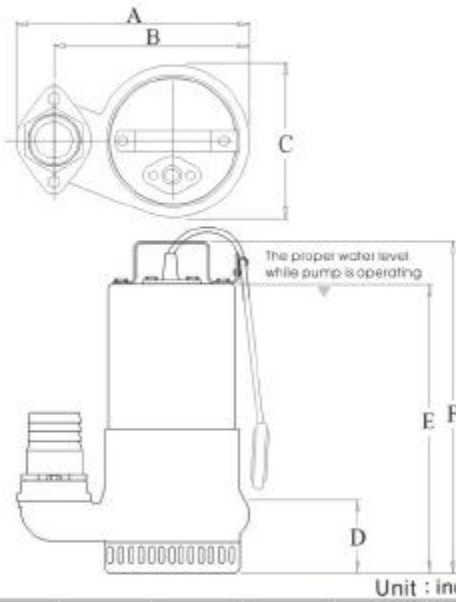


## Quality Inspection

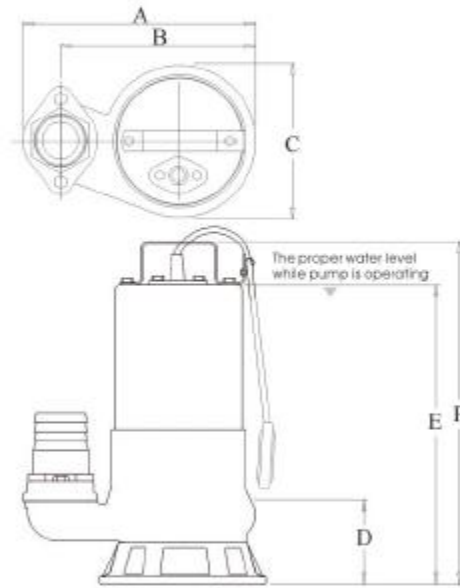


# Portable Sump Pump

## ■ DIMENSION



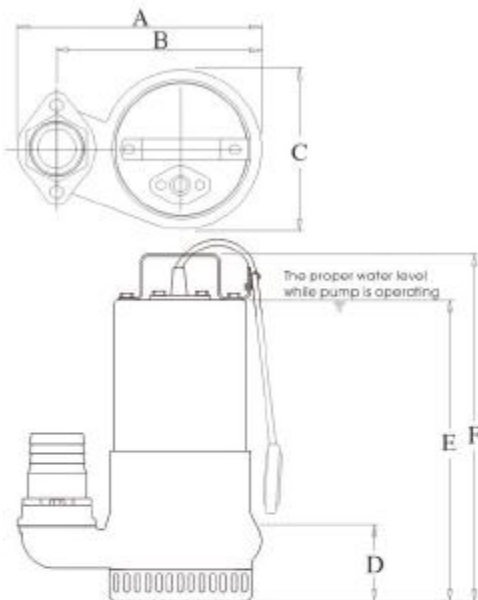
Unit : inches



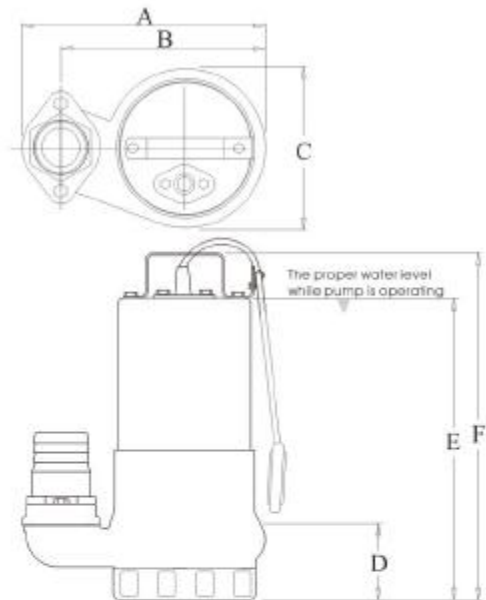
Unit : inches

TYPE	A	B	C	D	E	F
C-1000(A)	7.68	6.50	5.51	2.36	9.45	11.02
C-1050(A)	8.86	7.48	5.51	2.95	10.43	12.00
C-3050	8.86	7.48	5.51	2.95	10.43	12.00
C-1100(A)	11.42	9.51	8.27	4.72	13.78	15.75
C-3100	11.42	9.51	8.27	4.72	13.78	15.75
C-3200	14.96	12.20	8.27	4.72	14.76	16.93

TYPE	A	B	C	D	E	F
I-1050(A)	9.05	7.68	6.30	3.54	11.22	12.79
I-3050	9.05	7.68	6.30	3.54	11.22	12.79
I-1100(A)	11.42	9.25	8.66	4.72	14.17	16.14
I-3100	11.42	9.25	8.66	4.72	14.17	16.14
I-3200	15.55	12.60	8.66	4.72	15.16	16.14



Unit : inches



Unit : inches

TYPE	A	B	C	D	E	F
E-1000(A)	7.48	6.30	5.31	1.97	9.64	11.22
E-1050(A)	8.86	7.48	5.31	3.54	10.63	13.19
E-3050	8.86	7.48	5.31	3.54	10.63	13.19
E-1100(A)	11.42	9.25	7.48	4.72	14.17	15.75
E-3200	11.42	9.25	7.48	4.72	14.17	15.75

TYPE	A	B	C	D	E	F
O-1050(A)	8.86	7.48	5.31	3.54	11.02	13.19
O-3050	8.86	7.48	5.31	3.54	11.02	13.19
O-1100(A)	11.42	9.25	7.48	4.72	14.17	15.75
O-3100	11.42	9.25	7.48	4.72	14.17	15.75
O-3200	11.81	9.64	7.87	4.72	15.16	16.93



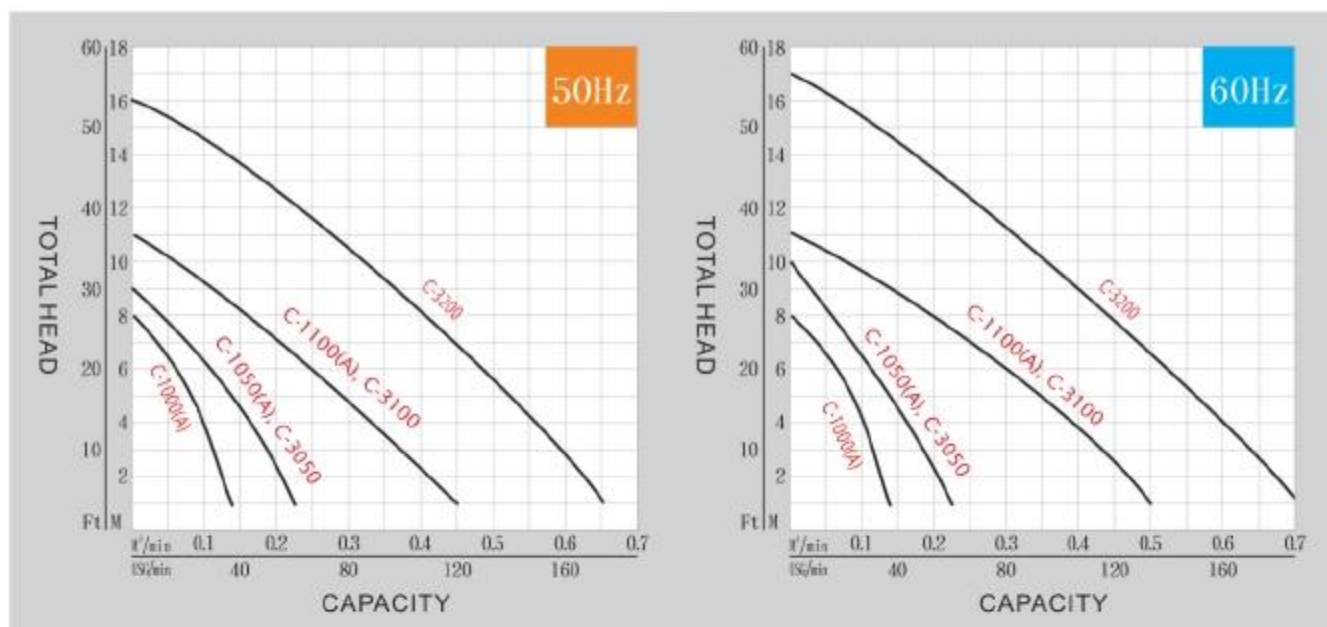
C-1000(A)

C-1050(A), C-3050

C-1100(A), C-3100

C-3200

## PERFORMANCE CURVE



## SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Type	Frequency	Phase	Voltage	Power		Caliber		Pole/Rotation	Std. Head		Std. Flow		Max. Head		Max. Flow		Weight
TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P/rpm	Ft	Ft	GPM	GPM	Ft	Ft	GPM	GPM	Pnd
C-1000(A)	50 60	1Ø	110/220	1/3	0.25	1 1/2"	40	2P / 2850 / 3450	13.12	13.12	26.42	26.42	26.25	26.25	36.98	36.98	17.64
C-1050(A)	50 60	1Ø	110/220	1/2	0.4	2"	50	2P / 2850 / 3450	19.68	19.68	29.06	29.06	29.52	32.80	58.12	58.12	22.05
C-3050	50 60	3Ø	220/380	1/2	0.4	2"	50	2P / 2850 / 3450	19.68	19.68	29.06	29.06	29.52	32.80	58.12	58.12	22.05
C-1100(A)	50 60	1Ø	110/220	1	0.75	3"	80	2P / 2850 / 3450	22.96	22.96	52.83	66.04	36.09	36.09	18.88	32.09	46.30
C-3100	50 60	3Ø	220/380	1	0.75	3"	80	2P / 2850 / 3450	22.96	22.96	52.83	66.04	36.09	36.09	18.88	32.09	46.30
C-3200	50 60	3Ø	220/380	2	1.5	3"	80	2P / 2850 / 3450	32.80	32.80	84.53	92.46	52.50	52.50	71.71	184.92	59.52

# Portable Sewage Pump

I series

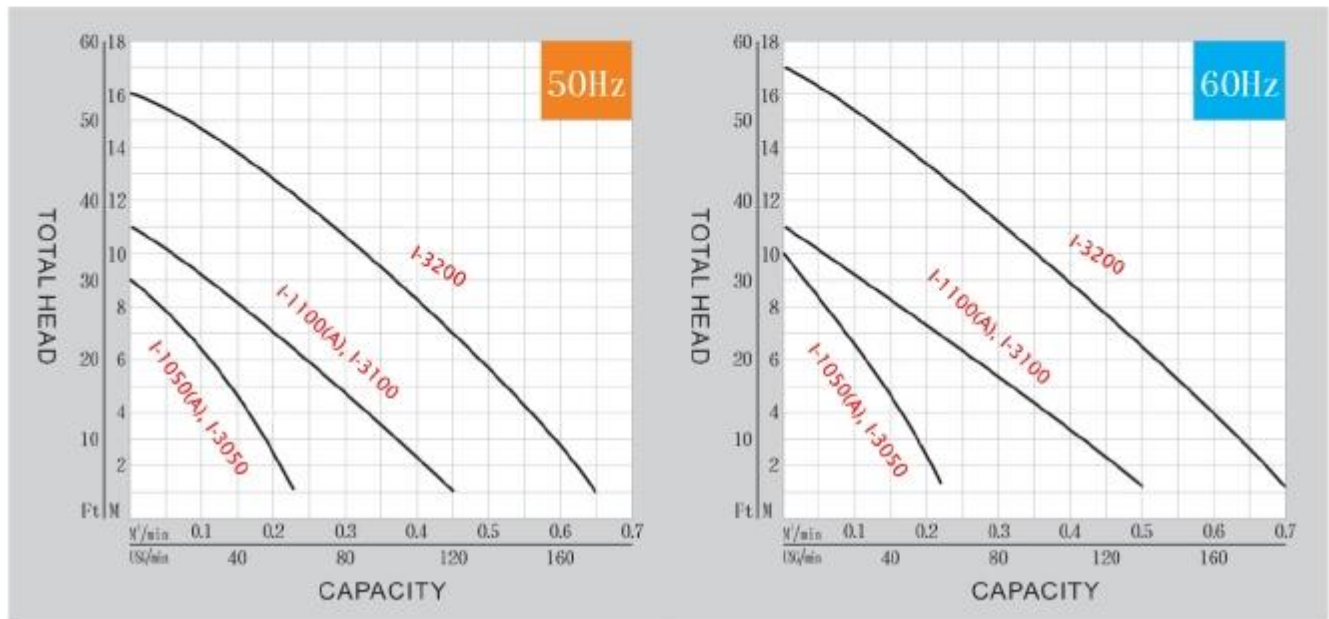


I-1050(A), I-3050

I-1100(A), I-3100

I-3200

## PERFORMANCE CURVE



## SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Type	Frequency	Phase	Voltage	Power	Caliber	Pole/Rotation	Std.Head	Std.Flow	Max.Head	Max.Flow	Weight							
TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P/rpm	Ft	GPM	Ft	GPM	Pnd					
I-1050(A)	50	60	1Ø	110/220	1/2	0.4	2"	50	2P / 2850 / 3450	19.68	19.68	29.05	29.05	29.53	32.80	58.12	58.12	22.05
I-3050	50	60	3Ø	220/380	1/2	0.4	2"	50	2P / 2850 / 3450	19.68	19.68	29.05	29.05	29.53	32.80	58.12	58.12	22.05
I-1100(A)	50	60	1Ø	110/220	1	0.75	3"	80	2P / 2850 / 3450	22.96	22.96	52.83	66.04	36.08	36.08	18.88	32.09	48.50
I-3100	50	60	3Ø	220/380	1	0.75	3"	80	2P / 2850 / 3450	22.96	22.96	52.83	66.04	36.08	36.08	18.88	32.09	48.50
I-3200	50	60	3Ø	220/380	2	1.5	3"	80	2P / 2850 / 3450	32.80	32.80	84.53	92.46	52.49	55.77	71.71	84.92	59.52



E-1000(A)



E-1050(A), E-3050



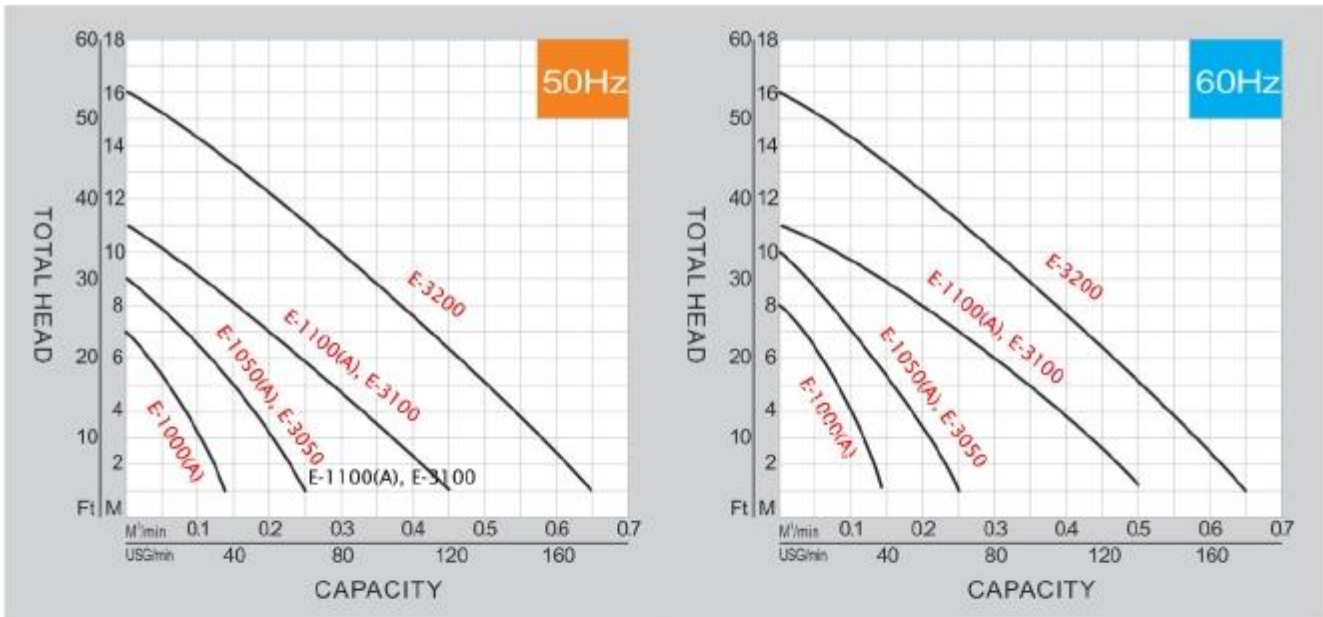
E-1100(A), E-3100



E-3200

E-1100(A), E-3100

## PERFORMANCE CURVE



## SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Type	Frequency	Phase	Voltage	Power	Caliber	Pole/Rotation	Std. Head	Std. Flow	Max. Head	Max. Flow	Weight		
TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P/rpm	Ft	GPM	Ft	GPM	Pnd
E-1000(A)	50 60	1Ø	110/220	1/3	0.25	1 1/2"	40	2P / 2850 / 3450	13.12 13.12	21.13 26.42	22.96 26.25	36.98 36.98	17.64
E-1050(A)	50 60	1Ø	110/220	1/2	0.4	2"	50	2P / 2850 / 3450	16.40 19.64	39.62 34.34	29.53 32.81	66.04 66.04	22.05
E-3050	50 60	3Ø	220/380	1/2	0.4	2"	50	2P / 2850 / 3450	16.40 19.64	39.62 34.34	29.53 32.81	66.04 66.04	22.05
E-1100(A)	50 60	1Ø	110/220	1	0.75	3"	80	2P / 2850 / 3450	22.96 22.96	52.83 66.04	36.09 36.09	18.88 32.08	41.89
E-3100	50 60	3Ø	220/380	1	0.75	3"	80	2P / 2850 / 3450	22.96 22.96	52.83 66.04	36.09 36.09	18.88 32.08	41.89
E-3200	50 60	3Ø	220/380	2	1.5	3"	80	2P / 2850 / 3450	32.81 32.81	7.92 7.92	52.50 52.50	171.71 171.71	52.91

# Stainless Steel Sump Pump 316SS

O series



O-1050(A), O-3050

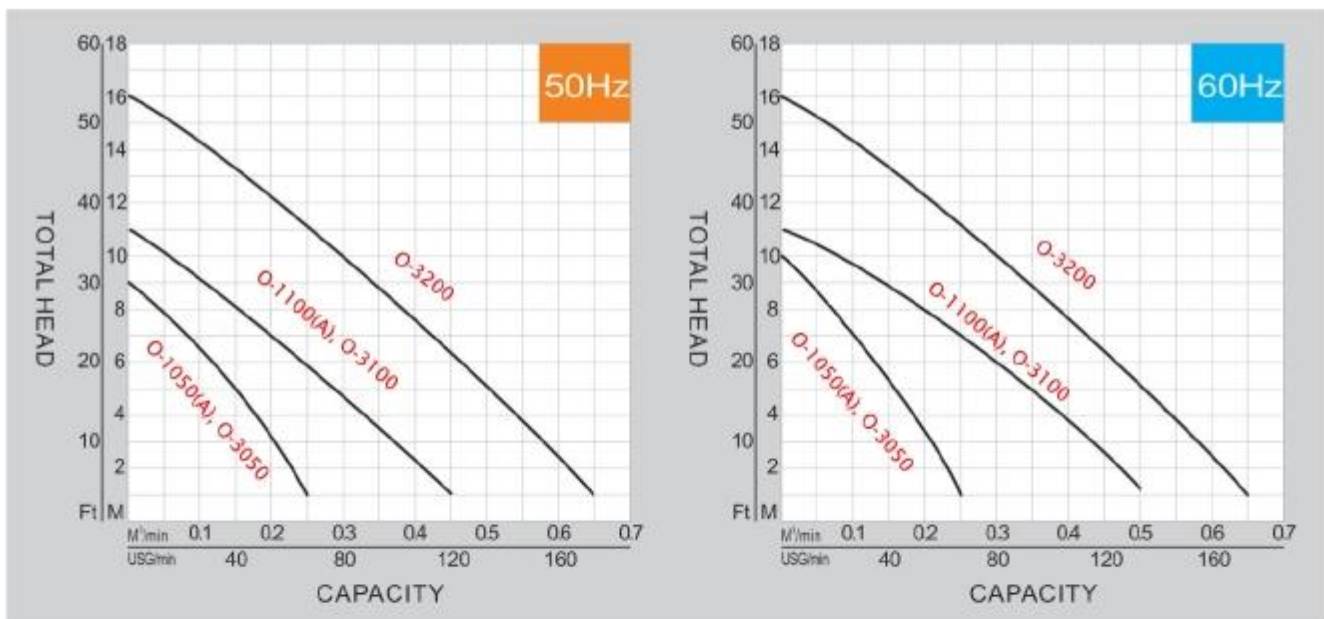


O-1100(A), O-3100



O-3200

## PERFORMANCE CURVE



## SPECIFICATION

※ (A) means single-phase motor can be installed with the float switch.

Type	Frequency	Phase	Voltage	Power		Caliber		Pole/Rotation	Std. Head		Std. Flow		Max. Head	Max. Flow	Weight		
TYPE	Hz	PH	VOLT	HP	KW	Inch	mm	P/rpm	Ft	GPM	Ft	GPM	Ft	GPM	Pnd		
O-1050(A)	50	60	110/220	1/2	0.4	2"	50	2P / 2850 / 3450	16.40	19.68	39.62	34.34	29.53	29.53	66.04	66.04	22.04
O-3050	50	60	220/380	1/2	0.4	2"	50	2P / 2850 / 3450	16.40	19.68	39.62	34.34	29.53	29.53	66.04	66.04	22.04
O-1100(A)	50	60	110/220	1	0.75	3"	80	2P / 2850 / 3450	22.96	22.96	52.83	66.04	36.09	36.09	18.89	32.08	41.89
O-3100	50	60	220/380	1	0.75	3"	80	2P / 2850 / 3450	22.96	22.96	52.83	66.04	36.09	36.09	18.89	32.08	41.89
O-3200	50	60	220/380	2	1.5	3"	80	2P / 2850 / 3450	32.80	32.80	79.25	79.25	52.49	52.49	71.71	71.71	52.91