

# **Par-Max Series**

## **Freshwater Delivery Pump** Model: 31395-4012-3A

This document provides technical information relating to this specific Jabsco model. General information, references and further resource locations are also included.

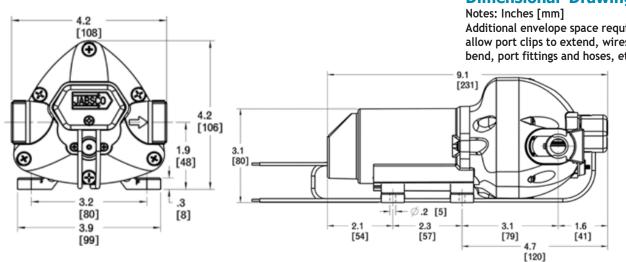
Jabsco pumps are designed to be durable and highperforming - capable of providing years of satisfactory service in a variety of marine applications.

### **Features:**

- Enclosed motor •
- Integrated pressure switch •
- Vibration and noise reducing mounting •
- Self-priming •
- Runs dry without damage •

### **Contents:**

Pump Unit:	PARMAX 3 12V 3GPM 40PSI
	(PARMAX 3 12V 11LPM 2.8BAR)
Port Fittings:	2 x 1/2" (13mm) Straight Hosebarb
Strainer:	Inline Quick Connect; 40 mesh
Trigger Nozzle:	Not applicable
Adapter 1:	Not applicable
Adapter 2:	Not applicable
Hosecoil:	Not applicable
IOM:	Included (PN 81000475)
Carton type:	4 Color Aftermarket
Master pack qty:	6



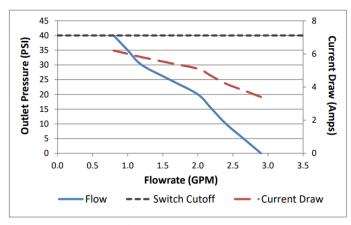
## **Dimensional Drawing**

Additional envelope space required to allow port clips to extend, wires to bend, port fittings and hoses, etc.

ieneralUpper Housing*:Glass-filled polypropyleneart Number:31395-4012-3ALower Housing*:Glass-filled polypropylenetfermarket replacement:31395-4012-3ALower Housing:Glass-filled polypropylenepeplaces (closest matches):31395-0392DiaphragmDiaphragm*:Sontoprenepplication:Marine Water Pressure SystemCheck Valves*:EPDMesign:3 Chamber DiaphragmSwitch Diaphragm*:EPDMQuick Connect PortsBypass Diaphragm*:EPDMNoise Danpening BaseplateThermal Motor Protection (TCO)PH Seals*:EPDMmerral Motor Protection (TCO)Baseplate:N/A - stide in rubber feetMotor Casing:Erclosed in protective plastic casingydraulic Performance(at nominal voltage)Electrical Performance (at nominal voltage)pen Flowrate:3 GPM open flow (11.3 LPM)Nominal Voltage:12 VDCressure Switch Cut-Off:40 PSI (2.8 BAR)Nominal Voltage:12 VDCax Operating Pressure:40 PSI (2.8 BAR)Fuse Size:10 Amps (not included)ax Inlet Pressure:30 PSI (2.1 BAR)Fuse Size:10 Amps (not included)uid Temperature Range:32*F - 140*F (0°C - 60°C)Uty Cycle:Intermittent (See heat-rise chart)uid Temperature Range:YesOther InformationMarineCM:YesYesOperating Environment:MarineCM:YesYesIPX6Carton Dimensions:15.5x6x5.5" (394x15zx140mm)morty Gorgin:China<	Specifications:		Materials (*designates wetted path)	
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Switch DiaphragmSwitch Diaphragm*:EPDMguick Connect PortsBypass Diaphragm*:EPDMTENV Permanent Magnet MotorPH Seals*:EPDMNoise Dampening BaseplatePH Fasteners:Stainless SteelThermal Motor Protection (TCO)Baseplate:N/A - slide in rubber feetMotor Casing:Enclosed in protective plastic casingydraulic Performance(at nominal voltage)pen Flowrate:3 GPM open flow (11.3 LPM)ressure Switch Cut-Off:40 PSI (2.8 BAR)ax Operating Pressure:30 PSI (2.1 BAR)ax Inlet Pressure:30 PSI (2.1 BAR)tternal Bypass:Yesuid Temperature Range:32°F - 140°F (0°C - 60°C)elf-Priming Capability:Up to 10 ft (3 m) dry primeun-Dry Capable:YesCM:YesCM:Yes0 8846 lgnitionYesotatetete:YesNoning Yo Origin:ChinaTS Code:8413,50,0050	Replaces (closest matches)	: 31395-0095 31395-0392	Diaphragm*:	Santoprene
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Jun-Dry Capable:YesOther InformationGomplianceOperating Environment:MarineE:YesOperating Environment:MarineCM:YesAmbient Temp Range: $32^{\circ}F - 140^{\circ}F (0^{\circ}C - 60^{\circ}C)$ IP Rating:IPX60 8846 Ignition rotected:YesCarton Dimensions: $15.5x6x5.5" (394x152x140mm)$ Master Pack Dimensions:19x16x12" (483x406x305mm)TS Code:8413.50.0050Weight: $3.2 (1.5 \text{ kg})$	Fluid Temperature Range:	32°F - 140°F (0°C - 60°C)	Leads:	12" (305mm), 16 AWG (1.5mm^2)
ComplianceOther InformationE:YesOperating Environment:MarineCM:YesAmbient Temp Range: $32^\circ$ F - 140°F (0°C - 60°C)O 8846 IgnitionIP Rating:IPX6rotected:YesCarton Dimensions:15.5x6x5.5" (394x152x140mm)ountry of Origin:ChinaMaster Pack Dimensions:19x16x12" (483x406x305mm)TS Code:8413.50.0050Weight:3.2 (1.5 kg)	Self-Priming Capability:	Up to 10 ft (3 m) dry prime	Wire Connection:	Stripped Wire
E:YesOperating Environment:MarineCM:YesAmbient Temp Range: $32^\circ$ F - 140°F (0°C - 60°C)O 8846 IgnitionIP Rating:IPX6rotected:YesCarton Dimensions: $15.5x6x5.5"$ (394x152x140mm)ountry of Origin:ChinaMaster Pack Dimensions: $19x16x12"$ (483x406x305mm)TS Code:8413.50.0050Weight: $3.2$ (1.5 kg)	Run-Dry Capable:	Yes		
E:YesOperating Environment:MarineCM:YesAmbient Temp Range: $32^\circ$ F - 140°F (0°C - 60°C)O 8846 IgnitionIP Rating:IPX6rotected:YesCarton Dimensions:15.5x6x5.5" (394x152x140mm)ountry of Origin:ChinaMaster Pack Dimensions:19x16x12" (483x406x305mm)TS Code:8413.50.0050Weight:3.2 (1.5 kg)	Compliance		Other Information	
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TS Code: 8413.50.0050 Weight: 3.2 (1.5 kg)	Protected:	Yes	Carton Dimensions:	15.5x6x5.5" (394x152x140mm)
	Country of Origin:	China	Master Pack Dimensions:	19x16x12" (483x406x305mm)
<b>UPC Code:</b> 671880841801	HTS Code:	8413.50.0050	Weight:	3.2 (1.5 kg)
			UPC Code:	671880841801

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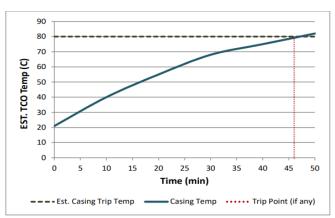
#### Flowcurve -



Representative curve of unit operated at nominal voltage Performance will vary somewhat unit to unit

Switch cut-off represents the point on the flowcurve at which the integrated pressure switch will turn off the pump

#### Heat-Rise -



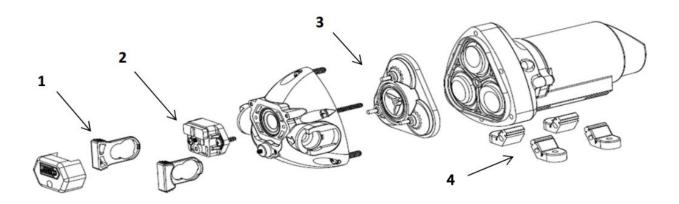
Tested @ ambient temp of 70F (21.1C) @ max run pressure Trip point shown is casing temp at time of TCO trip

If there is concern about the ability of the pump to run continuously for long periods of time then in-application testing is highly recommended.

## Pump Service Kits & Spares:

ITEM	PART NUMBER	CONTENTS
1. Port Clips	30647-1000	2 port clips per kit
2. Switch Kit	18916-1040	Switch assembly, cover, and switch diaphragm
3. Check Valve Assembly	20407034	Check valve housing with suction and discharge check valves installed
4.Baseplate/Mounting Feet	20717001A	Rubber mounting feet (qty 4)

## **Exploded View:**



## Accessories (see website for further info):

Item	Kit PN	Description	Notes	
Washdown Trigger Negales	30703-1000-6	Regular (6-Pack)	Quick release interface, includes female hose end adapters	
Washdown Trigger Nozzles	30703-1001-6	Deluxe (6-Pack)	Quick release interface, includes female hose end adapters	
Washdown Hose Coils	31910-1225	Regular	25' x .35" ID (6.2m x 9mm) Hosecoil	
	31910-1226	Deluxe (Heavy duty/larger ID)	25' x 1/2" ID (6.2m x 13mm) Hosecoil	
Freshwater Delivery System	30573-0003	0.65 Liter tank, reinforced plastic	Used to smooth out flow, reduce cycling for freshwater	
Accumulator Tanks	30573-0000	1 Liter tank, reinforced plastic	water pressure systems. See website for more details. Do	
Accumulator failes	18810-0000	2 Gal tank, coated steel	not use with variable speed.	
	46400-0030	In-line, Bayonet style, QC	QC = Quick Connect	
	46400-9500	90 degree 3-5 GPM QC	Place before inlet of the pump so as to filter the incoming	
Strainers (Required in all	46400-0711	90 degree 6 GPM QC	water and protect the check valves and pressure switch	
applications)	46400-0003	In-line, 3/8" Hosebarb	from getting clogged.	
	46400-0002	In-line, 1/2" Hosebarb	Other options available as well. See website for more	
	46400-0000	In line, 3/4" Hosebarb	detail.	
	1877K-2222S	2-5 GPM Models: 1/2" Hosebarb	Part numbers listed are straight port configuration	
	1877K-2242S	2-5 GPM Models: 1/2" Threaded	Quantity 2 per except GHT	
	1877K-3222S	2-5 GPM Models: 3/4" Hosebarb	GHT = Garden Hose Thread (gty 1)	
Port Fittings	1877K-3211S	2-5 GPM Models: 3/4" GHT	Threaded = NPS Threads	
	1877K-2342S	6 GPM Models: 1/2" Threaded		
	1877K-3322S	6 GPM Models: 3/4" Hosebarb	For 90 degree Elbow models replace the S with an E	
	1877K-3311S	6 GPM Models: 3/4" GHT	Not all models have 90 degree equivalents	
Washdown Deck Fitting	31911-0000	Stainless Steel Deck Fitting	Quick release mount for washdown hose on deck	
Aquafilta (water pressure	59000-1000	Freshwater filtration system	Fillonly	
systems)	22000-1000		EU only	

## **Marine Application Notes:**

### Washdown -

Used for on-demand spray to clean anchors, buoys, fishing areas, etc. Typically, the higher the flow and the higher the pressure the better. Sometimes used with a Y valve to serve a dual purpose of livewell circulation. Common accessories include strainers, trigger nozzles, hoses, and deck mount fittings. Sometimes plumbed off of the livewell inlet to reduce number of thru-hull fittings.

### Freshwater Delivery Pumps -

Installed to provide on-demand flow and pressure of freshwater to galleys, showers, washing machines, etc. Typical rule of thumb for sizing is 1 GPM per outlet. 40-60 psi (2.8 - 4.1 Bar) options provide similar pressure to that in a home on land. These pumps are equipped with a bypass which enables smoother flow and decreases cycling. Common accessories include strainers, water pressure inlet regulators, and accumulator tanks.

### Shower-Drain/Livewell/General Purpose -

These pumps are configured without a pressure switch and are used for a variety of different purposes including removal of drain water from showers or the circulating/transfer of water in bait tanks.

### Auxiliary Bilge/General Purpose -

Configured without a pressure switch and with elastomers specifically chosen to provide greater chemical compatibility and protection against fluids such as diesel fuel and motor oils.

## **Available Jabsco Options**

In addition to the unit described in this datasheet Jabsco also offers the following configurations (will vary somewhat by region and model type) and options to suit above applications:

Voltages:	12 & 24 VDC options
Flowrate Range:	1 - 6 GPM (3.8 - 22.7 LPM)
Switch Setting Range:	25 - 70 PSI (1.7 - 4.8 Bar)
Pump Configurations:	Washdown ("kit" versions include a hose-coil)
	Freshwater Delivery Pumps
	Shower-Drain/Livewell/Bilge/General Purpose Pumps
OEM/Special Options:	We can configure specific product or kitting levels upon request. Minimum annual volume requirements will apply. Please send us an inquiry and we will evaluate.

### **Installation and Operation**

For guidance on proper installation and operation of this pump, as well as for any warnings or cautions involving use, please consult the appropriate IOM for the pump. Printed IOM's are supplied with the pumps and are also available online.

## **Resources & Contact Information**

IOM:	On website; hard copies with pumps	Customer Service:	Refer to contact info at our website
Warranty:	Information included in IOM	Website:	www.xylem.com/Jabsco

Note: Specifications provided for guidance only. We reserve the right to change specifications without prior notice.



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