Johnson Pump®



MARINE CATALOG

Pumps & Accessories for Marine Applications

SPXFLOW®



Johnson Pump®

Renowned for advanced impeller technology and other key innovations since 1968, Johnson Pump Marine (part of the SPX FLOW group) drives forward pump engineering for the marine application segment. Serving both leisure and commercial vessels, Johnson Pump Marine manufactures high-efficiency products for either initial OEM out-fitting or subsequent after-market installation. Among these items are engine cooling pumps, bilge and aerator pumps, water pressure system pumps, high-pressure deck-washing pumps and kits, clutch pumps, toilets, wastewater handling pumps and circulation pumps, plus numerous other related accessories and fittings. Offering continued reliability in even the most difficult of conditions, Johnson Pump Marines' products deliver maximum effectiveness, while drawing minimal power and supporting low noise operation. Through them, the long-term upkeep of vessels can be maintained at the highest levels and, furthermore, they promote the comfort and safety of owners, crew, and passengers. Many Johnson Pump Marine products are also applicable for use in mobile homes, camper vans, etc.

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WATER PRESSURE SYSTEMS & WASHDOWN PUMPS

Johnson Pump Marine's new Aqua Jet II Pumps are built to excel in harsh saltwater environments. This next-generation pump delivers powerful performance, smooth operation, and unmatched corrosion resistance, with the flexibility today's boaters demand.

Johnson Pump has designed its system around the workhorse Aqua Jet II diaphragm pump to deliver pressurized water efficiently.

The Aqua Jet II five-chamber diaphragm pump provides excellent water pressure onboard. This versatile pump is ideal for deck wash solutions on both small and medium-sized leisure and commercial boats, as well as potable drinking water systems for mobile homes, campers, and summer cottages.

Quiet and pulsation-free even at low speeds, the Aqua Jet II is both efficient and compact. These pumps are particularly suitable where low amperage and reduced sound levels in relation to water flow are essential—such as in shower and galley applications. The integrated pressure switch automatically turns the pump on and off when the tap is opened or closed. It operates in both fresh and seawater and is fully self-priming.



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11 ACCESSORIES

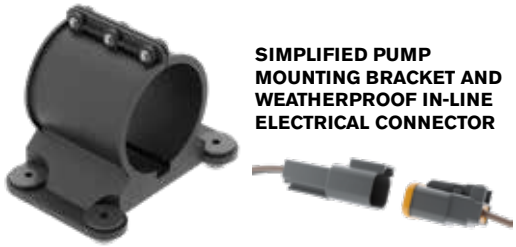
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Built to Last:

Engineered with a dual-layer surface treatment—E-coating followed by powder coating—the Aqua Jet II is built to withstand the toughest marine conditions. Its compact, flexible bracket design allows for versatile installation, while KlickTite fittings enable tool-free assembly and inspection. The proven 5-chamber diaphragm system ensures reliable flow with quiet, efficient operation.

Common markets:

- Small and medium sized pleasure boats
- Smaller commercial charter fishing, crabbing, and other work vessels
- Mobile homes and other land-based installations



SIMPLIFIED PUMP MOUNTING BRACKET AND WEATHERPROOF IN-LINE ELECTRICAL CONNECTOR

Common applications:

- Water pressure systems (fresh water)
  - Taps, Dish washers, ice makers, drinking water faucets
  - Showers
- Wash Down and Rinse Down Solutions / cleaning (usually raw water)
  - Bait / fish station clean up
  - Deck / anchor / cockpit and transom clean up
- Regulatory cleansing requirements for invasive species on trailer boats

FEATURE	BENEFITS
5-Chamber Diaphragm Design	Self priming up to 2.5 m and can run dry
	Quiet and pulsation-free operation compared to less chambers
Pressure Switch	Automatic operation
KlickTite Port Connection	Easy installation and maintenance
Corrosion-Resistant Design	Withstands harsh conditions thanks to e-coating and powder coating
Dry-Running Ability	Reliable performance even if water levels are low
Thermal Overload Protection	Protection against overheating, extending pump life
High Torque & High RPM Motor	High pressure - WD: 73 psi / 5 bar & WPS: 41 psi / 2.8 bar
Diaphragm	Santoprene (All)
Valves	WPS: EPDM / WD: Nitrile
Warranty	3-Years
PC-ABS Plastic Bracket	Removable pump for easy installation, maintenance, and winterization, also allows for easy pump rotation
Inlet Strainer	Built-in KlickTite for easy inlet installation
	Protect the pump from debris and extend its service life
In-line Deutsch connectors	Weatherproof in-line electrical connector for easy installation maintenance or upgrade

Aqua Jet II Water Pressure Systems (WPS)

The five-chamber Aqua Jet II WPS series provides a reliable core for small boat and recreational vehicle water pressure systems. Compared to conventional three- or four-chamber diaphragm pumps, the Aqua Jet II delivers significantly lower noise and reduced water pulsation. For optimal performance, it is recommended to install WPS pumps with an accumulator tank. Always use a PUMProtector inlet strainer before the pump intake. Both the Flow Master and WD pumps are supplied with preinstalled filters, whereas filters for other WPS pumps must be purchased separately.

	1.1	2.4 / 2.9	3.5	4.0 / 5.2	Flow Master
					
	WPS 1.1 GPM	**WPS 2.4 / 2.9 GPM**	**WPS & WD 3.5 GPM**	**WPS & WD 4.0 / 5.2 GPM**	**WPS Flow Master**
Length	6.5 in / 165 mm	7.36 in / 187 mm	8.7in / 221 mm	8.74 in / 222 mm	8.78 in / 223 mm
Width	3.85 in / 98 mm	7.79 in / 198 mm	8.3 in / 211 mm	8.23 in / 209 mm	8.23 in / 209 mm
Height	2.55 / 65 mm	4.33 in / 110 mm	4.53 in / 115 mm	4.4 in / 112 mm	4.4 in / 112 mm
Weight	1.28 lbs / 0.58 kg	3.50 lbs / 1.6 kg	5.29 lbs / 2.4 kg	5.51 lbs / 2.5 kg	5.73 lbs / 2.6 kg
Diaphragm	Santoprene (All)				
Valves	WPS: EPDM / WD: Nitrile				
Body	PP/PPA				
Motor	40W	85W	WPS: 85W / WD 120W	WPS: 100W / 150W WD: - - / 185W	150W
Bracket	Integrated feets	PC-ABS			
Bracket Hole Pattern	Width: 3.0 in / 77 mm Length: 2.16 in / 55 mm 0.18 in / Ø4.6 mm	Width: 4.25 in / 108 mm | Length: 2.5 in / 63.5 mm | Ø 0.20 in / Ø 5.2 mm			
Wire Size	18 AWG / 0.82 mm²	16 AWG / 1.31 mm²		14 AWG / 2.08 mm²	
Wire Length	12 in / 0.3 m	39.37 in / 1.0 m			

Part No.	Description	Capacity	Pressure Cut Off*	Voltage	Fuse Size	Connection**
10-22020-101	Aqua Jet WPS 1.1 GPM 12 V 2.4 bar	1.1 GPM / 4.2 l/min	Cut-In: 25 psi / 1.7 bar Cut-Off: 35 psi / 2.4 bar	12 V	3.5 A	⅜" Hose Barb
10-25007-03	Aqua Jet II WPS 2.4 GPM 12 V BSP 2.8 bar	2.4 GPM / 9 l/min	Cut-In: 25 psi / 1.7 bar Cut-Off: 41 psi / 2.8 bar	12 V	10 A	2 Pcs of ⅜" BSP & ½" Hose Barb 2 Pcs of ½" BSP & ¾" Hose Barb
10-25007-04	Aqua Jet II WPS 2.4 GPM 24 V BSP 2.8 bar			24 V	5 A	
10-25008-03	Aqua Jet II WPS 2.9 GPM 12 V BSP 2.8 bar	2.9 GPM / 11 l/min		12 V	10 A	
10-25008-04	Aqua Jet II WPS 2.9 GPM 24 V BSP 2.8 bar			24 V	5 A	
10-25009-03	Aqua Jet II WPS 3.5 GPM 12 V BSP 2.8 bar	3.5 GPM / 13 l/min		12 V	10 A	
10-25009-04	Aqua Jet II WPS 3.5 GPM 24 V BSP 2.8 bar			24 V	5 A	
10-25010-03	Aqua Jet II WPS 4.0 GPM 12 V BSP 2.8 bar	4.0 GPM / 15 l/min		12 V	10 A	
10-25010-04	Aqua Jet II WPS 4.0 GPM 24 V BSP 2.8 bar			24 V	5 A	
10-25011-03	Aqua Jet II WPS 5.2 GPM 12 V BSP 2.8 bar	5.2 GPM / 20 l/min		12 V	15 A	
10-25011-04	Aqua Jet II WPS 5.2 GPM 24 V BSP 2.8 bar			24 V	8 A	
10-25012-03	Aqua Jet II Flow Master 5.0 GPM 12 V 3.5 bar	5.0 GPM / 19 l/min	Cut-In: < 50 psi / 3.5 bar Cut-Off: 50 psi / 3.5 bar	12 V	15 A	
10-25012-04	Aqua Jet II Flow Master 5.0 GPM 24 V 3.5 bar			24 V	8 A	

*Cut off pressure 30 psi /2.1 bar and 20 psi / 1.4 bar available on request as optional accessories or alternate pump model.
**Various BSP and NPT-KlickTite™ connection types are offered as optional accessories.

AQUA JET II FLOW MASTER WPS 5.0 – VARIABLE FLOW

The whisper quiet self-priming Aqua Jet II Flow Master WPS 5.0 pump incorporates state-of-the-art electronics to automatically control pump speed. The digital controller adjusts water flow as the demand is increased and decreased while maintaining a very smooth delivery. The unique variable flow feature of the Aqua Jet II Flow Master WPS 5.0 pump makes it a smart choice for better flow, lower noise and less amp draw. PUMProtector Inlet Strainer included. Recommended to install with an accumulator tank.



ADDITIONAL ADD-ONS FOR AQUA JET II WPS



▪INLET STRAINER

For more information see page 10.

▪ACCUMULATOR TANK

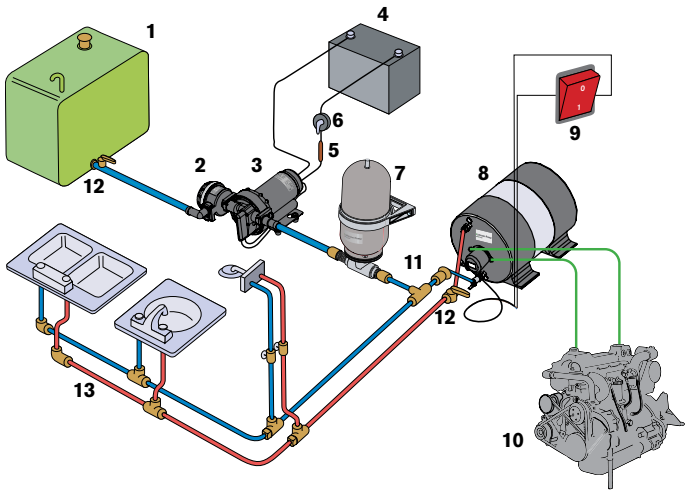
2L & 5L Accumulator tank
For more information see page 11.



Fresh Water Handling

Components included in a complete Water Pressure Systems:

1. Water tank
2. PUMProtector inlet strainer
3. Aqua Jet Water Pressure Pump
4. Battery
5. Fuse
6. Switch
7. Accumulator tank
8. Water heater
9. ON/OFF bipolar switch
10. Motor
11. Check valve
12. Shut-off valve
13. Shower & sinks





Install Water Pressure Systems for perfect water pressure in leisure boats, recreational vehicles, trains, buses and summer homes.



Aqua Jet II - Compact All-In-One Water Pressure Pump Units

	3.5 / 5.2	10.4	2.9 / 3.5
			
	UNO	**DUO**	**UNO MAX**
Length	14.37 in / 365 mm	14.37 in / 365 mm	16.0 in / 406 mm
Width	8.98 in / 228 mm	8.98 in / 228 mm	5.47 in / 139 mm
Height	9.80 in / 249 mm	14.5 in / 368 mm	13.4 in / 340 mm
Weight	11.7 lbs / 5.3 kg	16.5 lbs / 7.5 kg	10.6 lbs / 4.8 kg

Part No.	Part No. USA	Description	Capacity	Pressure Cut Off*	Voltage	Fuse Size	Connection**
10-25003-01		Aqua Jet II Uno 2L WPS 3.5 GPM 12 V 2.8 bar	3.5 GPM / 13 l/min	41 psi / 2.8 bar	12 V	10 A	Inlet ½" BSP & ¾" Hose Barb Outlet ¾" Hose Barb
10-25003-02		Aqua Jet II Uno 2L WPS 3.5 GPM 24 V 2.8 bar	3.5 GPM / 13 l/min	41 psi / 2.8 bar	24 V	5 A	
10-25004-01		Aqua Jet II Uno 2L WPS 5.2 GPM 12 V 2.8 bar	5.2 GPM / 20 l/min	41 psi / 2.8 bar	12 V	15 A	
10-25004-02		Aqua Jet II Uno 2L WPS 5.2 GPM 24 V 2.8 bar	5.2 GPM / 20 l/min	41 psi / 2.8 bar	24 V	8 A	
10-25005-01		Aqua Jet II Duo 2L WPS 10.4 GPM 12 V 2.8 bar	10.4 GPM / 40 l/min	Top Pump: 30 psi / 2.1 bar Bottom Pump: 41 psi / 2.8 bar	12 V	25 A	Inlet ¾" Hose Barb Outlet ¾" Hose Barb
10-25005-02		Aqua Jet II Duo 2L WPS 10.4 GPM 24 V 2.8 bar	10.4 GPM / 40 l/min	Top Pump: 30 psi / 2.1 bar Bottom Pump: 41 psi / 2.8 bar	24 V	15 A	
10-25006-01		Aqua Jet II Uno MAX 2L WPS 2.9 GPM 12 V 2.8 bar	2.9 GPM / 11 l/min	41 psi / 2.8 bar	12 V	10 A	Inlet ½" BSP & ¾" Hose Barb Outlet ¾" Hose Barb
10-25006-02		Aqua Jet II Uno MAX 2L WPS 3.5 GPM 12 V 2.8 bar	3.5 GPM / 13 l/min	41 psi / 2.8 bar	12 V	10 A	
	61123	1.1 GPM WPS Pump 12 V with 15" Faucet	1.1 GPM / 4.2 l/min	35 psi / 2.4 bar	12 V	5 A	⅜" Hose Barb
	09-CD65582	15" Chrome Plated Faucet					

*Cut off pressure 30 psi /2.1 bar and 20 psi / 1.4 bar available on request as optional accessories or alternate pump model.

**Various BSP and NPT-KlickTite™ connection types are offered as optional accessories.

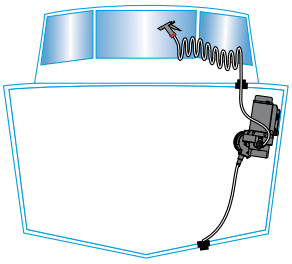


61123



09-CD65582

Aqua Jet II Washdown Pump Systems (WD)



The quiet and pulsation-free Aqua Jet II five-chamber diaphragm washdown pumps provide the perfect washdown solution for cleaning recreational equipment.

With a powerful pressure of up to 73 psi / 5 bar, clean-up becomes faster and easier than ever before. To suit different requirements, we offer kits at various levels—ranging from a straightforward replacement pump to a complete wash-down kit that includes everything you need for a full solution.

Both NPT and BSP connections included.



AQUA JET II WASHDOWN - REPLACEMENT PUMP 3.5 AND 5.2 GPM

Part No.	Description	Capacity	Pressure Cut Off	Voltage	Fuse Size	Connection	Kit Includes
10-25013-13	Aqua Jet II WD 3.5 GPM 12 V Replacement Pump	3.5 GPM / 13 l/min	73 psi / 5 bar	12 V	20 A	2 Pcs of ⅜" BSP & ½" Hose Barb 2 Pcs of ½" NPT & ¾" Hose Barb 1 Pcs of ¾" Small Garden Hose Thread	Pump with filter
10-25014-13	Aqua Jet II WD 5.2 GPM 12 V Replacement Pump	5.2 GPM / 20 l/min					
10-25014-14	Aqua Jet II WD 5.2 GPM 24 V Replacement Pump	5.2 GPM / 20 l/min		24 V	10 A		

*Various NPT and BSP-KlickTite™ connection types are offered as optional accessories.



AQUA JET II WASHDOWN - HALF KIT 3.5 AND 5.2 GPM

Part No.	Description	Capacity	Pressure Cut Off	Voltage	Fuse Size	Connection	Kit Includes
10-25013-03	Aqua Jet II WD 3.5 GPM 12 V 5 bar (Half Kit)	3.5 GPM / 13 l/min	73 psi / 5 bar	12 V	20 A	2 Pcs of ⅜" BSP & ½" Hose Barb 2 Pcs of ½" NPT & ¾" Hose Barb 1 Pcs of ¾" Small Garden Hose Thread	Pump with inlet strainer, pistol and two different connectors for the pistol (Garden Hose Threaded or Quick Grip Connector)
10-25013-04	Aqua Jet II WD 3.5 GPM 24 V 5 bar (Half Kit)			24 V	10 A		
10-25014-03	Aqua Jet II WD 5.2 GPM 12 V 5 bar (Half Kit)	5.2 GPM / 20 l/min		12 V	20 A		
10-25014-04	Aqua Jet II WD 5.2 GPM 24 V 5 bar (Half Kit)			24 V	10 A		

*Various NPT and BSP-KlickTite™ connection types are offered as optional accessories.



AQUA JET II WASHDOWN - FULL PUMP KIT 3.5 AND 5.2 GPM

Part No.	Description	Capacity	Pressure Cut Off	Voltage	Fuse Size	Connection	Kit Includes
10-25013-14	Aqua Jet II WD 3.5 GPM 12 V (Full Pump Kit)	3.5 GPM / 13 l/min	73 psi / 5 bar	12 V	20 A	2 Pcs of ⅜" BSP & ½" Hose Barb 2 Pcs of ½" NPT & ¾" Hose Barb 1 Pcs of ¾" Small Garden Hose Thread	Pump, inlet strainer, spray pistol, Klicktite barb port fittings, bulkhead fitting, 25 ft / 7.5 m coiled hose and threaded connector for the pistol and coil
10-25014-15	Aqua Jet II WD 5.2 GPM 12 V (Full Pump Kit)	5.2 GPM / 20 l/min					Pump, inlet strainer, spray pistol, Klicktite barb port fittings, bulkhead fitting, 25 ft / 7.5 m coiled hose and threaded connector for the pistol and coil
10-25014-16	Aqua Jet II WD 5.2 GPM 24 V (Full Pump Kit)			24 V	10 A		

*Various NPT and BSP-KlickTite™ connection types are offered as optional accessories.

Accessories - Water Pressure Systems and Washdown Pumps

Johnson Pump Accessories for your Water Pressure System WPS Pumps and Washdown WD Pumps to protect and enhance your water pressure system; including PUMProtector Strainers, Klicktite™ Port Connectors and Accumulator Tanks

PUMPROTECTOR STRAINER

The Inlet and PUMProtect strainers prevent debris and other particles from damaging the pump or passing through the system to the final outlet. Both of these strainers feature transparent covers for simple inspection, as well as a wide variety of KlickTite port connectors for simple installation and removal. Manufactured in high quality materials for easy maintenance.

The design and connectors make it possible to remove the entire unit for thorough cleaning wherever it is most convenient. It is recommended to use 40 mesh for water pressure and washdown pumps and 20 mesh for general purpose pumps.



INLET STRAINER

The filter is recommended for installation together with a Water Pressure System (WPS) pump to protect the pump from debris, etc. Mounted between water tank and pump. The filter is easy to disassemble for cleaning.

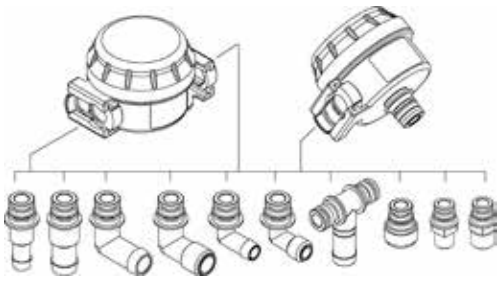
Part No.	Part No. USA	Description	Mesh	Max Liquid Temp.	Max Temp. for Drinking Water	KlickTite Connector	Materials	Dimensions
09-24653-01		PUMPProtector™ - Inlet Strainer 40 Mesh BSP	40	+120°F / +50°C	+85°F / +30°C	1 Built-in KlickTite™ 1 Pcs of ⅜" BSP & ½" Hose Barb 1 Pcs of ½" BSP & ¾" Hose Barb	Strainer – Polyamide 66, black Cover – Acrylic, clear, Screen – Stainless steel, 20 and 40 mesh O-rings – Silicone and EPDM	Diameter 3.15 in / 80 mm Height 2.35 in / 60 mm Weight 0.33 lbs / 0.15 kg Mesh size 40
	09-24653-02	PUMPProtector™ - Inlet Strainer 40 Mesh NPT						
	09-24653-03	PUMPProtector™ - Inlet Strainer 40 Mesh NPT				1 Built-in KlickTite™ Bulk version without any loose KlickTite connectors		
09-36012		Strainer Cover (O-ring included)					O-rings – Silicone Cover – Acrylic, clear	



UNIVERSAL STRAINER

The filter is recommended for installation together with a Water Pressure System (WPS) pump to protect the pump from debris, etc. Mounted between water tank and pump. The filter is easy to disassemble for cleaning.

Part No.	Part No. USA	Description	Mesh	Max Liquid Temp.	Max Temp. for Drinking Water	KlickTite Connector	Materials	Dimensions
09-24652-01		PUMPProtector™ - Universal Strainer 40 Mesh BSP	40	+120°F / +50°C	+85°F / +30°C	2 Pcs of ⅜" BSP & ½" Hose Barb 2 Pcs of ½" BSP & ¾" Hose Barb	Strainer – Polyamide 66, black Cover – Acrylic, clear, Screen – Stainless steel, 20 and 40 mesh O-rings – Silicone and EPDM	Diameter 3.15 in / 80 mm Height 2.35 in / 60 mm Weight 0.33 lbs / 0.15 kg Mesh size 40
09-24652-03		PUMPProtector™ - Universal Strainer 20 Mesh BSP	20					Diameter 3.15 in / 80 mm Height 2.35 in / 60 mm Weight 0.33 lbs / 0.15 kg Mesh size 20
	09-24652-02	PUMPProtector™ - Universal Strainer 40 Mesh NPT	40					Diameter 3.15 in / 80 mm Height 2.35 in / 60 mm Weight 0.33 lbs / 0.15 kg Mesh size 40
	09-24652-04	PUMPProtector™ - Universal Strainer 20 Mesh NPT	20					Diameter 3.15 in / 80 mm Height 2.35 in / 60 mm Weight 0.33 lbs / 0.15 kg Mesh size 20
09-36012		Strainer Cover (O-ring included)					O-rings – Silicone Cover – Acrylic, clear	



KLICKTITE™ - PORT CONNECTORS

KlickTite port connectors are available for the most common hose diameters and make it possible to remove the entire unit for thorough cleaning wherever it's most convenient. They also make it possible to drain the system quickly for effortless winterizing without the use of any tools.

Part No.	Part No. USA	Description	KlickTite™ Connector
09-46783		KlickTite™ Straight	2 Pcs ⅜" BSP & ½" Hose Barb
	09-46957		2 Pcs ⅜" NPT & ½" Hose Barb
09-46784			2 Pcs ½" BSP & ¾" Hose Barb
	09-46958		2 Pcs ½" NPT & ¾" Hose Barb
09-46939		KlickTite™ 90-Degree	2 Pcs 90° with ¾" Hose Barb
09-47087			2 Pcs 90° with ½" BSP
	09-47088		2 Pcs 90° with ½" NPT
09-46938			2 Pcs 90° with ½" Hose Barb
09-47026			2 Pcs 90° with 3/8" BSP
	09-47089		2 Pcs 90° with 3/8" NPT
09-47096		KlickTite™ Straight	2 Pcs with 3/8" BSP
09-47098			2 Pcs with ½" BSP
09-47092		KlickTite™ T-Fitting	1 Pcs T-Fitting with ¾" Hose Barb
09-47094		KlickTite™ Garden Hose	1 Pcs ¾" Garden Hose Thread

FITTINGS, HOSES, REPLACEMENT SWITCHES, CONTROL PANELS

Part No.	Part No. USA	Description
	40057	Water Pressure Regulator ¾" GHT 40-50 psi / 2.8-3.4 bar (Reduces city water pressure)
	61104-00	¾" GHT Hose Connector with Water-Stop for Spray Pistol
	61155	Spray Pistol with threaded hose connector
	34-82024	Wash Down Control 12 V 2-way ON OFF
	82024	
10615-00		Black hose Bulk 25 ft / 7.5 m
	09-60616	Blue Collapsible Hose for Aqua Jet WD Series - 25 ft / 7.6 m
09-24653-01		PUMPProtector™ - Inlet Strainer 40 Mesh BSP
	09-24653-02	PUMPProtector™ - Inlet Strainer 40 Mesh NPT
09-36012		Strainer Cover (O-ring included)
09-46780		Rubber Feet for WPS/WD Bracket (4 pcs)
09-46781-01		Pressure Switch Complete 40.6 psi / 2.8 bar (WPS 4.0/5.2 and Flow Master)
09-46781-02		Pressure Switch Complete 72.5 psi / 5.0 bar (WD 5.2)
09-46781-03		Pressure Switch Complete 30 psi / 2.1 bar (WPS 5.2)
34-82024		WD Control Panel 12 V 2 - Way
	82024	WD Control Panel 12 V 2 - Way
09-46956		WD/WPS Red Slide Clips (2 Pcs) Retail Pkg
09-46779-01		Diaphragm Kit 4.0 WPS 4.0/5.2 WD
09-47282		Pump Head Kit Complete WPS/WD 2.9
09-47029		Pump Head Kit Complete WPS 2.4
09-47282		Pump Head Kit Complete WPS/WD 2.9
09-47283		Pump Head Kit Complete WPS 3.5
09-46779-01		Diaphragm Kit 4.0 WPS 4.0/5.2 WD
09-46779-02		Diaphragm Kit 5.2 WPS



61155



09-46956



10615-00



09-46781-01
09-46781-02
09-46781-03



34-82024 / 82024



09-36012



40057



09-60616

Johnson Pump®

Power.
Protection.
Peace of Mind.



AQUA JET II
WASH DOWN PUMP

Meet the newly enhanced Aqua Jet II Wash Down Pump, designed by Johnson Pump Marine for serious boaters who demand serious performance. Built for saltwater conditions, this rugged pump features a dual-layer corrosion protection system, including Zinc–Manganese crystalline treatment, electrocoated paint film, and inside-and-out powder coating for unmatched durability.

Delivering up to 72 PSI of high-powered pressure, it provides the cleaning force you need, every time.

With a molded thermoplastic bracket that allows for easy pump removal, plus a vibration-free 5-chamber diaphragm and tool-free connections, it's marine innovation that's as easy as it is powerful.



Simplified Pump Mounting & Access

The new bracket design allows flexible pump orientation, simplifies installation and maintenance, and resists corrosion for long-lasting performance.



SPXFLOW®

johnsonpumpmarine.com

ACCUMULATOR TANK

The use of an accumulator tank is recommended to ensure effective and reliable system function. With an accumulator tank incorporated in the system, the intervals between cut-in and cut-out will be longer when only small amounts of water are drawn off. The benefit is less wear and tear on the pump with fewer starts and stops and added system capacity. Pre-pressurized at 12 psi / 0.8 bar.



Part No.	Description	Connection	Tank Volume	Pressure	Dimensions	Accumulator Bracket
09-36572-01	Accumulator Tank 2L 1/2" Hose Conn.	T-fitting with ½" Hose Barbs	0.5 gal / 2L	Pre-pressurized at 12 psi / 0.8 bar	Height: 10.63 in / 270 mm Diameter: 5.7 in / 145 mm Weight: 2.9 lbs / 1.3 kg	Stainless steel bracket
09-36572-02	Accumulator Tank 2L 3/4" Hose Conn.	T-fitting with ¾" Hose Barbs				
09-36572-03	Accumulator Tank 5L 1/2" Hose Conn.	T-fitting with ½" Hose Barbs	1.3 gal / 5L	Max working pressure: 145 psi / 10 bar	Height: 12.4 in / 315 mm Diameter: 6.3 in / 160 mm Weight: 3.5 lbs / 1.6 kg	Plastic bracket
09-36572-04	Accumulator Tank 5L 3/4" Hose Conn.	T-fitting with ¾" Hose Barbs				
0.2527.008	Hose Connection EXT R3/4"X20mm PPG	¾" Hose Barbs				

WASHDOWN THRU DECK FITTINGS

- Flush Mount
- Connects and disconnects under full pressure
- Positive lock bayonet connector
- Double viton O-ring seals
- Large flow capacity
- 316 stainless steel
- Nylon 66 connections

Part No.	Part No. USA	Description
32-61121BSP	JP-61121	Deck Wash Quick Connector Single Inlet - Straight Connector
32-61145BSP	JP-61145	Deck Wash Quick Connector - 45 Degree Connector
09-10616		Straight Bulk Head Fitting 3/4" Hose
	61127A	90-Deegre Bulk Head Fitting 3/4" Hose



	DECK WASH QUICK CONNECTOR SINGLE INLET - STRAIGHT CONNECTOR		DECK WASH QUICK CONNECTOR - 45 DEGREE CONNECTOR	
	Part No.	Part No. USA	Part No.	Part No. USA
	P/N 32-61121BSP	P/N JP-61121	P/N 32-61145BSP	P/N JP-61145
Common Use	Boats and Yachts			
Backflow Prevention	YES, Built-in check valve			
	STRAIGHT CONNECTOR		45 DEGREE CONNECTOR	
Entry Hole	25.4 mm	1.5 in	25.4 mm	1.5 in
Inlet	1/2" BSP (f)	1/2" NPT (f)	1/2" BSP (f)	1/2" NPT (f)
Outlet	3/4" BSP (m)	3/4" GHT (m)	3/4" BSP (m)	3/4" GHT (m)
Operating Temperature	0.6-60°C	33-140 °F	0.6-60°C	33-140 °F
Operating Water Pressure	1.7-8.6 Bar	25-125 psi	1.7-8.6 bar	25-125 psi
Flow Rate	25 LPM @ 3,59 bar	6.8 GPM @ 52 psi	25 LPM @ 3.59 bar	6.8 GPM @ 52 psi
Plumbing Compatibility	All (PEX recommended)			
Hydrant Material	316L Stainless Steel			
Connector Material	Acetal Resin Polymer			
O-ring Material	Fluorocarbon Rubber			
Cover Material	ASA Thermoplastic			

SUBMERSIBLE BILGE PUMPS, SWITCHES & MANUAL BILGE PUMPS

The submersible pumps from Johnson Pump Marine can handle most bilge pump applications. Heavy duty motors with stainless steel (SS2343/1.4436) shafts and tough thermoplastic bodies provide for a long pump life.

With an automatic switch installed, the pump automatically starts and stops based on presence of rising water levels in the bilge.



16 CARTRIDGE BILGE PUMPS



19 HEAVY DUTY BILGE PUMPS



21 AUTOMATIC BILGE PUMPS



22 FLOAT SWITCHES



23 MANUAL BILGE PUMPS



25 ACCESSORIES & SPARE PARTS



EN55014-1
ISO8846
ISO8849
ISO10133



Submersible Cartridge Bilge Pumps

Bilge pump cleaning and maintenance no longer require complete disassembly of the pump. You can now easily remove the pump housing and motor from the strainer basket while hoses are still attached and the basket mounted to the hull. The cartridge bilge pumps can be removed for cleaning, inspection, or replacement motor upgrades without the use of a single tool, thanks to their reinforced, click-in basket. Simply pinch both sides of the basket tabs and pull up on the pump body. To remove the motor only leaving the body in place, Press down on the top, give the cartridge a twist and pull it out; that's all there is to it. The cartridge contains an all-in-one motor/impeller unit with included, industrial first, inline electrical harness connections requiring no cutting and splicing of wires in the future.

Johnson Pump Cartridge Series Pumps use remarkably little electricity for the amount of water they pump. Their motors also provide increased service life, thanks in part to an ingenious solution which circulates the discharge water around the motor for cooling.

Johnson Pump Submersible Cartridge Bilge Pumps come standard with a molded T-slot for the easy installation of float switches and can be combined with either an automatic mechanical style float switch AS888, an electro-magnetic float switch or the fully electronic Ultima Switch for automatic operation. Cartridge Bilge Pumps are also available as complete packages know as AUTO or 'combo pumps' which including electronic float switches or sensing devices.

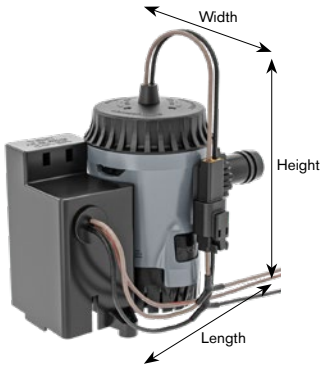
AQUA VOID CARTRIDGE SUBMERSIBLE BILGE PUMPS

Our Cartridge Pumps incorporate some of the most advanced features in the industry, features developed from service in a wide variety of uses including racing, cruising, sport fishing, and demanding commercial duties. The Aqua Void series features an enhanced motor and high-flow impeller, a groundbreaking quick-change motor connection for hassle-free cartridge motor changes or capacity upgrades. The 500 GPH, 800 GPH, and 1100 GPH pumps come with easy-to-install straight and 90° Dura-Port discharge ports and easy threading, free-spinning nut that eliminate fighting bent hoses or using tools to install or remove.

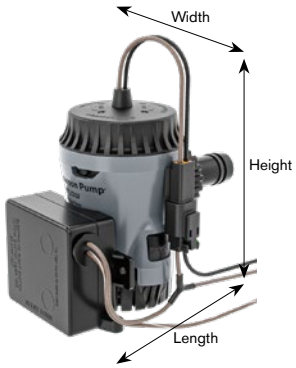
Dura-Ports are external, smooth bore, and versatile hose connections that eliminate stress cracking caused by over-tightened hose clamps. All pumps are delivered with a removable check valve and rubber compression washer (used separately).



AQUA VOID



ELECTRO COMBO



ULTIMA COMBO



AQUA VOID AUTO

	500 & 800 GPH	1100 GPH
Length	Aqua Void - 5.24 in / 133 mm Electro Combo - 6.30 in / 160 mm Ultima Combo - 5.94 in / 151 mm Aqua Void Auto - 5.24 in / 133 mm	Aqua Void - 5.35 in / 136 mm Electro Combo - 6.50 in / 165 mm Ultima Combo - 6.06 in / 154 mm
Width	Aqua Void - 2.75 in / 70 mm Electro Combo - 2.95 in / 75 mm Ultima Combo - 3.58 in / 91 mm Aqua Void Auto - 2.75 in / 70 mm	Aqua Void - 3.03 in / 77 mm Electro Combo - 2.95 in / 75 mm Ultima Combo - 3.58 in / 91 mm
Height	4.69 in / 119 mm	4.88 in / 124 mm
Weight	Aqua Void - 11.2 oz (0,32 kg) 500 GPH / 12.6 oz (0,36 kg) 800 GPH Electro Combo - 15.9 oz (0,45 kg) 500 GPH / 17.3 oz (0,49 kg) 800 GPH Ultima Combo - 16.9 oz (0,48 kg) 500 GPH / 18.5 oz (0,52 kg) 800 GPH Aqua Void Auto - 11.2 oz (0,32 kg) 500 GPH / 12.6 oz (0,36 kg) 800 GPH	Aqua Void - 13.6 oz (0,386 kg) 1100 GPH Electro Combo - 18.5 oz (0,52 kg) 1100 GPH Ultima Combo - 19 oz (0,54 kg) 1100 GPH
Wire Size	16 AWG / 1.31 mm²	
Wire Length	2.46ft / 0.75 m	
Body	Thermoplastic	
Shaft Seal	Lip seal	
Motor Shaft	Stainless steel	

Part No.	Pump Size	Description	Part No. Explanations	Capacity Straight	Voltage	Amperage	Fuse Size	Hose Connection
10-13626-01	500 GPH	Aqua Void Cartridge Bilge Pump 500 GPH 12 V	Pump Only (No Switch Included)	600 GPH / 38 l/min (13.6 V)	12 V	2.7 A	3.5 A	Straight & 90° ¾"
10-13637-01		Aqua Void Electro Combo 500 GPH 12 V*	Pump with Prewired Electromagnetic Float Switch					
10-13635-01		Aqua Void Ultima Combo 500 GPH 12 V	Pump with Prewired Ultima Digital Switch					
10-13626-03		Aqua Void Automatic 500 GPH Bilge Pump 12 V	Automatic Pump with Integrated 2.5-Minute Spin Check					
10-13626-05	800 GPH	Aqua Void Cartridge Bilge Pump 800 GPH 12 V	Pump Only (No Switch Included)	790 GPH / 50 l/min (13.6 V)		3.7 A	5 A	
10-13637-02		Aqua Void Electro Combo 800 GPH 12 V*	Pump with Prewired Electromagnetic Float Switch					
10-13636-01		Aqua Void Ultima Combo 800 GPH 12 V	Pump with Prewired Ultima Digital Switch					
10-13626-07		Aqua Void Automatic 800GPH Bilge Pump 12 V	Automatic Pump with Integrated 2.5-Minute Spin Check					
10-13667-01	1100 GPH	Aqua Void Cartridge Bilge Pump 1100 GPH 12 V	Pump Only (No Switch Included)	1150 GPH / 72 l/min (13.6 V)		5.3 A (12 V) 6.1 A (13.6 V)	7.5 A	Straight & 90° 1⅛"
10-13670-01		Aqua Void Electro Combo 1100 GPH 12 V*	Pump with Prewired Electromagnetic Float Switch					
10-13669-01		Aqua Void Ultima Combo 1100 GPH 12 V	Pump with Prewired Ultima Digital Switch					
10-13667-02		Aqua Void Cartridge Bilge Pump 1100 GPH 24 V	Pump Only (No Switch Included)	TBC	24 V	TBC A	TBC A	
10-13670-02		Aqua Void Electro Combo 1100 GPH 24 V	Pump with Prewired Electromagnetic Float Switch					
10-13669-02		Aqua Void Ultima Combo 1100 GPH 24 V	Pump with Prewired Ultima Digital Switch					

*Aqua Void Electro Combo is not available outside USA

	Description	500 GPH	800 GPH	1100 GPH
1.	Hose size	¾" / 19 mm	¾" / 19 mm	1 ⅛"/ 28 mm
2.	Capacity, straight (12 V, ISO 8849)	550 GPH / 34 l/min	725 GPH / 45 l/min	1070 GPH / 67 l/min
	Capacity, straight (13.6 V, ABYC H-22)	600 GPH / 38 l/min	790 GPH / 50 l/min	1150 GPH / 72 l/min
3.	Capacity, 1 m head (12 V, ISO 8849)	330 GPH / 21 l/min	550 GPH / 34 l/min	780 GPH / 49 l/min
	Capacity, 1 m head (13.6 V, ABYC H-22)	370 GPH / 24 l/min	555 GPH / 35 l/min	870 GPH / 55 l/min
4.	Capacity, 2 m head (12 V, ISO 8849)	225 GPH / 14 l/min	370 GPH, 23 l/min	560 GPH, 35 l/min
	Capacity, 2 m head (13.6 V, ABYC H-22)	220 GPH / 14 l/min	340 GPH / 21 l/min	585 GPH / 35 l/min
5.	Capacity, MAX Head (12 V, ISO 8849, ABYC H-22)	8.5 ft / 2,6 m	13.1 ft / 4,0 m	11.8 ft / 3,6 m
	Capacity, MAX Head (13.6 V, ISO 8849, ABYC H-22)	11.1 ft / 3,4 m	16.4 ft / 5,0 m	14.4 ft / 4,4 m
6.	Voltage	12 V	12 V	12 V
7.	Max current	2,7 A	3,7 A	5,3 A
8.	Fuse size	3,5 A	5 A	7,5 A
9.	Height	4.69" / 119 mm	4.69"/ 119 mm	4.88" / 124 mm
10.	Width	2.75" / 69,8 mm	2.75" / 69,8 mm	3.03" / 77 mm
11.	Length	5.24" / 133 mm	5.24"/ 133 mm	5.35" / 136 mm
12.	Weight	11.2 oz / 0,32 kg	12.6 oz / 0,36 kg	13.6 oz / 0.38 kg
13.	Cable area	16GA / 1,3 mm^2	16GA / 1,3 mm^2	16GA / 1,3 mm^2
ISO 8849	Straight = 1m: 1 m height with 1,5 m hose 2 m: 2 m height 3,0 m hose			
ABYC H-22	Straight = 1 m: 1 m height with 2 m hose 2 m: 2 m height 6 m hose			
	*13.6 V represents the charging system voltage typically seen when the engine is running. A fully charged battery will normally supply around 12.6–12.8 V, meaning the 13.6 V values are more representative of real life operating conditions.			

AQUA VOID - MOTORS AND ACCESSORIES

Part No.	For Pump Size	Description	Part No. Explanations	Voltage	Capacity
09-36336-01	500 GPH	Aqua Void Cartridge Motor 500 GPH 12 V	For Aqua Void 500 GPH, but also fits 800 GPH	12 V	600 GPH / 38 l/min
09-36336-04		Aqua Void Auto Cartridge Motor 500 GPH 12 V			
09-36336-06	800 GPH	Aqua Void Cartridge Motor 800 GPH 12 V	For Aqua Void 800 GPH, but also fits 500 GPH	12 V	790 GPH / 50 l/min
09-36336-10		Aqua Void Auto Cartridge Motor 800 GPH 12 V			
09-36336-11	1100 GPH	Aqua Void Cartridge Motor 1100 GPH 12 V	Only fits Aqua Void 1100 GPH	12 V	1150 GPH / 72 l/min
09-36336-12		Aqua Void Cartridge Motor 1100 GPH 24 V		24 V	

Part No.	For Pump Size	Description
09-36422	500 & 800 GPH	Duraport Straight - Nut - Nitrile Washer - (Retail)
09-36423		Duraport 90° - Nut - Nitrile Washer - (Retail)
09-36426		Duraport Check Valve - (Retail)
09-47870	1100 GPH	Duraport Straight - Nut - Nitrile Washer - (Retail)
09-47871		Duraport 90° - Nut - Nitrile Washer - (Retail)
09-47872		Duraport Check Valve - (Retail)

Digital Version: **Click to learn more about our Aqua Void Auto Cartridge Bilge Pumps**



Digital Version: **Click to learn more about our Aqua Void Cartridge Bilge Pumps**



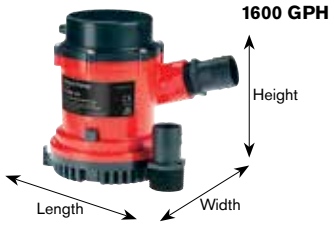
Heavy Duty Submersible Bilge Pumps

Designed to meet and exceed the tough demands of commercial and recreational duty. These pumps have a liquid cooled, 12-pole motor with double ball bearings for extended service life. The 1600 and 2200 GPH pumps are also available with pre-wired Ultima Switch or with Electro Magnetic Switch.

HEAVY DUTY BILGE PUMP 1600-4000 GPH - SUBMERSIBLE BILGE PUMP

The 1600 GPH model features a durable lip seal, providing reliable protection in demanding marine environments. The 2200 GPH motor is sealed with a mechanical design for enhanced durability. The 4000 GPH model offers a robust motor design, mechanical shaft seal, high-impact ABS plastic housing, generous wire length, and a unique threaded port design.

The impeller has been carefully engineered and tested to maximize both head and flow. A universal base plate and a choice of two different port sizes ensure simple installation. A removable check valve is included for added convenience.

	1600 GPH	2200 GPH	4000 GPH
PUMP ONLY			
ELECTRO COMBO			
ULTIMA COMBO			

	1600 GPH	2200 GPH	4000 GPH
Length	Pump Only - 7.28 in / 185 mm Electro Combo - 8.35 in / 212 mm Ultima Combo - 8.42 in / 214 mm	Pump Only- 8.07 in / 205 mm Electro Combo - 9.13 in / 232 mm Ultima Combo - 9.21 in / 234 mm	8.78 in / 223 mm
Width	4.25 / 108 mm		5.31in / 135 mm
Height	5.86 in / 149 mm	6.97 in / 177 mm	8.50 in / 216 mm
Weight	Pump Only - 2.87 lbs / 1.3 kg Electro Combo - 3 lbs / 1.4 kg Ultima Combo - 3 lbs / 1.4 kg	Pump Only - 4.96 lbs / 2.25 kg Electro Combo - 5.18 lbs / 2.35 kg Ultima Combo - 5.18 lbs / 2.35 kg	5.4 lbs / 2.45 kg
Wire Size	16 AWG (1.31 mm^2)		
Wire Length	6ft / 1.8 m		
Body	ABS		
Shaft Seal	Lip Seal	Mechanical seal	
Motor Shaft	Stainless steel	Stainless steel	

DISCOVER OUR SELF-PRIMING PUMPS IDEAL FOR DRY BILGE USE



VIKING POWER 16

Part No. 10-13350-03
For more information see page 50.

F3B-19

Part No. 10-24516-01
For more information see page 34.



Part No.	Part No. USA	Pump Size	Description	Capacity straight (13.6V/27.2V)	Capacity 1.0 m head (13.6V/27.2V)	Voltage	Amperage	Fuse Size	Connection
32-1600-01	16004-00	1600 GPH	Heavy Duty Bilge Pump 1600 GPH, 12 V	1600 GPH / 100 l/min	1550 GPH / 98 l/min	12 V	7 A	10 A	1⅛" & 1¼"
32-1600-02	16084-00		Heavy Duty Bilge Pump 1600 GPH, 24 V			24 V	3.5 A	6 A	
	01604-00		Heavy Duty Bilge Pump 1600 GPH, Combo 12 V (with Electro-Magnetic Switch)			12 V	7 A	10 A	
	01604-002		Heavy Duty Bilge Pump 1600 GPH, Combo 24 V (with Electro-Magnetic Switch)			24 V	3.5 A	6 A	
32-1600UC-01	01674-001		Heavy Duty Bilge Pump 1600 GPH, Ultima 12 V (with Ultima Switch)			12 V	7 A	10 A	
32-1600UC-02	01674-002		Heavy Duty Bilge Pump 1600 GPH, Ultima 24 V (with Ultima Switch)			24 V	3.5 A	6 A	
32-2200-01	22004	2200 GPH	Heavy Duty Bilge Pump 2200 GPH, 12 V	2060 GPH / 130 l/min	1900 GPH / 120 l/min	12 V	7.5 A	12 A	
32-2200-02	22084		Heavy Duty Bilge Pump 2200 GPH, 24 V			24 V	4.5 A	6 A	
	02204-00		Heavy Duty Bilge Pump 2200 GPH, Combo 12 V (with Electro-Magnetic Switch)			12 V	7.5 A	12 A	
	02204-002		Heavy Duty Bilge Pump 2200 GPH, Combo 24 V (with Electro-Magnetic Switch)			24 V	4.5 A	6 A	
32-2200UC-01	02274-001		Heavy Duty Bilge Pump 2200 GPH, Ultima 12 V (with Ultima Switch)			12 V	7.5 A	12 A	
32-2200UC-02	02274-002		Heavy Duty Bilge Pump 2200 GPH, Ultima 24 V (with Ultima Switch)			24 V	4.5 A	6 A	
32-4000-01	40004	4000 GPH	Heavy Duty Bilge Pump 4000 GPH, 12 V	4000 GPH / 252 l/min	2600 GPH / 164 l/min	12 V	15 A	25 A	1½" & 2"
32-4000-02	40084		Heavy Duty Bilge Pump 4000 GPH, 24 V			24 V	7.5 A	15 A	

HEAVY DUTY - ACCESSORIES

Part No.	Part No. USA	For Pump Size	Description
	10606-00	1600 & 2200 GPH	1 ⅛" Threaded Discharge Port 1600 GPH/2200 GPH
	10607-00		1 ¼" Threaded Discharge Port 1600 GPH/2200 GPH
	54061-24PK		1" Port, 1600 GPH/2200 GPH
33-54264	54264PK		Black basket, 1600 GPH/2200 GPH
33-54274	54274PK	4000 GPH	Black basket, 4000 GPH



33-54264
US P/N 54264PK



33-54274
US P/N 54274PK



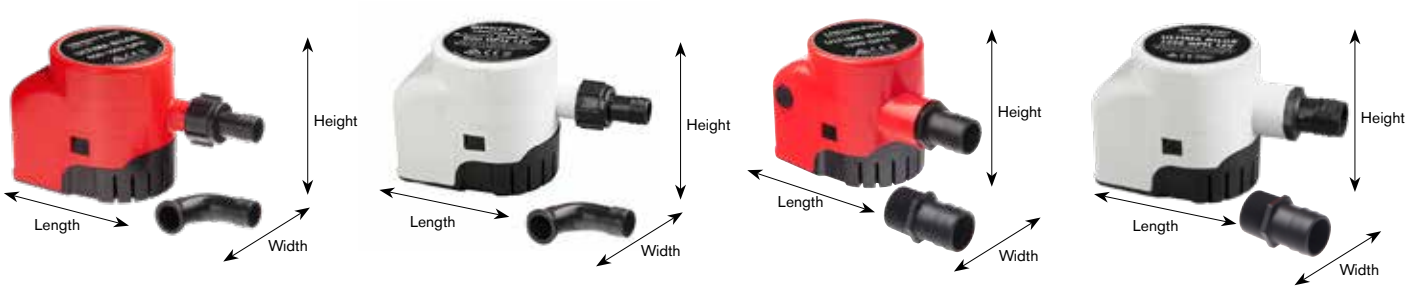
10606-00



10607-00

ULTIMA BILGE – AUTOMATIC SUBMERSIBLE BILGE PUMP WITH INTEGRATED SWITCH

Sleek, reliable and compact unit with integrated switch ready to install and run for years and years of reliable service. Available in 600, 800, 1000 and 1250 GPH versions. The Ultima Bilge 600 to 1000 GPH come with easy-to-install straight and 90° Dura-Port discharge ports and easy threading, free-spinning nut that eliminate fighting bent hoses or using tools to install or remove. Dura-Ports are external, smooth bore, and versatile hose connections that eliminate stress cracking caused by over-tightened hose clamps. All pumps are delivered with a removable check valve and rubber compression washer (used separately).



Red = Part No. EMEA & White = Part No USA

	600 GPH	800 GPH	1000 GPH	1200 GPH
Color	Red = Part No. & White = Part No USA			
Length	6 in / 142 mm			
Width	3.2 in / 82 mm			
Height	4.1in / 105 mm			4.6 in / 117mm
Weight	23.3oz / 0.66 kg			
Wire Size	16 GA / 1.3 mm^2			
Wire Length	2.95 ft / 0.9 m			
Body	ABS			
Shaft Seal	Lip seal			
Motor Shaft	Stainless steel			

Part No.	Part No. USA	Description	Capacity straight (13.6V)	Capacity 3 ft (1 m) head (13.6V)	Voltage	Amperage	Fuse Size	Connection
32-47258-008	32-47258-003	Ultima Bilge 600 GPH 12 V with integrated switch	600 GPH / 38 l/min	500 GPH / 32 l/min	12 V	2.5 A	5 A	¾"
32-47259-008	32-47259-003	Ultima Bilge 800 GPH 12 V with integrated switch	800 GPH / 51 l/min	600 GPH / 38 l/min		3 A	5 A	
32-47260-008	32-47260-003	Ultima Bilge 1000 GPH 12 V with integrated switch	1000 GPH / 64 l/min	700 GPH / 44 l/min		3.2 A	5 A	
32-47261-005*	32-47261-002*	Ultima Bilge 1250 GPH 12 V with integrated switch	12250 GPH / 79 l/min	800 GPH / 51 l/min		3 A	5 A	1⅛" & 1¼"

*1250 GPH Does not include or accommodate Dura-Port connection

ULTIMA BILGE - ACCESSORIES

Part No.	Part No. USA	For Pump Size	Description
	54315PK	600-1250 GPH	Ultima Bilge Basket 600-1250 GPH
09-36422		600-1000 GPH	Duraport Straight - Nut - Nitrile Washer - (Retail)
09-36423			Duraport 90° - Nut - Nitrile Washer - (Retail)
09-36426			Duraport Check Valve - (Retail)

Bilge Pump Float Switches

Equip your bilge pump with an automatic float switch for peace-of-mind and worry-free operation of your pump. A switch will automatically activate the bilge pump when the water level rises in the bilge and deactivate the pump as the water level is lowered. The Fully Electronic and Automatic Ultima Switch, Electro-Magnetic Float Switch and a traditional Float Switch; all Mercury-free.



ULTIMA SWITCH - ELECTRONIC AUTOMATIC SWITCH

The electronic automatic switch, Ultima Switch uses the patented Mirus field effect detector cells producing micro-electrical fields that detect disruptions caused by water and fluids. Detector cells are totally sealed and are never in contact with the water, will not corrode and are not affected by oil or foreign debris.

No moving parts, totally sealed solid state electronics and field detectors, no mercury and no exposed sensors eliminate corrosion possibilities and make the Ultima Switch environmentally sensitive.

Ultima Switch activates at a 2" / 50 mm fluid level and deactivates at a ¾" / 20 mm fluid level.
A three second delay prevents false starts.

Ultima Switch is rated to handle pumps up to 20A at 12 V or 24 V.



ELECTRO-MAGNETIC FLOAT SWITCH

Electro-magnetic float switch offers a combination of reliable solid state electronics and a sealed float switch. False start prevention, no mercury, high impact plastic and encapsulated electronics adds up to dependability.

Activates pump at 2" / 50 mm water level, deactivates pump at ¾" / 20 mm water level.

The switch is designed to attach to the Johnson Pump Cartridge bilge pumps. When attaching to other Johnson Pump bilge pumps, use the adapter provided.



AS888 - AUTOMATIC FLOAT SWITCH

The AS888 automatic float switch has a time-proven micro switch without mercury. When water exceeds the acceptable level, the pump is turned on by a rolling steel ball, which changes the pressure on the micro switch. For fully automatic bilge pumping operation, connect the automatic switch to your bilge pump. The AS888 attaches to any Johnson Pump bilge pump through a clip on “T-slot” and can be used with 12, 24 or 32 V systems.

Part No.	Part No. USA	Description	Voltage	Max Amp.
34-36303	36303	Ultima Switch Electronic Automatic Switch 12/24 V	12 V	20 A
			24 V	10 A
34-1900B-12V	36152	Electro-Magnetic Float Switch, 12 V	12 V	15 A
34-1900B-24V	36252	Electro-Magnetic Float Switch, 24 V	24 V	10 A
34-888	26014	AS888 Automatic Float Switch 12/24 V	12 & 24 V	15 A

BILGE PUMP CONTROL PANELS



3 Way Bilge Pump Control

BILGE PUMP CONTROL

The complete switch panel gives you full control of your equipment. Simply depress the rocker switch for manual or automatic bilge pumping. The automatic feature operates in combination with the installed automatic bilge pump float switches, or electronic sensing of the AUTO pumps. The three-position switch panel has an integrated 1/4"x1-1/4" fuse holder, 3-position ON/OFF/MOM rocker switch with indicator light, all framed in an aluminium mounting plate. Note! Fuses are not included.

Part No.	Part No. USA	Description	Voltage	Max Amp.
34-1224	82044	Bilge Pump Control 12 V 3-Way ON AUTO OFF	12 V	Depends on the pump
34-1225	82044-24V	Bilge Pump Control 24 V 3-Way ON AUTO OFF	24 V	
34-82004	82004	Bilge Pump Control 12 V 2-Way ON OFF	12 V	
34-82004-24V	82004-24V	Bilge Pump Control 24 V 2-Way ON OFF	24 V	
Size LxHxW		2.99 in / 73 mm x 2.17 in / 60 mm x 1.57 in / 40 mm		

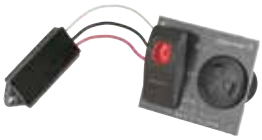


Bilge Alert with *Ultima Switch*

BILGE ALERT - HIGH WATER ALARM WITH ULTIMA SWITCH

High water alarm with Ultima Switch featuring digital technology using the patented Mirus field effect. Totally sealed fluid detector is never in contact with water, will not corrode and is not affected by oil or debris. Bilge Alert detects water and sends a signal (3-second delay) to the alarm and switch conveniently mounted on a panel. Three way rocker switch allows alarm to be tested, turned off and armed (Test-Off-Armed).

Part No.	Part No. USA	Description	Voltage
34-72303-001	72303-001	Bilge Alert, High Water Alarm with Ultima Switch 12 V	12 V
34-72303-002	72303-002	Bilge Alert, High Water Alarm with Ultima Switch 24 V	24 V



Bilge Alert with sensor

BILGE ALERT - HIGH WATER ALARM WITH SENSOR

The Bilge Alert high water detection alarm utilizes field effect technology to detect the presence of liquid. The detector is highly reliable, durable and takes advantage of advanced sensor technology. The detector activates an alarm of 100 db after a delay of 8 seconds from being exposed to water.

Part No.	Part No. USA	Description	Voltage
34-72303	72303	Bilge Alert, High Water Alarm with sensor 12 V	12 V

Manual Bilge Pumps

Manual Bilge Pumps are ideal for boats with no on-board power, or as backup in the event of a power outage.



VIKING COMPACT - MANUAL HAND-POWERED BILGE PUMP

Full-capacity, hand-powered bilge pump perfect for installation in tight spaces. This rugged, yet sleekly designed, single-chamber diaphragm pump provides first-rate performance and is a snap to install. It can be fitted in minutes from one side of the bulkhead with just four screws, self-sealing against the surface with a durable, watertight gasket. With the pump housing recessed behind the bulkhead, only the handle is visible from the cabin or cockpit.

The Viking Compact's inlet and outlet ports can be swivelled 360° and are delivered in two sizes with every pump, 1" / Ø25 mm and 1½" / Ø38 mm. Naturally, the Viking Compact has KlickTite connectors fitted as standard, literally making hose connections a snap!

Material Specifications Viking Compact	
Body and cover	Polypropylene, ABS
Diaphragm and valves	Nitrile rubber, Nitrile rubber (1 leaf and 1 tricuspid valve)
Wetted parts	Polypropylene, PA66GF30 plastics and nitrile rubber



Part No.	Description	Flow at 10 kPa head and 45 strokes/min	Maximum lift	Maximum head	Combined head/lift	Max. liquid temp	Connection	Weight
10-24800-01	Viking Compact Manual Bilge Pump	Ø 25 mm 9.1 GPM / 34.5 l/min Ø 38 mm 11.9 GPM / 45 l/min	7 ft / 2.1 m	4 ft / 1.2 m	10.8 ft / 3.3 m	140°F / +60°C	KlickTite™ connectors for 1 in / 25 mm or 1½ in / 38 mm hose	1.54 lbs / 0.7 kg

VIKING UNIVERSAL - MANUAL HAND-POWERED BILGE PUMP



Heavy duty, self-priming, hand-powered bilge pump for nearly any type of installation. Viking Universal's mounting bracket allows for vertical or horizontal surface mounting. With the optional Through Deck Kit the pump can be installed behind bulkheads or below the deck.

To minimize required space the Viking Universal excels at adaption. Easy to change the direction of flow. The KlickTite straight and 90° hose connections (included in package) can be used in combination. The hose connections and even the pump housing can easily be rotated for optimal positioning.

While designed as a powerful bilge pump, the Viking Universal's large 1½" / Ø38 mm hose connections enable the pump also to be used for pumping toilet waste. Fasteners are included for stowing the handle and the safety clasp ensures that the handle will not be lost while not in use or during an emergency situation.



Performance at 45 strokes/min and a 3.28 ft / 1 m head (10 kPa/1.45 psi pressure), the Viking Universal has a flow of 16 GPM / 60 l/min.



09-36250

Material Specifications Viking Universal	
Body and cover	Polypropylene plastic reinforced with 30% fiberglass
Diaphragm and valves	Nitrile rubber
Wetted parts	PP30GF, PA66 GF30, POM, stainless steel, nitrile rubber

Part No.	Description	Capacity Data (At 1m/3.28') head	Maximum lift	Maximum head	Combined head/lift	Max. liquid temp	Connection	Weight
10-13530-01	Viking Universal Manual Bilge Pump	45 strokes/min --> 16 GPM / 60 l/min	10 ft / 3 m	13 ft / 4 m	23 ft / 7 m	140°F / +60°C	KlickTite™ connectors for 1½ in / 38 mm hose	3.3 lbs / 1.5 kg

VIKING HAND PUMP - THRUDECK AND BULKHEAD - HAND POWERED DIAPHRAGM BILGE PUMP

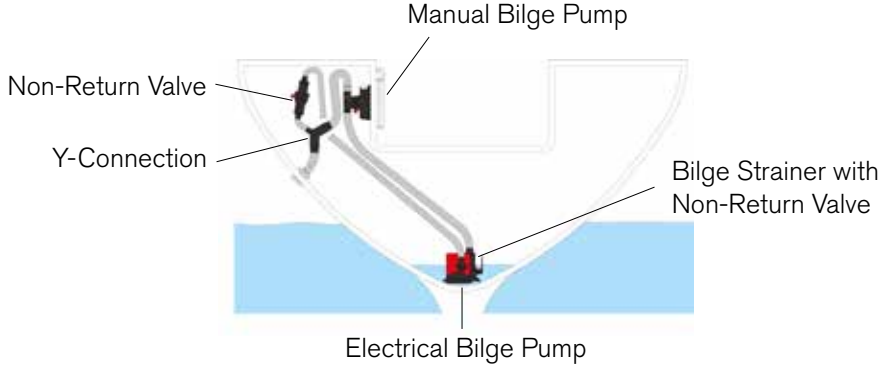


When the power is out you can always depend on the hand operated diaphragm bilge pump. The pump is available in two models for various installation alternatives. It can be mounted behind walls, through deck and under bulkheads. Viking Thrudeck for installation behind vertical walls or under deck with sealing boot, complete with a cover plate. Viking Bulkhead for surface installation with horizontal lever. The Viking pump can also be used for pumping toilet waste due to the large hose connections.

Diameter	6.45 in / 164 mm
Handle length	11.22 in / 285 mm
Width	9.96 in / 253 mm
Height	5.23 in / 133 mm
Weight	4.5 lbs / 2 kg

Part No.	Description	Capacity Data (At 1m/3.28') head	Max suction height
70-50005	Viking Hand Pump Thrudeck 1½"	60 strokes/min --> 14.5 GPM / 54 l/min 80 strokes/min --> 19 GPM / 72 l/min 100 strokes/min --> 24 GPM / 90 l/min	13 ft / 4 m
70-50025	Viking Hand Pump Thrudeck 1"		
70-50007	Viking Hand Pump Bulkhead 1½"		
70-50027	Viking Hand Pump Bulkhead 1"		

Bilge Pump Systems - Manual and electrical bilge pumps in combination



STRAINER/ VALVE/ Y-CONNECTION

IN-LINE NON-RETURN VALVE

- Designed to install in-line.
- Maintains prime in a suction or discharge line.
- Easy to maintain and clean without use of tools.



Part No.	Description	Connection
09-24792	In-Line Non-Return Valve	1 in / 1½ in / 25/38 mm
09-24818	In-Line Non-Return Valve	¾in / 1¼in / 19/32 mm

BILGE STRAINER WITH NON-RETURN VALVE

Foot Mounted for capturing low lying water where pump is mounted higher and elsewhere.

- Designed to prevent bilge debris from blocking the inlet suction line.
- Reduce the risk of debris entering and blocking the pump.
- Maintain prime in the suction line.
- Easy to maintain and clean without use of tools.



Part No.	Description	Connection
09-24794	Strainer	¾ in / 1¼ in / 19/32 mm, 1 in / 1½ in / 25/38 mm

Y-CONNECTION

- Y-connections enable two pumps to discharge through a single line.
- Diverter valve is not required.



Part No.	Description
01-24814	Y-connection 38X38X25
01-24815	Y-connection 29/32X29/32X19

CONNECTIONS - VIKING UNIVERSAL MANUAL BILGE PUMP



Part No.	Description	Connection
09-47493	Connection, 90° In/Out	Ø38 mm
09-47495	Connection, 90° In/Out	Ø25 mm
09-47543	Connection, straight In/Out	Ø38 mm
09-47544	Connection, straight In/Out	Ø25 mm
09-47545	Spare kit diaphr. Viking univ.	
74-50055	Cover for Viking hand pump	
74-50062	Valve for Viking hand pump	
74-50063	Diaphragm Viking hand pump	
74-50075	Sealing boot Viking hand pump	
09-36250	Viking universal through deck kit	

FISHING LIVEWELL PUMPS & ACCESSORIES

Aerator pumps are designed to deliver new water to your live bait tank via a thru-hull installation. Twin port pumps combine two functions into one product. The first function is the same as the one used for the aerator, while the second function enables you to supply fresh water to both the deck washdown system and the live-bait tank simultaneously.

The Aqua O_2 is engineered for optimal efficiency and reliability, providing superior aeration to your livewell system and keeping your bait and catch in prime condition. Whether you're braving rough saltwater conditions or relaxing on a calm lake, you can count on the Aqua O_2 Cartridge Aerator Pump to deliver top performance every time.

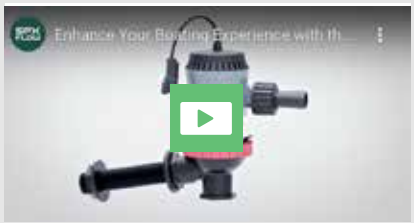


28 AQUA O_2 TWINPORT AND AERATOR PUMPS



31 ACCESSORIES

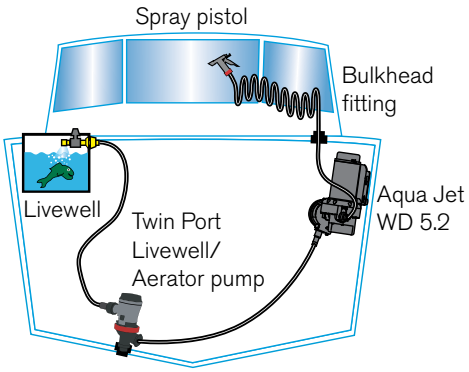
Digital Version: **Click to learn more about our Aqua O_2 Aerator and Twin Port Pumps.**





Aqua O_2 Aerator Pumps

Discover the unparalleled versatility of the Aqua O_2 Cartridge Aerator Pump, designed specifically for the demanding conditions of saltwater environments. Featuring a unique 360-degree pump mounting flexibility, this aerator pump seamlessly adapts to limited access spaces, making it an ideal choice for any boat configuration. Easily upgrade your motor with the industry-first quick-change motor electrical connection, ensuring hassle-free maintenance and enhanced performance.



AQUA O_2 CARTRIDGE TWIN PORT - AERATOR PUMP

The Aqua O_2 Cartridge Twin Port Aerator Pump offers the convenience of using only one intake for both the livewell and raw water washdown pump. The ¾" tapered inlet/nipple connects directly to the sea cock and the upper outlet port provides a continuous flow of water through the ¾" discharge to the livewell while the lower outlet port connects to the washdown pump through either a ½" or ¾" port. High pressure inlet seal easily handles the higher pressures created by high speed pickups commonly used. Straight and 90°-bend Duraport outlets for increased flexibility.

AQUA O_2 CARTRIDGE - AERATOR PUMP

Livewell pumps in 500 GPH and 800 GPH capacities with two possible intake configurations of straight or 90°. Smaller profiles to fit in more confined spaces. Easy to change motor cartridge. Straight and 90°-bend Duraport outlets for increased flexibility.

Seacock Installation



Thru-Hull Installation



Thru-Hull Installation



	500 & 800 GPH	1100 GPH
Length	O_2 - 6.0 in / 152 mm Twinport - 6.0 in / 152 mm	O_2 - 6.1 in / 155 mm Twinport - 6.1 in / 155 mm
Width	O_2 - 3.1 in / 78,6 mm Twinport - 3.1 in / 78,6 mm	O_2 - 3.1 in / 78,6 mm Twinport - 3.1 in / 78,6 mm
Height	7.8 in / 198 mm	8.0 in / 203 mm
Weight	O_2 - 17.4 oz (0,49 kg) 500 GPH / 18.8 oz (0,53 kg) 800 GPH Twinport - 16.4 oz (0,46 kg) 500 GPH / 17.8 oz (0,50 kg) 800 GPH	O_2 - 19.6 oz (0,556 kg) 1100 GPH Twinport - 18.5 oz (0,526 kg) 1100 GPH
Wire Size	16 AWG / 1.31 mm²	
Wire Length	2.46ft / 0,75 m	
Body	Thermoplastic	
Shaft Seal	Lip seal	
Motor Shaft	Stainless steel	

Part No.	Pump Size	Description	Part No. Explanations	Voltage	Amp	Fuse Size	Hose Connection
10-13642-01	500 GPH	Aqua O_2 Cartridge Aerator Pump	Thru-Hull Installation	12 V	2.7 A	3.5A	¾"
10-13649-01		Aqua O_2 Cartridge Twin Port Aerator Pump	Seacock Installation				
10-13643-01	800 GPH	Aqua O_2 Cartridge Aerator Pump	Thru-Hull Installation		3.7 A	5A	
10-13650-01		Aqua O_2 Cartridge Twin Port Aerator Pump	Seacock Installation				
10-13671-01	1100 GPH	Aqua O_2 Cartridge Aerator Pump	Thru-Hull Installation		5.3 A (12 V) 6.1 A (13.6V)	7.5 A	1⅛"
10-13672-01		Aqua O_2 Cartridge Twin Port Aerator Pump	Seacock Installation				
10-13671-02		Aqua O_2 Cartridge Aerator Pump	Thru-Hull Installation	24 V	TBC	TBC	
10-13672-02		Aqua O_2 Cartridge Twin Port Aerator Pump	Seacock Installation				

HIGH FLOW LIVEWELL 4000 CENTRIFUGAL PUMP

This pump is designed to deliver a high quantity of water to keep bait and catch alive and healthy. The livewell 4000 is designed with stainless steel reinforcement for the toughest applications, as well as a heavy duty, long-life motor.

	4000 GPH
Length	8.1 in / 204.5 mm
Width	6.5 in / 165 mm
Height	9 in / 229 mm
Weight	6.2 lbs / 2.8 kg
Wire Size	14 GA / 2 mm^2
Wire Length	5.18 ft / 1.7 m
Wire Length	2.95 ft / 0.9 m
Body	Thermoplastic
Shaft Seal	Mech. seal carbon/ceramic
Motor Shaft	SS2343



Part No.	Description	Voltage	Capacity straight (13.6V/27.2V)	Capacity 1.0 m head (13.6V/27.2V)	Amp	Fuse Size	Hose Connection
32-4003-01	Heavy Duty Livewell Pump 4000 GPH	12 V	3960 GPH / 250 l/min	2603 GPH / 164 l/min	15 A	20 A	1½"
32-4003-02		24 V			7.5 A	15 A	

PRO SERIES LIVEWELL/BAITWELL - AERATOR PUMP

Features heavy duty bronze bottom inlet, 1600 GPH of pumping power, dual port capability, mega torque motor, double ball bearings, quiet running design, 1" NPT female intake. Built for the serious fisherman.



Part No.	Part No. USA	Description	Voltage	Capacity straight (13.6V/27.2V)	Capacity 1.0 m head (13.6V/27.2V)	Amp	Fuse Size	Hose Conn.
32-16004B	16004B	Pro Series Aerator Pump 1600 GPH 12 V	12 V	1600 GPH / 101 l/min	1550 GPH / 98 l/min	7 A	10 A	1⅛" and 1¼"
32-16004B-24	16004B-24	Pro Series Aerator Pump 1600 GPH 24 V	24 V			3.5 A	6 A	

AQUA JET II WASHDOWN 5.2 GPM/ 500 GPH LIVEWELL PUMP KIT

A washdown kit including a high capacity Aqua Jet II Washdown 5.2 (70 psi / 5 bar) pump, a 500 GPH Twin Port Livewell Pump, PUMProtector Inlet Strainer, spray nozzle, bulk head fitting with valve, and 25' / 7.5 meters of coiled washdown hose - all in one package. Aqua Jet washdown/livewell pump kit makes it easy to add a washdown and livewell pump to any boat.

Part No.	Description	Capacity	Pressure Cut Off	Voltage	Fuse Size	Connection	Kit Includes
10-25015-03	Aqua Jet II WD 5.2 GPM/500 GPH 12 V Livewell	5.2 GPM / 20 l/min	73 psi / 5 bar	12 V	20 A	2 Pcs of ⅜" BSP & ½" Hose Barb 2 Pcs of ½" NPT & ¾" Hose Barb 1 Pcs of ½" Small Garden Hose Thread	Pump, filter, 7.5 m coiled hose, bulkhead fitting, pistol and twin, port aerator and two different connectors for the pistol (Threaded or Quick Grip Connector)

*Different versions of BSP & NPT-Klicktite connections available as accessories.



ICE CHEST - AERATOR KIT

Converts any good sized ice chest (Esky) into your own portable live bait tank. The Ice Chest Aerator will keep your live bait alive, or catch fresh, even during the heat of the day. Includes a sturdy First Mate bilge pump, hose, spray bar, press on clamp, battery clamps and clear-cut instructions. Since there are no holes to drill the chest can always be returned to its original purpose.



IN-WELL - AERATOR KIT

The easiest way to add oxygen to your live bait well. Use it as your primary aerator, or to recirculate while you are making a long run across the bay, or if you are trailing the boat, you can stop for fuel and be aerating your catch while the boat is on the trailer. A dependable 500 GPH Cartidge pump forces water through the aerating head to provide vital oxygen for respiration, ensuring your bait stays fresh longer. To empty the well at the end of the day, merely open the valve, activate the pump and water passes through a discharge fitting.



BASSPIRATOR LIVEWELL - AERATOR KIT

Basspirator pumps are designed for serious fishermen who need frequent circulation of fresh water into their livewells and baitwells. As clean water is pumped into the livewell, water and debris pass through the overflow fitting. The kit includes cartridge, 500 GPH Cartridge pump, 7 ft. of 3/4" hose, aerating head, two 1-1/2" overflow fittings and hose, illuminated fuse switch and hose clamps.



Part No.	Part No. USA	Description	Voltage	Capacity straight (13.6V)	Capacity 3 ft (0.9 m) head (13.6V)	Amp	Fuse Size	Hose Conn.
	24052	Ice Chest Aerator Kit	12 V	400 GPH / 30 l/min		2.5 A	5 A	¾"
	60000	Cartridge Style Aerator Kit, Complete With Batt. Clips, Head, Mounting Feet		630 GPH / 40 l/min	525 GPH / 33 l/min			
32-24014	34024	In-well Aerator kit						Straight & 90° ¾"
	34014	Basspirator Livewell Aerating Kit						¾"

Accessories

AERATOR HEADS

Spray head assemblies can be custom made to required fit, size and flow capacity. A variety of shapes, configurations and options allow us to build these aerating heads to your specifications. Prototyping kits available. Shown here are some of the more popularsizes and configurations.

Part No.	Description
70195	Valve Assembly – overall length 5 ¾", two ¾" barbs, shut off valve
90061	Aerator Head – overall length 9"
90191-00	Aerator Head – overall length 13 ¾" thru-hull, one shut off valve
90261	Aerator Head – 2 piece assembly, 8" spray bar with ¾" barb and 6" shut off assembly with ¾" barb and ¾" thru-hull
90331	Aerator Head – overall length 12 ¾", ¾" thru-hull, one shut off valve
90511	Aerator Head– overall length 9 ¾", ¾" thru-hull, one shut off valve
90681-00	Aerator Head – overall length 10 ½", ¾" barb, shut off valve w/bracket
90791	Aerator Head– overall length 6 ¾", ¾" thru-hull, shut off valve
82054	Livewell Control Panel 12 V


82054


90191-00 90061


90791 90511


70195 90261


90681-00 90331

THRU-HULLS

Super tough and durable molded UV stabilized glass coupled polypropylene thru-hulls will not corrode or discolor and are not susceptible to electrolysis.

Part No.	Description
75035-00	Thru-hull ¾" 90° white
75095	Thru-hull ¾" white
75125	Thru-hull 1⅛" white



Accessories

Part No.	Description
71245	Transom Shims
74105-00	Strainer Filter
77125	Intake Filter


71245


74105-00


77125

FLEXIBLE IMPELLER PUMPS DC (FIP)

With their high level of flexibility, these pumps are ideally suited for use in boats as bilge pumps, deckwash pumps, fresh water pumps and refuelling pumps for oil and diesel. These pumps may be combined with a vacuum switch for automatic operation and great for hard to reach places.

Full range of capacities from 4 – 15.5 GPM / 15 – 55 l/min.

Johnson Pump's range of Talulah Ballast Pumps are specifically designed to quickly fill or, when reversed, drain a ballast tank for wake and watersport boats.
Capacities from 13.5 – 30 GPM / 51 – 114 l/min.

All motors are heavy duty to provide long service life even under heavy use. Available in 12 or 24 volts.



34 DC DRIVEN FLEXIBLE IMPELLER PUMPS

F4B-19					Ampere Draw	
bar	kPa	psi	l/min	GPM	12 V	24 V
Count. Duty						
0	0	0	48.0	12.7	12.2	6.5
0.1	10	1.45	45.0	11.9	12.3	6.7
0.2	20	2.9	44.5	11.7	12.2	6.8
0.3	30	4.35	41.0	10.8	13.1	7.1
0.6	60	8.7	34.0	9.0	14.9	7.5
Intermittent Duty						
0.9	90	13.0	25.0	6.6	16.5	7.8
1.2	120	17.4	11.0	2.9	18.3	8.8
Fuse Required					25 A	15 A

36 PRESSURE AND CAPACITY DATA



36 ACCESSORIES





DC Driven Flexible Impeller Pumps

Johnson Pump Flexible Impeller Pumps are truly versatile, general-purpose pumps. The flexible impellers allow the safe passage of small debris, making them ideal for use as bilge or washdown pumps. These pumps are reversible, enabling the transfer of water, oil, or diesel when fitted with Nitrile® impellers. For water only applications, use our MC97/EPDM impellers for extended service life. Polyurethane impellers also available. Johnson Pump offers a wide range of capacities to meet every need.







	F2P10	F3B-19 / F3B-19 Oil	F38B-19	F4B-19 / F4B-11 / F4B-12	Talulah Ballast
Length	6.8 in / 172 mm	6.7 in / 170 mm	7 in / 180 mm	8 in / 202 mm	11 in / 279 mm
Width	4.6 in / 117 mm	4.4 in / 113 mm	4.72 in / 120 mm	4.72 in / 120 mm	6 in / 152 mm
Height	3 in / 78 mm	3.22 in / 82 mm / 4.5 in / 115 mm	3.54 in / 90 mm	3.54 in / 90 mm	3.54 in / 90 mm
Weight	3.5 lbs / 1.6 kg	4.5 lbs / 2 kg	6.6 lbs / 3 kg	6.6 lbs / 3 kg	7.4 lbs / 3.35 kg
Seal	Lip Seal				
Bracket Hole Pattern	Width: 3.5 in / 89 mm | Length: 2 in / 51mm - 0.20 in / Ø5.2 mm				
Wire Size	16AWG / 1.31 mm²			14AWG / 2.08 mm²	12AWG / 3.31 mm²
Wire Length	39.37 in / 1.0 m				11,81 in / 0.3 m

Part No.	Part No. USA	Description	Part No. Explanations	Body	Impeller	Capacity straight (13.6V/27.2V)	Connection**	Amp	Fuse size
10-24886-01		F2P10-19 12 V	Pump only with nitrile impeller for oil, diesel and water	Polyamide	09-1077B-9	4.0 GPM / 15 l/min	External: ½" Hose Barb	5.6 A	15 A
10-24886-02		F2P10-19 24 V						4.0 A	8 A
10-24516-01	10-24516-03	F3B-19 12 V		Bronze	09-843S-9	5.5 GPM / 21 l/min	Internal thread: ⅜" BSP or ⅜"18-NPTF	8.4 A	15 A
10-24516-02	10-24516-04	F3B-19 24 V						4.0 A	8 A
10-24760-01	10-24760-03	F3B-19 Oil Change 12 V	Pumps with reversing switch and nitrile impeller for oil, diesel and water					8.4 A	15 A
10-24760-02	10-24760-04	F3B-19 Oil Change 24 V						4.0 A	8 A
10-24727-01	10-24727-03	F38B-19 12 V	Pump only with nitrile impeller for oil, diesel and water		09-824P-9	9.2 GPM / 35 l/min	Internal thread: ½" BSP or ½" 14-NPTF External: 1" Hose Barb	10.9 A	20 A
10-24727-02		F38B-19 24 V						5.0 A	8 A
10-24689-01	10-24689-03	F4B-19 12 V				12.7 GPM / 48 l/min		12.2 A	25 A
10-24689-02	10-24689-04	F4B-19 24 V						6.5 A	15 A

BALLAST PUMPS

Ballast pumps are designed to quickly transfer water between ballast tanks to adjust the trim of the boat, facilitating skiing / wakeboarding, etc.

F4B-11 ULTRA BALLAST – CAPACITY 13.5 GPM / 52 L/MIN SKI/WAKEBOARD

Designed to quickly fill or, when reversed, drain a ballast tank. Capable of pumping fresh or sea water, the pump's robust design is reversible, and has a built-in thermal overload for added protection.
Polarity reversing switch kit (Part No. 09-47196) available as accessory.
Important! Only for use with water.
If risk of dry-running over 30 sec. use Polyurethane impeller.



09-824P-2

TALULAH BALLAST PUMPS – CAPACITIES 13.5 – 30 GPM / 51 – 114 L/MIN SKI/WAKEBOARD

The Johnson Pump Talulah Series of ballast pumps are designed to quickly fill or, when reversed, drain a ballast tank. The Talulah HF (high flow) is the defining high performance ballast pump for today's wake and watersport boats! Improved impeller compounds designed for short duration dry-run events to keep you on the water longer. Capable of pumping fresh or sea water, reversible, and has a built-in thermal overload for added protection.
Important! Only for use with water.



Talulah HF



09-849P-2

Part No.	Part No. USA	Description	Part No. Explanations	Body	Impeller	Capacity straight (13.6V/27.2V)	Connection**	Amp	Fuse size
10-24690-01	10-24690-03	F4B-11 Ultra Ballast 12 V	Pumps with MC97-impeller for water. Higher flow then polyurethane, but not as good at reversing and dry running.	Bronze	09-824P-1	14.0 GPM / 54 l/min	Internal thread: ½" BSP or 14-NPTF External: 1" Hose Barb	14.5 A	30 A
10-24690-02	10-24690-04	F4B-11 Ultra Ballast 24 V					Internal thread: ½" BSP External: 1" Hose Barb	7 A	15 A
10-24690-09		F4B-12 Ultra Ballast 12 V	Pumps with Polyurethane Impeller for water. Good a reversing back and forth and when risk of dry-running over 30 sec.		09-824P-2	13.5 GPM / 52 l/min	Internal Thread: ½" BSP External: 1" Hose Barb	12 A	25 A
10-24690-10		F4B-12 Ultra Ballast 24 V					Internal Thread: ½" BSP External: 1" Hose Barb	4.8 A	15 A
	10-24690-18	F4B-12 Talulah Ballast Pump 12 V					Internal thread: ½" 14-NPTF External: 1" Hose Barb	14 A	25 A
10-24939-18	10-24939-18	F45-12 Talulah HF Ballast Pump 12 V			09-849P-2	30.0 GPM / 113 l/min	External thread: 1 ½" NPTF	25 A	50 A

Pressure and Capacity Data (BASED ON WATER AT 68˚F / 20˚C)

F2P10-19					Ampere Draw	
bar	kPa	psi	l/min	GPM	12 V	24 V
Count. Duty						
0	0	0	15.0	4.0	5.6	4.0
0.1	10	1.45	14.5	3.8	5.7	4.0
0.2	20	2.90	14.0	3.7	5.8	4.1
0.3	30	4.35	13.5	3.6	5.9	4.1
0.6	60	8.7	11.0	2.9	6.1	4.2
Intermittent Duty						
0.75	75	10.8	9.6	2.5	6.5	4.3
0.9	90	13.0	7.0	1.8	6.5	4.8
Fuse Required					15 A	8 A

F3B-19					Ampere Draw	
bar	kPa	psi	l/min	GPM	12 V	24 V
Count. Duty						
0	0	0	21.0	5.5	8.4	4.0
0.1	10	1.45	20.5	5.4	8.5	4.0
0.2	20	2.9	20.0	5.3	8.6	4.1
0.3	30	4.35	19.5	5.2	8.8	4.1
0.6	60	8.7	17.8	4.7	9.0	4.2
Intermittent Duty						
0.9	90	13.0	15.6	4.1	9.6	4.3
1.2	120	17.4	12	3.2	10.3	4.8
Fuse Required					15 A	8 A

F38B-19					Ampere Draw	
bar	kPa	psi	l/min	GPM	12 V	24 V
Count. Duty						
0	0	0	35.0	9.2	10.9	5.0
0.1	10	1.45	33.8	8.9	11.0	5.1
0.2	20	2.9	32.2	8.5	11.0	5.1
0.3	30	4.35	31.0	8.2	11.1	5.2
0.6	60	8.7	25.5	6.7	11.9	5.4
Intermittent Duty						
0.9	90	13.0	15.3	4.0	13.6	6.0
1.2	120	17.4	2.0	0.5	15.8	7.1
Fuse Required					20 A	8 A

F4B-19					Ampere Draw	
bar	kPa	psi	l/min	GPM	12 V	24 V
Count. Duty						
0	0	0	48.0	12.7	12.2	6.5
0.1	10	1.45	45.0	11.9	12.3	6.7
0.2	20	2.9	44.5	11.7	12.2	6.8
0.3	30	4.35	41.0	10.8	13.1	7.1
0.6	60	8.7	34.0	9.0	14.9	7.5
Intermittent Duty						
0.9	90	13.0	25.0	6.6	16.5	7.8
1.2	120	17.4	11.0	2.9	18.3	8.8
Fuse Required					25 A	15 A

F45B				Ampere Draw				
				12 V			13.6V	
bar	kPa	ft	kW	l/min	GPM	kW	l/min	GPM
0.3	30	10.1	0.246	81.0	21.4	0.340	96.0	25.0
0.6	60	20.1	0.290	49.5	13.1	0.408	72.0	19.0

F5B-19					Ampere Draw	
bar	kPa	psi	l/min	GPM	12 V	24 V
Count. Duty						
0	0	0	55.0	14.5	23.2	11.9
0.3	30	1.45	49.4	13.1	24.2	12.8
0.6	60	8.7	39.9	10.5	25.1	13.3
0.9	90	13.0	30.1	8.0	26.2	14.0
1.2	120	17.4	19.3	5.1	28.0	14.7
1.5	150	21.76	9.3	2.4	29.8	15.3
Fuse Required					**50 A**	**25 A**
Recommended wire size					16 mm^2	6 mm^2

Accessories

Accessories to complement your Johnson Pump Flexible Impeller DC Pumps: Oil Change capabilities, switches for ease of use, and Deck Wash Kit.

OIL CHANGE KIT

Suitable for both F2P10-19 (connection ½" hose) and F3B-19 (connection ⅜"). Complete with oil dip stick extraction tube 0.23 in and 0.31 in / 6 mm and 8 mm. Total hose length 94.5 in / 240 cm (47.2 in + 47.2 in / 120 cm +120 cm).





F2P10



F3B-19

POLARITY REVERSING SWITCH KIT FOR ULTRA BALLAST PUMP F4B-11

Flexible Impeller Pumps can be reversed simply by switching the positive and negative leads to the electric motor. With the Polarity Reversing Switch Kit, this process is as easy as pressing a single switch.



VACUUM SWITCH

The vacuum switch is compatible with all self-priming impeller pumps and helps protect the pump from running dry. It is recommended for applications such as bilge pumping or emptying tanks. The switch automatically shuts the pump off once the bilge or tank is empty, preventing damage. When installed, the pump can be started either by a remote push button or manually by pressing the lever on the switch.



- For automatic shut off operation
- To prevent pump damage

DECKWASH KIT F4B-19

Convert your F4B-19 pump into a deck wash pump.



- Trigger nozzle
- Pressure switch for turning the pump on and off when the trigger nozzle is activated
- Check valve

Part No.	Description	For Pump(s)	Part No. Explanations	Rating
09-824P-2	Talulah Ballast Pump Impeller Kit F4	10-24690-09, -10 & -18	For Water	
09-824P-9	Impeller Kit F4 Nitrile	10-24727-01, -02, -03 10-24689-01, -02, -03, -04	For Oil, Diesel & Water	
09-849P-2	Talulah HF (High Flow) Ballast Pump Impeller Kit F45	10-24939-18	For Water	
09-824P-1	Impeller Kit F4 MC 97	10-24690-01, -02, -03 & -04		
09-1077B-9	Impeller Kit F2 Nitrile	10-24886-01 & -02	For Oil, Diesel & Water	
09-843S-9	Impeller Kit F3 Nitrile	10-24516-01, -02, -03 & -04 10-24760-01, -02, -03 & -04		
09-47616	Oil Change Kit			
09-47196	Polarity Reversing Switch Kit	All DC FIP Pumps	Switching polarity means running pump & flow in reversed direction	Contact rating: 20 amps 4-14 V 15 amps 15-28V
09-45053	Vacuum Switch	FIP DC: - F3B, F38B & F4B FIP F7B: - F9B	Preventing dry running by shutting off the motor	
09-46553	Deck Wash Kit	F4B-11 or F4B-19	Incl. pressure switch (1-5 bar) to set cut-off pressure, check valve and Spray Pistol.	

DC DRIVEN OIL CHANGE KITS

65F3B: The portable oil change bucket features the reliable, heavy duty F3B-19 flexible impeller pump with integrated flow reversing switch. The F3B-19 Oil Change Bucket from Johnson Pump provides your service shop with a dependable and long lasting oil change solution.

60500: Light and compact oil change pump, for the quick and easy portable oil change option. Includes all necessary hosing, dipstick tube, alligator clips and connectors.



80-47508-01
80-47508-02



65000



65F3B

Part No. USA	Description
80-47508-01	Gear Pump Only Oil Change Kit 12 V
80-47508-02	Gear Pump Only Oil Change Kit 24 V
65000	Oil Change Kit With Pail Gear Pump 12 V
65F3B	Oil Change Kit With Pail F3B-19 Pump 12 V

FLEXIBLE IMPELLER PUMPS AC (FIP)

Washdown, Fire Fighting, Septic Handling and Circulation Pumps.

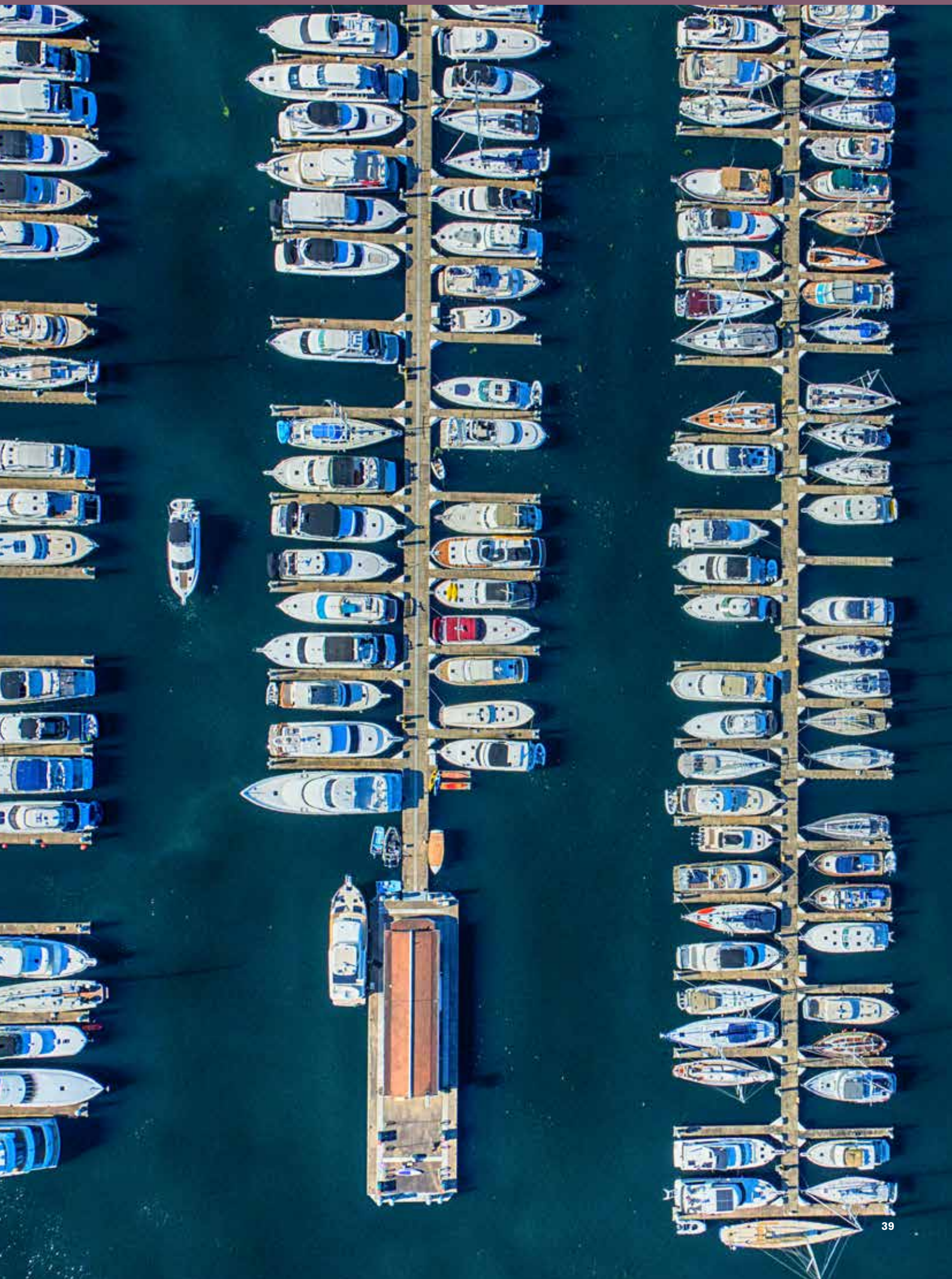
Through their versatility and flexible design, these AC-powered Flexible Impeller Pumps can be customized uniquely for each area of application. The pumps handle most liquids and slurries. In the marine environment the pumps are specially suitable for bilge, washdown, fire fighting, septic handling and water circulation duties.



40 FLEXIBLE IMPELLER PUMPS (FIP) AC



FIP-series
Contact us for information about latest standards.

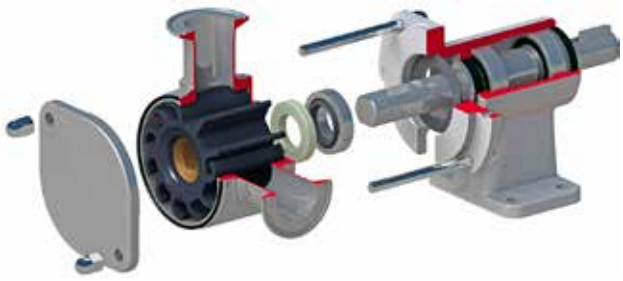


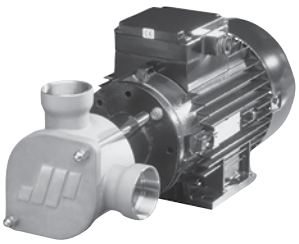
Flexible Impeller Pumps AC (FIP)

The pumps are characterized by their ease of service and maintenance. For 3-phase power source we offer the FIP20, FIP25, FIP40, FIP50 and the FIP65. Additionally, the FIP20, FIP25 and the FIP40 are available for single-phase power.

The capacities range from 5.3 GPM to 130 GPM / 20 l/min to 490 l/min. Contact your sales representative to help configure the right FIP pump for your needed requirement.

Advantages of FIP	
Excellent self-priming capacity	A dry pump has a suction lift up to 5 meters within a few seconds.
Pulsation free and reversible flow	The FIP-pump gives a uniform flow without pulsation.
Compact design	The FIP has minimal outer dimensions compared to its capacity, which simplifies space and installation requirements.
Easy maintenance and quick to clean	Unique 3-piece design reduces maintenance and cleaning time to a minimum.





THE FIP STAINLESS STEEL VERSION

The FIP Stainless Steel line allows for a wide range of pump capacities for both hygienic and non-hygienic applications.

FIP40SI

Suitable for discharge of septic tank. Motor sold separately.*

Part No.	Description	Body	Connection	Impeller	Shaft	Shaft seal	Shaft end
To be Configured	FIP40SI-BSP02M01F90	Stainless steel	BSP	Neoprene	Double flat	Mechanical	Flange

* Motors for the FIP pumps are available as 4-, 6- or 8-pole with speeds between 700-1450 RPM.



THE FIP BRONZE VERSION

Bronze pump for liquids such as saltwater, mineral oils, slurries, additives or abrasive products.

FIP25B

Suitable for washdown, bilge, water circulation, etc. Motor sold separately.*

Part No.	Description	Body	Connection	Impeller	Shaft	Shaft seal	Shaft end
To be Configured	FIP25B-BSP00M01F80	Bronze	BSP	Neoprene	Double flat	Mechanical	Flange

* Motors for the FIP pumps are available as 4-, 6- or 8-pole with speeds between 700-1450 RPM.

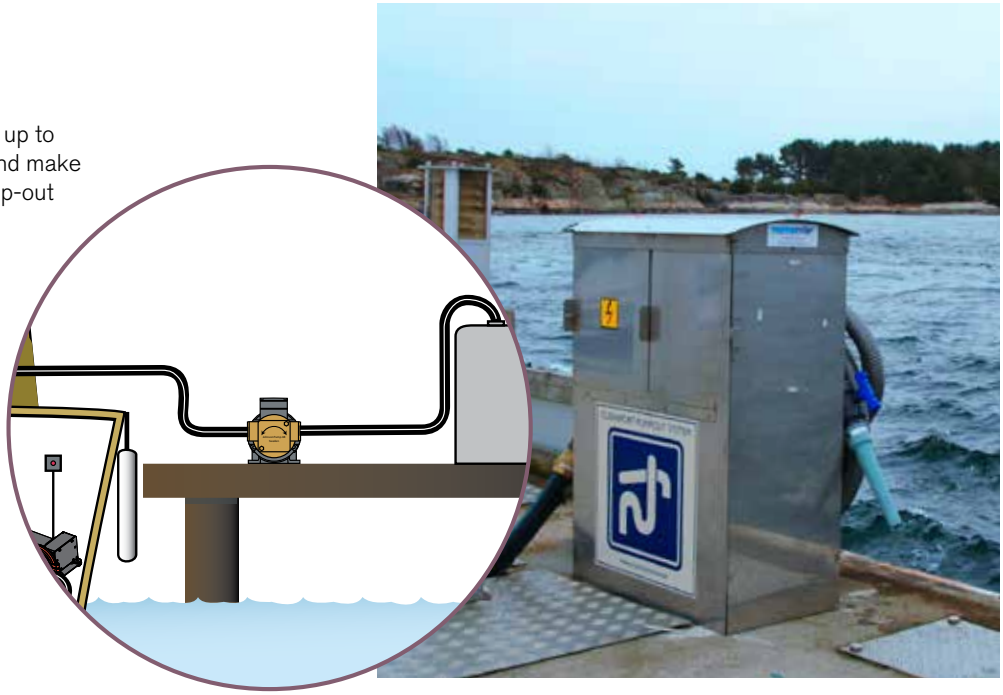
FIP40B

Suitable for washdown, bilge, water circulation, fire fighting reserve, etc. Motor sold separately.*

Part No.	Description	Body	Connection	Impeller	Shaft	Shaft seal	Shaft end
To be Configured	FIP40B-BSP00M01F90	Bronze	BSP	Neoprene	Double flat	Mechanical	Flange

* Motors for the FIP pumps are available as 4-, 6- or 8-pole with speeds between 700-1450 RPM.

FIP AC pumps' capability for suction lift up to 16.4 ft / 5 m and for pumping slurries and make them ideal for use in septic system pump-out stations dockside.



FIP MODEL SPECIFICATIONS

Example: FIP 20 SH – DIN 4 2 M01 P80
1 2 3 4 5 6 7 8

1. Family name
FIP = Flexible Impeller Pump

2. Pump size
20 25 40 50 65
Average inlet and outlet port diameter, mm

3. Material of pump body and cover
SH = Stainless steel, hygienic version
SI = Stainless steel, industrial version
B = Bronze

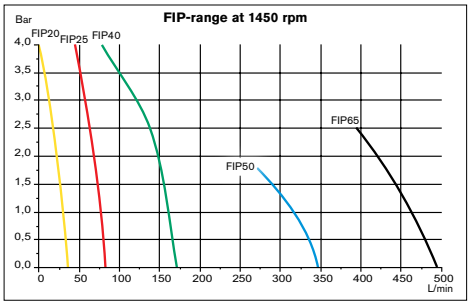
4. Port/connection
FIP 20/25SI, FIP 25/40B
BSP = BSP thread/hose combination
NPTF = NPTF thread/hose combination*
FIP 40/50/65SI
BSP = BSP thread
NPTF = NPTF thread*
* NPTF available on request.
FIP 20/25/40/50/65SH
DIN = DIN 11851
SMS = SMS 1145
PLN = Plain without threaded ports
CLP = Clamp according to SMS 3017 (TriClamp)

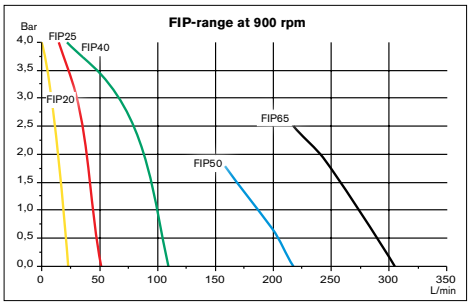
5. Impeller code*
0 = Neoprene industrial version – standard pressure
3 = EPDM, FDA, food grade – high pressure
4 = Neoprene, FDA, milk grade
6 = Neoprene, industrial version – high/intermediate pressure
7 = EPDM, FDA, food grade – standard pressure
9 = Nitrile, splined drive – standard pressure
* Impeller options are dependent on pump.

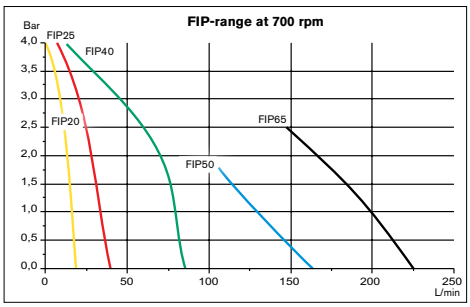
6. Shaft
Bronze
0 = Splines – Stainless steel
Stainless steel pumps
0 = Splines – Stainless steel
2 = Double flat – Stainless steel

7. Shaft seals
M = Single mechanical seal
L = Lip seal
Material of single mechanical seals
01 = Carbon/ceramic/nitrile
03 = Silicon carbide/silicon carbide/FPM (DIN/ISO) / FKM (ASTM) (on request only)
06 = FDA Approved mechanical seal

8. Shaft end
P = Pedestal
F = Flange for IEC motor
80 = FIP 20/25– Pedestal; shaft height, mm Flange; IEC motor size
90 = FIP 40 – Pedestal; shaft height, mm Flange; IEC motor size
100 = FIP 50 – Pedestal; shaft height, mm Flange; IEC motor size
112 = FIP 65 – Pedestal only; shaft height, mm







CIRCULATION PUMPS

Circulation Pumps from Johnson Pump meet the demands from the Marine, Automotive and other Industrial applications. Our pumps have been found to be highly reliable in Battery Thermal Management Systems in E-drive applications, as well as in heating and cooling systems on Boats, Trains, Buses, Motor homes and other Commercial Vehicles.

TYPE	KEY FEATURES	BENEFITS AND ADVANTAGES
CM100, CM95 & C096	Brushless Motor	Engineered for long life expectancy: CM100 & CM95: up to 40,000 hours C096: up to 10,000 hours CM100: PWM C096 & CM95: PWM / LIN Bus Conformal coating on electric components
CM-Series	Magnetically Driven	Leak-free operation, Long life expectancy Dry running protection (CM100 & CM95)
C0-Series	Mechanical Drive and Seal	C096: Marine-grade design, engineered to withstand raw water C090: Automotive-grade-design, engineered for water/glycol mixture.
CM & C0-Series	IP-Rating	**CM100, C096 & CM95:** IP6K9K and IP67 **CM90, C090, CM30 & CM10:** IP67 **IP6K9K and IP67:** Reliable function in toughest environments Water-proof as well as dust-proof Withstands high pressure/steam jet cleaning. **IP67:** Reliable function in toughest environments Water-proof as well as dust-proof Withstands powerful water jets used during maintenance and even submersion up to 30 minutes.
CM100, CM95,CM90, CM30, CM10	UNECE R10 (EMC)	Reliable function in toughest environments Complies with relevant EMC regulations and directive(s) Increased reliability, reduced warranty issues and service costs.
CM95	E-mark	E-mark designation for compliance with relevant regulations.
CM30 & CM10	Small Footprint	Direct replacement for OE intercooler circulation pump Perfect for Turbocharged or Supercharged Intercooler applications.



44 CIRCULATION PUMPS- MAGNETIC DRIVEN PUMPS



46 CIRCULATION PUMPS - MECHANICAL DRIVEN PUMPS

Contact us for information about latest standards for Circulation pumps. CE

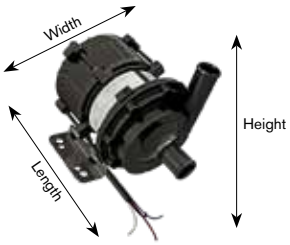


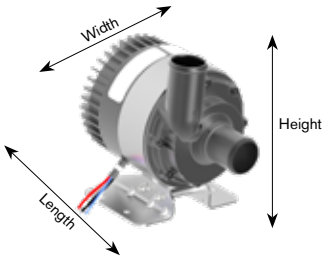


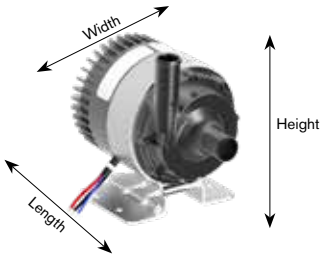
DC Driven Circulation Pumps

Johnson Pump offers a high quality range of circulation pumps that meet the demands for boats, trains, buses, commercial vehicles, recreational vehicles and motor homes related to heating and cooling systems, as well as in battery thermal management systems in E-drive applications.

CIRCULATION PUMPS WITH BRUSHLESS MOTORS







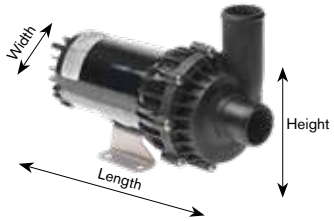
	CM 95HP	CM 100HF	CM 100HP
Pump Body	Black Anodized Aluminium		
Impeller	PPS GF	PA 12	PA 12
Shaft	Hardened Stainless Steel		
Motor	Permanent magnet brushless motor with ball bearings and electronics included (IP6K9K & IP67)		
Motor Service life	40.000h at nominal voltage and ambient temp of 104°F / +40°C		
Liquid	Water/glycol mixture; max. 60% glycol, fresh water		
Bracket Hole Pattern	Width 4.52" / 115 mm or 4.33" / 110 mm | Length: 2.36" / 60 mm or 1.57" / 40 mm - 0.35" / Ø9 mm or 0.27" / Ø7 mm		
Wire Size	CM100: Black / Red Wire: 12 AWG (3.31 mm²) - White / Blue (PWM): 16 AWG (1.31 mm²) CM95: Black / Red Wire: 14 AWG (2.08 mm²) - White / Blue (PWM): 20 AWG (0.52 mm²)		
Wire Length	19.68" / 0.5 m		
Length	(Ø25 Version): 8.2" / 208 mm (Ø38 Version): 8.4" / 214 mm	7.5" / 191 mm	(Ø25 Version): 7.3" / 186 mm (Ø38 Version): 7.5" / 191 mm
Width	5.3" / 135 mm	5.3" / 135 mm	5.3" / 135 mm
Height	6.4" / 162 mm	7" / 179 mm	7" / 179 mm
Weight	7 lbs / 3.2 kg	8.6 lbs / 3.9 kg	8.6 lbs / 3.9 kg

Part No.	Description	Capacity 0.6 bar (20 ftH₂O)	Capacity 1.0 bar (33.45 ftH₂O)	Hose Conn.	Voltage	Amp	Fuse Size
10-13606-10	CM95HP AL-1BL 27.2V D25	19.8 GPM / 75 l/m	9.8 GPM / 37 l/m	1" / 25 mm hose	27.2 V	10.5A	20-25A
10-13607-10	CM95HP AL-1BL 27.2V D38	20.6 GPM / 78 l/m	11.3 GPM / 43 l/m	1 ½" / 38 mm hose		10.8A	
10-13576-02	CM100HP AL-1BL 27.2V D25	27.3 GPM / 103 l/min	22.5 GPM / 85 l/min	1" / 25 mm hose		16.4A	25-30A
10-13577-02	CM100HP AL-1BL 27.2V D38	27.3 GPM / 103 l/min	22.5 GPM / 85 l/min	1 ½" / 38 mm hose			

Part No.	Description	Capacity 0.4 bar (13.38 ftH₂O)	Capacity 1.0 bar (33.45 ftH₂O)	Hose Conn.	Voltage	Amp	Fuse Size
10-13578-02	CM100HF AL-1BL 27.2V D38	35.6 GPM / 135 l/min	15.36 GPM / 58 l/min	1 ½" / 38 mm hose	27.2 V	14.9A	25-30A

CIRCULATION PUMPS WITH BRUSHED MOTORS

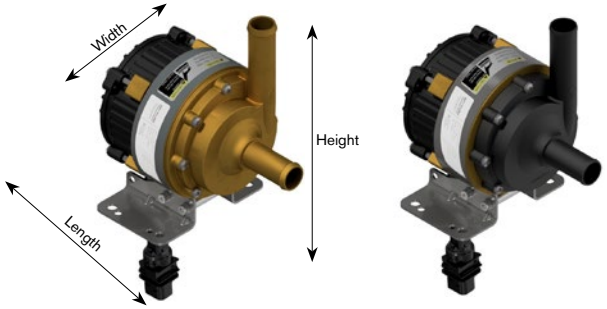




	CM10 / CM30	CM90
Pump Body	PPA, Thermoplastic	PPA, fibergalss reinforced
Impeller	PPA, Thermoplastic	PA 12
Shaft	Stainless Steel	Stainless Steel
Motor	12/24 V DC enclosed (as per IP67) permanent magnet, ball bearing mounted motor, designed for continuous operation	12/24 V DC enclosed (as per IP67) permanent magnet, ball bearing mounted motor, designed for continuous operation
Motor Service life	3.000h at nominal voltage and 86°F / +30°C ambient temp.	10.000h at nominal voltage and 86°F / +30°C ambient temp.
Liquid	Water/glycol mixture; max. 60% glycol, fresh water	Water/glycol mixture; max. 60% glycol, fresh water
Length	6.97" / 177 mm	10"/ 255 mm Ø20 / 9.96"/ 253 mm Ø38
Width	2.68" / 68 mm	4.7"/ 120 mm
Height	3.35" / 85 mm	Ø25 Version: 5.5" / 140.5 mm Ø38 Version: 5.9" / 149.5 mm
Weight	1.2 lbs / 0.53 kg / 1.3 lbs / 0.6 kg	Ø25 Version: 6.6 lbs / 3.0 kg Ø38 Version: 8.6 lbs / 3.9 kg
Bracket Hole Pattern	Width 1.95" / 49.5 mm - 0.27"/ Ø7 mm	Width 2.75"/ 70 mm / Length: 1.77"/ 45 mm - 0.27-0.39"/ Ø7-10 mm
Wire Size	15 AWG (1.5 mm²)	15 AWG (1.5 mm²)
Wire Length	39.37" / 1 m	39.37" / 1 m

Part No.	Description	Capacity 0.1 bar (3.4 ftH₂O)	Capacity 0.25 bar (8.4 ftH₂O)	Port size	Voltage	Amp	Fuse Size
10-24750-09	CM90P7-1	17.2 GPM / 65 l/min	13.2 GPM / 50 l/min	¾" / 20 mm	13.6V	8.5A	12A
10-24750-10					27.2V	4A	6A
10-24664-09		23.7 GPM / 90 l/min	17.2 GPM / 65 l/min	1 ½" / 38 mm	13.6V	10A	12A
10-24664-10					27.2V	4.6A	6A
10-24503-03	CM30P7-1	5.3 GPM / 20 l/min	N/A	⅝" / 16 mm	12 V	1.9A	3A
10-24503-04					24 V	0.9A	1.6A
10-24504-03		6.9 GPM / 26 l/min		¾" / 20 mm	12 V	1.9A	3A
10-24504-04					24 V	0.9A	1.6A
10-24501-03	CM10P7-1	4 GPM / 15 l/min		⅝" / 16 mm	12 V	1.2A	1.6A
10-24501-04					24 V	0.6A	0.8A
10-24502-03		5 GPM / 18,5 l/min		¾" / 20 mm	12 V	1.2A	1.6A
10-24502-04					24 V	0.6A	0.8A





	C090	C096
Pump Body	P66, Thermoplastic	Brass / Plastic
Impeller	P66, Thermoplastic	PPS-GF30
Shaft	Stainless Steel	Stainless Steel (316)
Shaft Seal	Mechanical seal	Mechanical seal
Motor	12/24 V DC enclosed (as per IP31) permanent magnet, ball bearing mounted motor, designed for continuous operation	Brushless DC motor 27.2V
Motor Service life	3.000h	10.000h
Liquid	Water/glycol mixture; max. 60% glycol, fresh water	Raw/Sea water
Length	8.3" / 211 mm	7.85" / 197.8 mm
Width	4.6" / 117 mm	6.94" / 174.9 mm
Height	4.8" / 116 mm	6.2" / 156.3 mm
Weight	3.8 lbs / 1.75 kg	9.77 lbs / 4.5 kg
Bracket Hole Pattern	Width 4.52" / 115 mm or 4.33" / 110 mm Length: 2.36" / 60 mm or 1.57" / 40 mm - 0.35" / Ø9 mm or 0.27" / Ø7 mm	Width 4.52" / 115 mm or 4.33" / 110 mm Length: 2.36" / 60 mm or 1.57" / 40 mm - 0.35" / Ø9 mm or 0.27" / Ø7 mm
Wire Size	15 AWG (1.5 mm²)	Black / Red Wire: 14 AWG (2.08 mm²) - White / Blue (PWM): 20 AWG (0.52 mm²)
Wire Length	39.37" / 1 m	19.68" / 0.5 m

Part No.	Description	Capacity Straight	Capacity 1.3 Bar	Port size	Voltage	Amp	Fuse Size
10-13656-02	C096 Plastic	31.7 GPM / 120 l/min	14.5 GPM / 55 l/min	1" / 25 mm hose	27.2V	2.83 A	5A
10-13656-03	C096 Brass						

Part No.	Description	Capacity 0,1 bar (3.4 ftH₂O)	Capacity 0.25 bar (8.4 ftH₂O)	Port size	Voltage	Amp	Fuse Size
10-24190-1	C090P5-1	26.4 GPM / 100 l/min	26.4 GPM / 67 l/min	1 ½" / 38 mm hose	12 V	7.4A	10A
10-24190-2	C090P5-1	26.4 GPM / 100 l/min	26.4 GPM / 67 l/min	1 ½" / 38 mm hose	24 V	4.4A	6A

PERFORMANCE MATTERS

INTRODUCING THE NEXT GENERATION OF MARINE PUMPS, THE AQUA O² AERATOR AND AQUA VOID BILGE PUMPS.



These newly redesigned pumps all come equipped with an industry first, IP68 rated waterproof 2-Pin Deutsch connector, making motor cartridge replacement or capacity upgrades fast, easy and hassle free. No more cutting or splicing wires, the quick-change plug-n-play connectors save you time and money. Aqua Series pumps include a 3-year warranty and are available in 500 or 800 GPH capacities

Johnson Pump®
SPXFLOW

johnsonpumpmarine.com

WASTEWATER HANDLING & MARINE TOILETS

Johnson Pump offers wastewater pump solutions, designed to meet the rigorous demands of the leading manufacturers of boats, recreational vehicles and buses.

From a name you can trust, the AquaT toilet provides comfort and convenience at sea. Our marine toilets come with a soft close seat and lid. Choose between electric powered or manual model, and comfort or compact seat sizes.

In combination with the Viking Power 16 or 32 and a Grey Water Tank you will have a complete wastewater handling system.



50 WASTEWATER HANDLING



53 MARINE TOILETS



55 SPARE PARTS

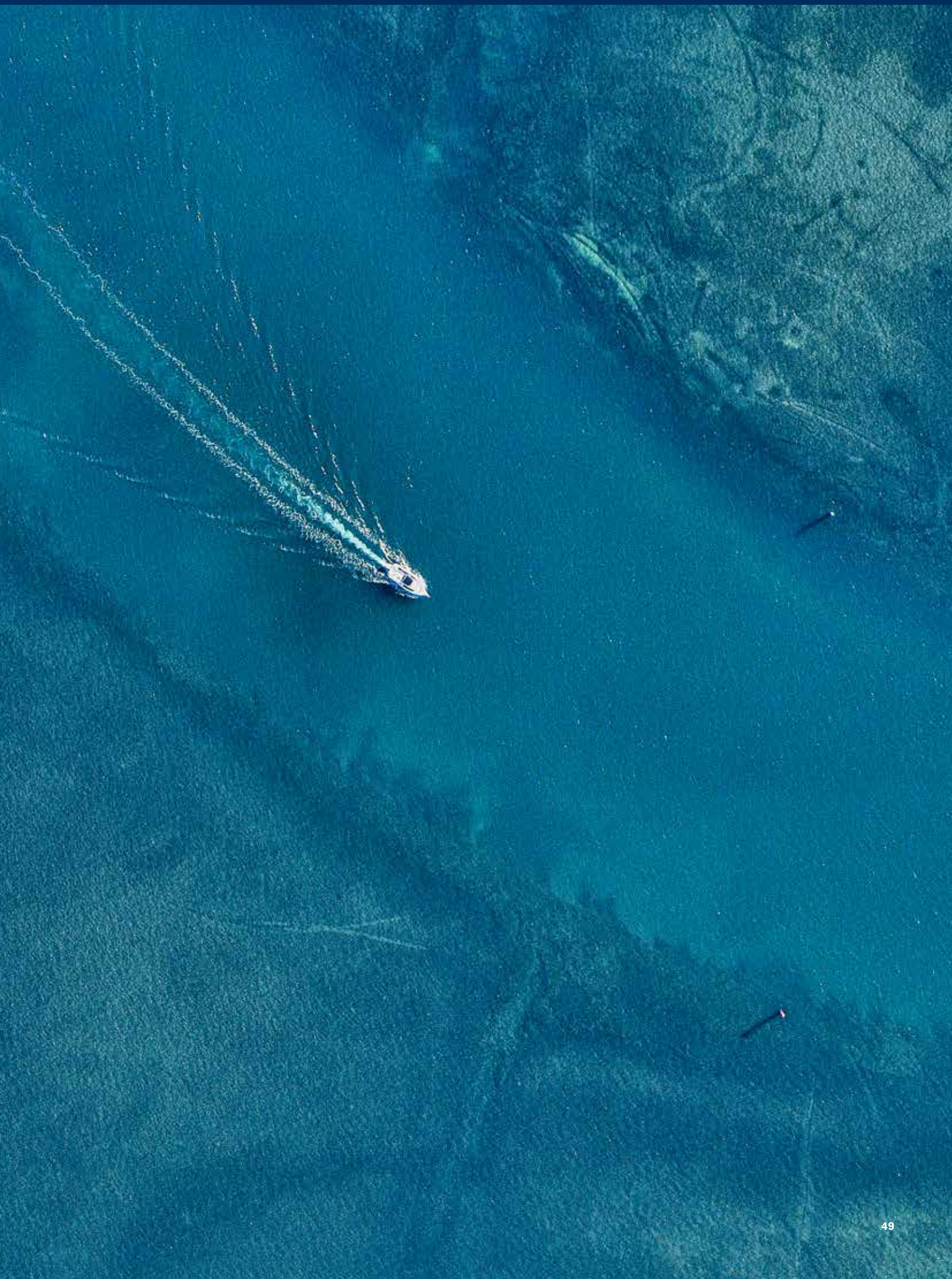


56 ACCESSORIES

CE

Viking Power
ISO8846
ISO10133
ISO8849
EN55014

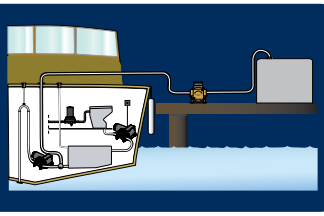
AquaT Silent Electric and Standard Electric
ISO8846
EN55014

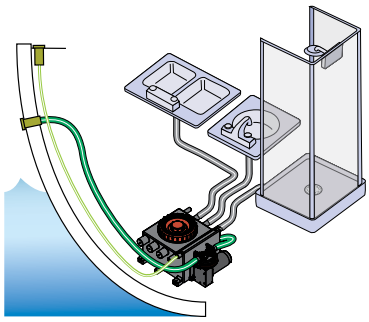


Wastewater Handling

Johnson Pump offers wastewater pump solutions, designed to meet the rigorous demands of the leading manufacturers of boats, recreational vehicles and buses.

The Viking Power Pump series has been designed to meet the rigorous demands of the world's leading manufacturers of boats, recreational vehicles and buses. Thanks to its single-chamber design and non-choke valves, the Viking Power Pumps can be used to pump un-macerated sewage to a holding tank or transfer it onwards to a septic tank.





Grey Water Tank with Viking Power 16







	VP 16	VP 32	VP VACUUM
Motor	2.3 amp (12 V), 1.2 amp (24 V) at 0.1 bar 12/24 V DC (with built-in thermal protection)	3.3 amp (12 V), 1.6 amp (24 V) at 0.1 bar 12/24 V DC (with built-in thermal protection)	3.3 amp (12 V),1.6 amp (24 V) at 0.1 bar 12/24 V DC (with built-in thermal protection)
Body	Nylon, glass-fiber reinforced	Nylon	Nylon
Valves	Nitrile rubber	Nitrile rubber	Nitrile rubber
Diaphragm	Reinforced nitrile rubber	Reinforced nitrile rubber	Reinforced nitrile rubber
Length	7.3" / 186 mm	10.9" / 277 mm	14" / 357 mm
Width	8.9"/7.1" / 227/181 mm*	10.4" / 264 mm	10.7" / 271 mm
Height	4.6/8"/ 117/204 mm*	7.6"/ 192 mm	7.6" / 192 mm
Weight	5.7 lbs / 2.6 kg	11.0 lbs / 5.0 kg	11.2 lbs / 5.1 kg
Wire Size	16AWG / 1.31 mm²	14 AWG / 2.08 mm²	
Wire Length	39.37" / 1.0 m		
Bracket Hole Pattern	Width 3.54" / 90 mm Length: 3.54" / 90 mm - 0.63" / Ø16 mm	Width 5.47" / 139 mm Length: 5.47" / 139 mm - 0.63" / Ø16mm	

* Depending on the mounting choice

		Differences				
Viking Power	**Voltage**	**Check-Valves**	**Motor**	**Pump head**	**Max lift:**	**Max head**
16	12 & 24 V	Check-Valve on discharge port	Rotateable motor	The pump head & ports can be rotated on any angle to match existing plumbing.	9.8 ft / 3 m	9.8 ft / 3 m
32		No check valves	Non rotateable motor		8.2 ft / 2.5 m	13.1 ft / 4 m
Vacuum		Double check-valves on the suction & discharge ports preventing blockages at the internal flapper valve.			16.4 ft. / 5 m	13.1 ft / 4 m

Part No.	Description	Capacity, open flow	Capacity at 0.1 bar	Max lift	Max head	Connection	Voltage	Fuse
10-13350-03	Viking Power 16	4.2 GPM / 16 l/min	4.0 GPM / 15 l/min	9.8 ft / 3 m	9.8 ft / 3 m	1" and ¾" KlickTite XL connectors, 90° (Optional)	12 V	8A
10-13350-04							24 V	5A
10-13373-03	Viking Power 32	8.5 GPM / 32 l/min	7.9 GPM / 30 l/min	8.2 ft / 2.5 m	13.1 ft / 4 m	1½" / 38 mm	12 V	12A
10-13373-04							24 V	6A
10-13373-07	Viking Power Vacuum	6.3 GPM / 24 l/min	5.8 GPM / 22 l/min	16.4 ft / 5 m	13.1 ft / 4 m	1½" / 38 mm	12 V	12A
10-13373-08							24 V	6A

SHOWER SUMP MULTIPORTS

This compact shower sump system is designed to meet the higher demands from today's boating industry, where more equipment is used. Efficiently handles the waste generated by water systems onboard, including showers, dishwashing machines, galley sinks, etc. The shower sump, equipped with a 1000 GPH Cartridge Bilge Pump and electronic automatic switch, Ultima Switch, turns on/off automatically using the Ultima Switch technology and has multiple inlet ports for handling waste water from more than one tapping point. The check valve on the outlet stops water from flowing back into the tank. The tank has a tight-fitting lid to minimize splashing and odors. To further aid in cleaning, the system includes an easily removable mesh filter.



Length x Width (with connections)	11.42 x 8.26" / 290 x 211 mm
Max Height	5.7" / 140 mm
Weight	2.3 lbs / 1.04 kg

Part No.	Description	Capacity straight (13.6V/27.2V)	Capacity 3 ft (0.9 m) head (13.6V/27.2V)	Amp	Fuse Size	Intake connection	Discharge connection
32-57151-01	Shower Sump Multiports 1000 GPH 12 V	972 GPH / 61 l/min	844 GPH / 53 l/min	3.2 A	5 A	1x ¾", 1x¾" or 1x1"	¾"
32-57151-02	Shower Sump Multiports 1000 GPH 24 V	972 GPH / 61 l/min	844 GPH / 53 l/min	2 A	3 A	1x1⅛" or 1x1½"	¾"

GREY WATER TANK

The Grey Water Tank is designed to be used as a collection tank for wastewater from showers, sinks, dishwashing machines, etc. with 0.75 in / 19 mm, 1 in / 25 mm and 1.5 in / 38 mm inlet ports and 0.75 in / 19 mm and 1 in / 25 mm outlet ports. The tank includes an Ultima Switch for automatic operation and is easy to connect to any 12 V/24 V pump up to 20 amp. The tank is prepared for Viking Power 16, with pre-drilled holes for the pump. Note: The Viking Power 16 pump is to be ordered separately.



Height	7.3" / 185 mm	
L x W - with pump	**L:** 15.6" / 397 mm	**W:** 13.4" / 340 mm
L x W - without pump	**L:** 11" / 280 mm	**W:** 13.4" / 340 mm

Part No.	Description	Dimensions
09-13384	Grey Water Tank	11"x13.4" / 280x340 mm

Port		Drill Diameter	
Imperial	Metric	Imperial	Metric
¾"	19 mm	7/16" - 9/16"	12-14 mm
1"	25 mm	5/8" - ¾"	17-19 mm
1½"	38 mm	1⅛" - 1¼	30-32 mm

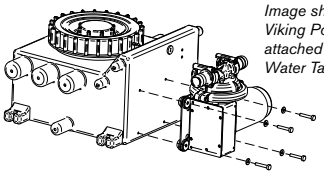


Image shown with Viking Power 16 attached to a Grey Water Tank.

TA3P10-19 - MACERATOR PUMP

The TA3P10-19 Macerator Pump takes care of toilet waste. A rotary cutter shreds waste before it is pumped into or out from the holding tank. Connect to the holding tank discharge outlet, preferably positioned below the tank, to ensure optimal performance, even though the pump is self-priming. *Note! Use unbleached lavatory paper only.*

	Macerator
Motor	12/24 V DC (with built-in thermal protection)
Body	Phenol Plastic (PF)
Impeller	Nitrile 09-1052S-9
Housing	Thermoplastic Polyester (PET)
Shaft	Stainless Steel
Seal	Lip Seal
Length	10.08" / 256 mm
Width	14.70" / 19,5 mm
Height	3.35" / 85 mm
Weight	4.2 lbs / 1.9 kg



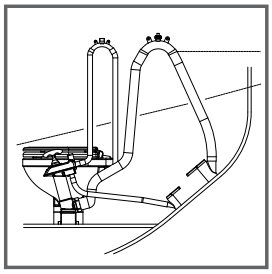
Part No.	Part No. USA	Description	Capacity at	Inlet Connection	Outlet Connection	Voltage	Amp	Fuse size
	10-24453-01	TA3P10-19 Macerator	10 GPM / 37 l/min	1½" / Ø 38 mm hose or 1½" NPT	1" / 25.4 mm hose	12 V	15A	20A
	10-24453-02					24 V	7A	12A
10-24453-04				1½" / Ø38 mm hose or 1½" BSP		12 V	15A	20A
10-24453-05						24 V	7A	12A

Accessories - Wastewater Handling and Marine Toilets

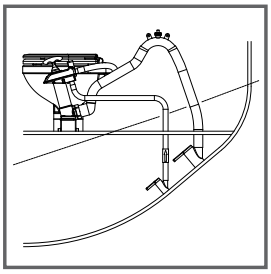
ACCESSORIES		
Part No.	**Material Description**	**Comment**
09-1052S-9	Impeller Kit F3B - TA3 P10 Nitrile	Includes - Impeller 09-1052s-9 2 X Gasket 2 X O-Ring 1 X Grease
09-45595	Service Kit F3B/TA3P10	Includes 09-1052s-9 Seal Gasket End Cover Screw
37-3206217-3	Gasket TA3P10-19	Included In Service Kit 09-45595
09-47149	Pump Housing Complete Viking Power 16	
09-47182	Pump Housing Complete Viking Power 32	
09-47183	Pump Housing Complete Viking Power Vac	
09-47148	Diaphragm Kit Viking Power 16	
09-47181	Diaphragm Kit Viking Power 32 / Vacuum	
09-47263	Clamp Kit Viking Power 16	
09-47264	Clamp Kit Viking Power 32	
01-36035	Slide Retainer Viking Power 16	Clips For Connectors
09-47491	Klicktite XI Straight 1 X 3/4" Barb VP16	Connectors For Viking Power 16 With Check Valve
09-47492	Klicktite XI Straight 1 X 1" Barb VP16	Connectors For Viking Power 16 With Check Valve
09-47503	Klicktite XL 1 X 90° 3/4" Barb VP16	Connectors For Viking Power 16 With Check Valve
09-47502	Klicktite XL 1 X 90° 1" Barb VP16	Connectors For Viking Power 16 With Check Valve
01-36074	Non-Return Valve Viking Power	Included In 09-47183 Pump Housing Complete Vpvac Order Qty 2
01-36192	Check Valve Viking Power 16	
01-47110	Valve Rubber Viking Power 16	Included In 09-47149 Pump Housing Complete Vp16
01-36051	Valve Rubber Viking Power 32	Included In 09-47182 Pump Housing Complete Vp32

Marine Toilets

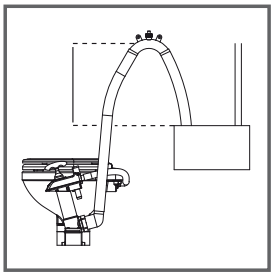
Available in a selected variety of versions marketed under three basic models — Manual, Standard Electric and Silent Electric. The AquaT marine toilet, available in electric or manual versions, has been designed to meet virtually every conceivable lavatory installation situation onboard.



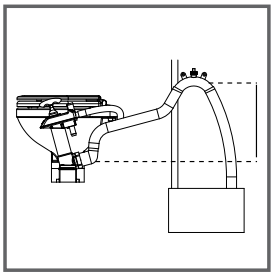
Toilet mounted below the waterline and discharging overboard.



Toilet mounted above the waterline and discharging overboard.



Toilet waste discharging into holding tank, discharging elbow below top of the holding tank at any time.



Toilet waste discharging into holding tank, discharging elbow always above top of the holding tank.

Competitively priced, the AquaT marine toilet stands out with its remarkable finish and design. Crafted from white vitreous porcelain and fitted with corrosion-resistant parts, it is quiet, robust, and easy to clean.

While most toilets may be considered ordinary, the AquaT proves otherwise. With its quiet operation, hygienic construction, and reliable performance, it is the perfect choice for virtually any marine toilet room.

The AquaT bowls are available in three executions:

1. **Super Compact bowl - smaller and lighter bowl, requiring less space**
2. **Compact bowl with a round seat - when installation space is limited**
3. **Comfort bowl with a larger comfortable oval seat**

- **All models of AquaT toilets are equipped with soft closing, durable and hygienic plastic seats**



AquaT Manual Super Compact
80-47625-01



AquaT Manual Compact
80-47229-01



AquaT Manual Comfort
80-47230-01

AquaT MANUAL

Incorporates an ergonomically designed, hand-powered piston pump that can be mounted for either left-hand or right-hand use. Available in three models: Super Compact, Compact and Comfort.



AquaT Standard Electric Super Compact
80-47626-01,12 V



AquaT Standard Electric Compact
80-47435-01, 12 V
80-47435-02, 24 V



AquaT Standard Electric Comfort
80-47436-01,12 V
80-47436-02, 24 V

AquaT STANDARD ELECTRIC

Equipped with combined 12 V or 24 V pump for disposal and flushing. Centrifugal pump with macerator function for disposal and an impeller pump for filling water. Available in three models: Super Compact, Compact and Comfort.



AquaT Silent Electric Compact
80-47231-01, 12 V
80-47231-02, 24 V



AquaT Silent Electric Comfort
80-47232-01, 12 V
80-47232-02, 24 V

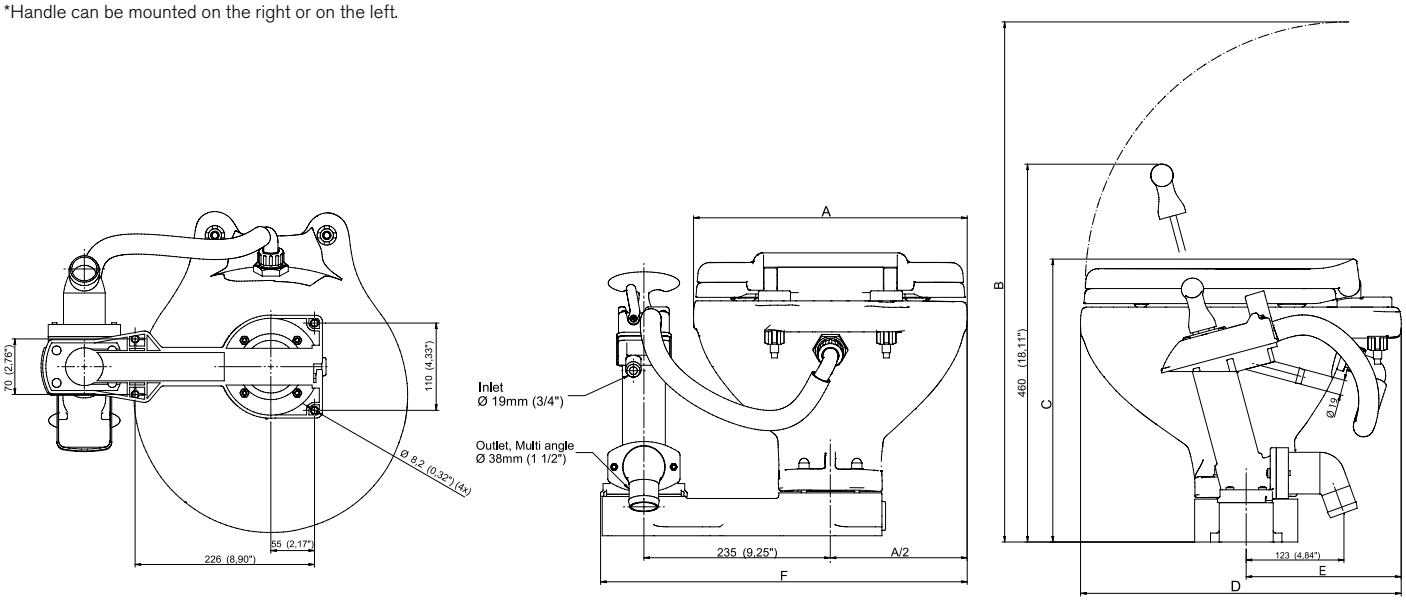
AquaT SILENT ELECTRIC

Designed for silent flush and built-in pump for disposal. Centrifugal pump with macerator function and a well-proven Aqua Jet diaphragm pump. Controlled with a three-way control panel. Available in 12 V/24 V and two models: Compact and Comfort.

AquaT MANUAL - TOILET

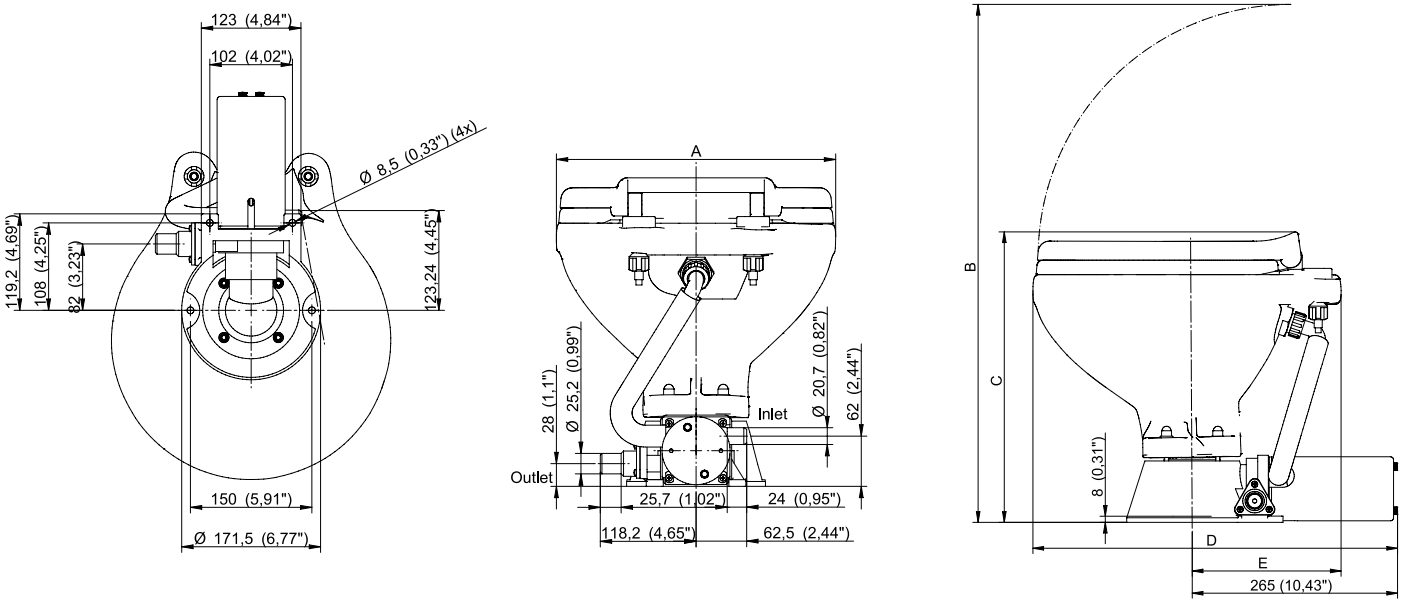
Part No.	Description	Net weight		A	B	C	D	E	F	mm/ inch
80-47625-01	AquaT Toilet Manual Super Compact*	8.5	kg	340	605	300	400	215	460	mm
		19	lbs	13.39	23.82	11.81	15.75	8.46	18.11	inch
80-47229-01	AquaT Toilet Manual Compact*	8.3	kg	340	650	350	400	215	455	mm
		18	lbs	13.39	25.59	13.78	15.75	8.46	17.91	inch
80-47230-01	AquaT Toilet Manual Comfort*	11	kg	365	725	330	470	250	465	mm
		24	lbs	14.37	28.54	12.99	18.50	9.84	18.31	inch

*Handle can be mounted on the right or on the left.



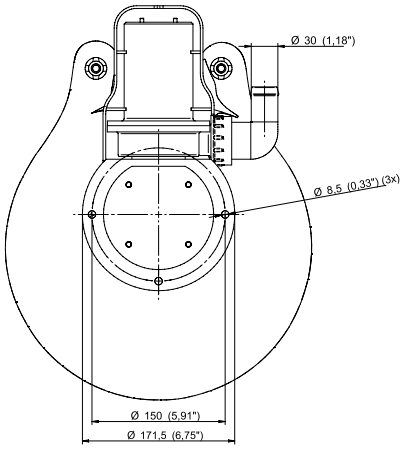
AquaT STANDARD ELECTRIC - TOILET

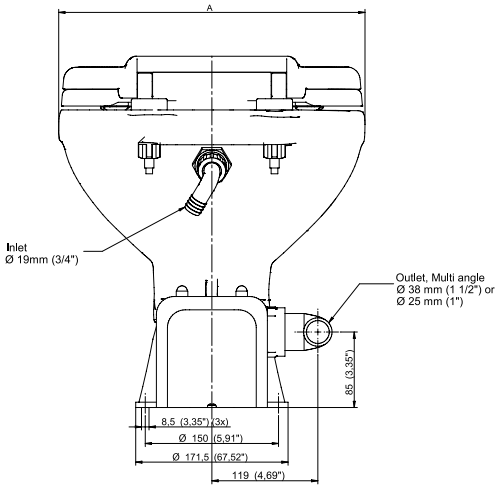
Part No.	Description	Net weight		A	B	C	D	E	mm/ inch
80-47626-01	AquaT Standard Electric Super Compact. 12 V	9.2	kg	340	635	330	450	215	mm
		20	lbs	13.39	25.00	12.99	17.72	8.46	inch
80-47435-01	AquaT Standard Electric Compact. 12 V	9.5	kg	340	680	380	450	215	mm
80-47435-02	AquaT Standard Electric Compact. 24 V	21	lbs	13.39	26.77	14.96	17.72	8.46	inch
80-47436-01	AquaT Standard Electric Comfort. 12 V	11	kg	365	755	360	475	260	mm
80-47436-02	AquaT Standard Electric Comfort. 24 V	24	lbs	14.37	29.72	14.17	18.70	10.24	inch

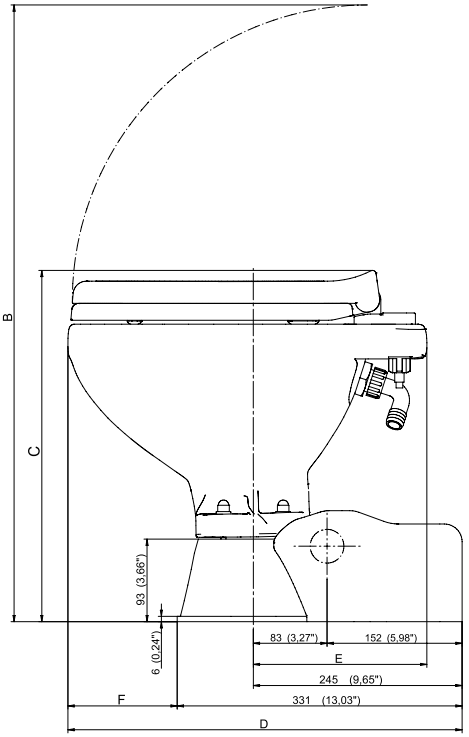


AquaT SILENT ELECTRIC - TOILET

Part No.	Description	Weight		A	B	C	D	E	F	mm/ inch
80-47231-01	AquaT Silent Electric Compact. 12 V	9.2	kg	340	695	395	441	215	110	mm
80-47231-02	AquaT Silent Electric Compact. 24 V	20	lbs	13.39	27.36	15.55	17.36	8.46	4.33	inch
80-47232-01	AquaT Silent Electric Comfort. 12 V	10.8	kg	365	770	375	456	260	125	mm
80-47232-02	AquaT Silent Electric Comfort. 24 V	24	lbs	14.37	30.31	14.76	17.95	10.24	4.92	inch







Spare Parts - AquaT Toilets

Part No.	Description
81-47241-04	Soft Close Plastic Seat Compact Toilet
81-47241-05	Soft Close Plastic Seat Comfort Toilet
81-47242-01	Gasket Kit (all gaskets for Manual)
81-47243-01	Plastic Base with Tap and Ring (Manual)
81-47244-01	Plastic handle kit (Manual)
81-47246-01	Intake elbow - inlet pipe complete (Manual and Silent Electric)
81-47246-02	Outlet elbow - outlet pipe complete (Manual and Silent Electric)
81-47247-01	Base group (Silent Electric)

Part No.	Description
81-47248-01	Motor group 12 V (Silent Electric)
81-47248-02	Motor group 24 V (Silent Electric)
81-47268-01	Base Gasket Kit (Manual)
81-47269-01	Flush Handle kit (Manual)
81-47273-01	Outlet elbow (Silent Electric)
81-47274-01	Bowl gasket (Silent Electric)
81-47519	Impeller kit (Silent Electric)
81-47640-01	Intake elbow Flush 90° Flexible



81-47246-02



81-47248-01



81-47268-01

Accessories - Wastewater Handling and Marine Toilets



VENTED LOOP

The vented loop is available in different sizes and with its inverted U-shape with a vent at the top it allows the air to escape. Vented loops are to prevent back siphoning and are found in toilet discharge lines or in systems which are mounted below the waterline.

Part No.	Description
81-47237-01	Vented Loop, ¾" / 19 mm
81-47237-02	Vented Loop, 1" / 25 mm
81-47237-03	Vented Loop, 1½" / 38 mm



Y-VALVE

Designed for installation in waste discharge and bilge pump-out systems. Allows waste to be pumped directly into holding tank or diverted to another discharge.

Part No.	Description
81-47238-01	Y-valve 1½" Inner diameter, 1" Straight



CONVERSION KIT - AquaT SILENT ELECTRIC

AquaT Silent Electric conversion kit/spare kit for Compact or Comfort sized bowls. For separate external flush system with flush pump or by existing centralized fresh water system using solenoid. Controls the rinse and discharge with two separate buttons on the control panel. Includes discharge pump, base, connectors and two-switch control panel.

Part No.	Description
81-47240-01	Conversion kit AquaT Assembly 12 V (Silent Electric)
81-47240-02	Conversion kit AquaT Assembly 24 V (Silent Electric)



CONVERSION KIT - AquaT STANDARD ELECTRIC

Standard Electric conversion kit/spare kit for Compact or Comfort sized bowls. To convert a manual model to electric, or to replace an existing electrical system with a one-push flush and discharge system. Includes pump, base, hose, fittings and the one- push control panel. Fits with all AquaT™ Standard Electric models.

Part No.	Description
81-47442-01	Conversion Kit 12 V (Standard Electric)
81-47442-02	Conversion Kit 24 V (Standard Electric)



REPAIR PUMP KIT - AquaT MANUAL

This manual toilet pump assembly pairs with any AquaT Manual Marine Toilet. It incorporates an ergonomically designed, hand-powered piston pump that can be mounted for either left handed or right handed use.

Part No.	Description
81-47239-01	Conversion kit AquaT (Manual)



CONTROL PANEL - AquaT SILENT ELECTRIC 12 V/24 V

Two switch control panel to allow for separate rinse and discharge when using an external flush pump or solenoid.

Part No.	Description
81-36105-01	Control Panel - AquaT Silent Electric Toilets 12 V/24 V



CONTROL PANEL - AquaT STANDARD ELECTRIC 12 V/24 V

One push button on the control panel for combined rinse and discharge pump.

Part No.	Description
81-47520-01	Control Panel -AquaT Standard Electric and Super Compact Toilets 12 V/24 V



FLUSH PUMP 3.5

An efficient and robust flush pump to be used with on-off switch for any marine 12 V/24 V toilet with external flushing pump system. Fits with all Silent Electric models.
Delivers 3.5 GPM / 13 l/min.

Part No.	Description
10-13399-05	Flush Pump 3.5 GPM with strainer 12 V
10-13399-06	Flush Pump 3.5 GPM with strainer 24 V



VIKING POWER VACUUM

Electrical 12 V/24 V diaphragm pump to manage all types of wastewater. Can pump un-macerated sewage to a holding tank or transfer it onwards to a septic tank. Equipped with double check valves to secure operation at all times. To be used also with vacuum toilet systems.

Part No.	Description
10-13373-07	Viking Power Vacuum, 12 V
10-13373-08	Viking Power Vacuum, 24 V



VIKING UNIVERSAL

Heavy duty manual bilge pump to fill and discharge wastewater holding tanks. Compact to minimize required space, can be installed bulkhead or through. Equipped with large 1 ½" / 38 mm connectors to manage all kinds of waste water.

Part No.	Description
10-13530-01	Viking Universal with connection 1½"/Ø38 mm
09-36250	Viking Universal Through Deck Kit



SOLENOID

Electric valve to be used with centralized fresh water system.

Part No.	Description
81-47301-01	Solenoid valve 12 V
81-47301-02	Solenoid valve 24 V

THE ONLY THING COOLER THAN A DAY ON THE WATER, IS YOUR ENGINE.





Johnson Pump has been committed to engineering high-performance pumps since 1968. Whether you need premium engine cooling performance, bilge pumping, deck washing, or raw water pumping, we have the flexible impeller pump that gives you reliability on board. A global leader in impeller technology and trusted by OEMs worldwide, you can feel confident your Johnson Pump will provide power and durability even in the harshest conditions to ensure your time on the water is safe and enjoyable.

Time tested and industry proven. Visit JohnsonPumpMarine.com for more information.

SPXFLOW®

Johnson Pump®

RADIAL BLOWERS & MARINE WATER HEATERS

Extra heavy duty AirV Marine Radial Blowers designed for engine compartment ventilation prior to start up. Suitable for air intake or extraction in bilges, galleys, accommodation, and other compartments. Flange or Flex mounting.

AquaH - is an innovative series of AISI 316 stainless steel water heaters, with a storage capacity of up to 5.3 to 19.3 gallons / 22 to 80 litres. Dual heating as standard - electrical heating and indirect heating based on a second heat source, for example the cooling system from the Marine engine or generator set.



60 EXTRA HEAVY DUTY RADIAL BLOWERS



61 MARINE WATER HEATERS



62 MARINE WATER HEATER ACCESSORIES AND SPARE PARTS

CE

AirV – Extra Heavy Duty Radial Blowers
ISO 9097
ISO 8846
ISO 10133
EN 55014-1
AquaH - Marine Water Heaters
EN 60335-1
EN 60335-2-21 + A1 + EC
EN 55014-1 + A1 + A2
EN 55014-2 + A1



Extra Heavy Duty Radial Blowers

Marine radial blowers designed for engine compartment ventilation prior to start up. Suitable for air intake or extraction in bilges, galleys, accommodation and other compartments. Compact design easy to install, even in tight spaces.

Flange Mount and Flex Mount design with double ball bearing 12 V or 24 V motor, high-impact anti-shock ABS body with shaft and screws in stainless steel. Capacity range 163 CFM / 280 m³ per hour to 589 CFM / 1000 m³ per hour. Low power consumption.





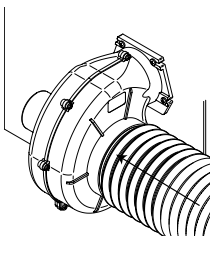
	AirV 3-280	AirV 4-550	AirV 4-750	AirV 4-1000
Pump Body	ABS			
Shaft	Stainless Steel			
Motor	Double Ball Bearing			
Length	7.68" / 195 mm	6.61" / 161 mm	7.16" / 182 mm	8.19" / 201 mm
Width	6.3" / 171 mm	10.08" / 257 mm	10.08" / 257 mm	10.08" / 257 mm
Height	6.89" / 198 mm	11.61" / 296 mm	11.61" / 296 mm	11.61" / 296 mm
Weight	5.29 lbs / 2.4 kg	5.95 lbs / 2.7 kg	7.05 lbs / 3.2 kg	8.16 lbs / 3.7 kg

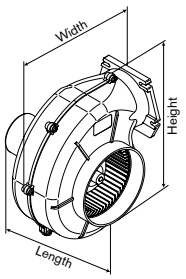
Part No.	Part No. USA	Description	Capacity	Port Connections		Voltage	Current (Amp)
				Inlet	Flange Outlet		
80-47416-01		AirV 3-280 Flange Mount, 12 V	163 CFM / 280 m³/h	3" / Ø 75 mm	3.62 x 3.15" / 92 x 80 mm	12 V	3.9 A
80-47416-02		AirV 3-280 Flange Mount, 24 V				24 V	2.5 A
	80-47417-01	AirV 4-550 Flange Mount, 12 V	441 CFM / 750 m³/h	4" / Ø 100 mm	15.75 x 4.65" / 46 x 118 mm	12 V	12.5 A
	80-47417-02	AirV 4-550 Flange Mount, 24 V				24 V	7 A
	80-47418-01	AirV 4-750 Flange Mount, 12 V	441 CFM / 750 m³/h	6" / Ø 150 mm	5.75 x 4.65" / 146 x 118 mm	12 V	14.5 A
	80-47418-02	AirV 4-750 Flange Mount, 24 V				24 V	8.5 A
	80-47419-02	AirV 5-1000 Flange Mount 24 V	589 CFM / 1000 m³/h			24 V	15.5 A

Part No.	Description	Capacity	Port Connections		Voltage	Current (Amp)
			Inlet	Flange Outlet		
80-47420-01	AirV 4-550 Flex Mount, 12 V	324 CFM / 550 m³/h	4" / Ø 100 mm	4.33" / Ø110 mm	12 V	12.5 A
80-47420-02	AirV 4-550 Flex Mount, 24 V				24 V	7 A
80-47421-01	AirV 4-750 Flex Mount, 12 V	441 CFM / 750 m³/h	6" / Ø 150 mm		12 V	14.5 A
80-47421-02	AirV 4-750 Flex Mount, 24 V				24 V	8.5 A
80-47422-02	AirV 4-1000 Flex Mount, 24 V	589 CFM / 1000 m³/h			24 V	15.5 A

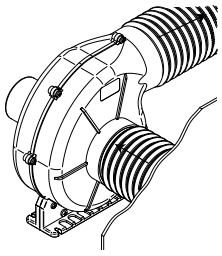
Part No. USA	Description	Capacity	Port Connections		Voltage	Current (Amp)
			Inlet	Flange Outlet		
66302	3" Inline Blower 12 V	158 CFM	3"		3.5 A	
66402	4" Inline Blower 12 V	240 CFM	4"			
54124	Blower, Flange Mount	112 CFM	3"		5 A	
54154	Blower, Remote Mount		3"			

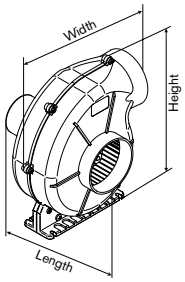
Flange Mount





Flex Mount





Marine Water Heaters

Stainless steel water heaters with dual heating as standard - electrical heating and indirect heating based on a second heat source, for example based on the cooling system from the marine engine or generator set.

AQUAH – MARINE WATER HEATER

AquaH is an innovative series of AISI 316 stainless steel water heaters, with a storage capacity of 5.3 up to 19.3 gallons / 22 to 80 litres. The heaters are cased in AISI 304 stainless steel and are provided with a sturdy compact plastic end cover which also includes the mounting brackets.

Electrical heating elements are available in Incoloy at 500W and 1200W allowing hot water production when engine heat is not available but when 230V is. Delivered with an adjustable safety thermostat for temperature adjustment while on electrical heating.

	22L	30L	45L	60L	80L
Tank	AISI 316L Stainless Steel				
Outer cover	AISI 304 Stainless Steel				
Length	19.1" / 485 mm	24.4" / 620 mm	34.6" / 880 mm	41.9"/ 1065 mm	53" / 1345 mm
Width	11.4" / 290 mm				
Height	12.8" / 325 mm				
Weight	22 lbs / 10 kg	25.4 lbs / 11.5 kg	33.1lbs / 15 kg	38.1lbs / 17.3 kg	44.1lbs / 20 kg



56-47456-01

Part No.	Watt	Water temperature in C (F) Storage capacity	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)	55 (131)
56-47455-01	1200	5.81 gal / 22 L	6	12	19	25	31	38	44	51
56-47456-01	1200	7.93 gal / 30 L	8	17	26	34	43	52	61	69
56-47457-01	1200	11.9 gal / 45 L	13	26	39	52	65	78	91	104
56-47458-01	1200	15.9 gal / 60 L	17	34	52	69	87	104	122	139
56-47459-01	1200	21.1 gal / 80 L	23	46	69	93	116	139	162	186

Initial temperature 15C Table shows time in minutes

Part No.	Watt	Water temperature in C (F) Storage capacity	20 (68)	25 (77)	30 (86)	35 (95)	40 (104)	45 (113)	50 (122)	55 (131)
56-47455-03	500	5.81 gal / 22 L	15	30	46	61	76	92	107	122
56-47456-03	500	7.93 gal / 30 L	20	41	62	83	104	125	146	167
56-47457-03	500	11.9 gal / 45 L	31	62	94	125	156	188	219	251
56-47458-03	500	15.9 gal / 60 L	41	83	125	167	209	251	293	334
56-47459-03	500	21.1 gal / 80 L	55	111	167	223	279	334	390	446

Initial temperature 15C Table shows time in minutes

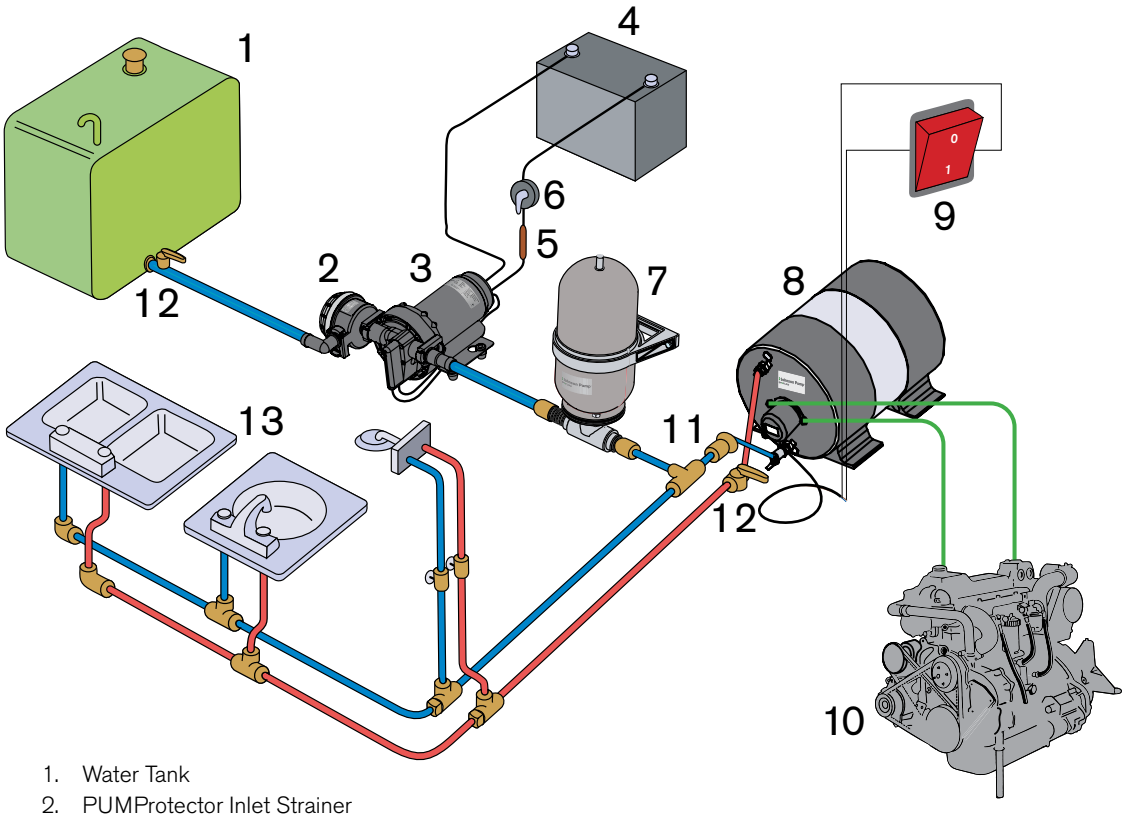
Part No.	Part No. USA	Description	Capacity	Voltage	Connection	Amp	Fuse size
56-47455-01	56-47455-01	AquaH Marine Water Heater 1200W	5.81gal / 22 L	220V	BSP	5.2 A	10 A
	56-47455-02	AquaH Marine Water Heater 1200W		120V	NPT	10 A	15 A
56-47455-03	56-47455-03	AquaH Marine Water Heater 500W		220V	BSP	2.2 A	6 A
	56-47455-04	AquaH Marine Water Heater 500W		120V	NPT	4.2 A	10 A
56-47456-01	56-47456-01	AquaH Marine Water Heater 1200W	7.93 gal / 30 L	220V	BSP	5.2 A	10 A
	56-47456-02	AquaH Marine Water Heater 1200W		120V	NPT	10 A	15 A
56-47456-03	56-47456-03	AquaH Marine Water Heater 500W		220V	BSP	2.2 A	6 A
	56-47456-04	AquaH Marine Water Heater 500W		120V	NPT	4.2 A	10 A
56-47457-01	56-47457-01	AquaH Marine Water Heater 1200W	11.9 gal/ 45 L	220V	BSP	5.2 A	10 A
	56-47457-02	AquaH Marine Water Heater 1200W		120V	NPT	10 A	15 A
56-47457-03	56-47457-03	AquaH Marine Water Heater 500W		220V	BSP	2.2 A	6 A
	56-47457-04	AquaH Marine Water Heater 500W		120V	NPT	4.2 A	10 A
56-47458-01	56-47458-01	AquaH Marine Water Heater 1200W	15.9 gal / 60 L	220V	BSP	5.2 A	10 A
	56-47458-02	AquaH Marine Water Heater 1200W		120V	NPT	10 A	15 A
56-47458-03	56-47458-03	AquaH Marine Water Heater 500W		220V	BSP	2.2 A	6 A
	56-47458-04	AquaH Marine Water Heater 500W		120V	NPT	4.2 A	10 A
56-47459-01	56-47459-01	AquaH Marine Water Heater 1200W	21.1 gal / 80 L	220V	BSP	5.2 A	10 A
	56-47459-02	AquaH Marine Water Heater 1200W		120V	NPT	10 A	15 A
56-47459-03	56-47459-03	AquaH Marine Water Heater 500W		220V	BSP	2.2 A	6 A
	56-47459-04	AquaH Marine Water Heater 500W		120V	NPT	4.2 A	10 A

Marine Water Heater Accessories and Spare Parts



Part No.	Part No. USA	Description
56-47464-01		AquaH Thermostat Water Mixer Kit ½" BSP
	56-47464-02	AquaH Thermostat Water Mixer Kit ½" NPT
56-A.100-0086	56-A.100-0086	AquaH Gasket
56-A.280-0014		AquaH Heater Element 500W 230V
56-A.280-0016	56-A.280-0016	AquaH Heater Element 1200W 220V
56-A.280-0042	56-A.280-0042	AquaH Adjustable Thermostat
56-A.130-0092	56-A.130-0092	AquaH Pres. Relief and non ret. Valve
	56-A.060-0137	AquaH NPT ½" M - G½" F Adapter
	56-A.130-0081	AquaH Straight Male Fitting ½" X 14
	56-A.280-0037	AquaH Heater Element 500 W - 120V
	56-A.280-0034	AquaH Heater Element 1200W 120V

TYPICAL WATER HEATER APPLICATION



1. Water Tank
2. PUMProtector Inlet Strainer
3. Aqua Jet Water Pressure System Pump
4. Battery
5. Fuse
6. Switch
7. Accumulator Tank
8. AquaH Water Heater
9. ON/OFF Bipolar Switch
10. Motor
11. Check Valve
12. Shut-off Valve
13. Shower and Sinks

PERFORMANCE MATTERS



CARTRIDGE BILGE PUMP

Quick-Change Motor Connection

- Simple cartridge motor replacements and capacity upgrades.
- New high-flow impeller

CARTRIDGE BILGE PUMP

Advanced Sensing Technology

- The pump automatically detects water using resistance.
- No external switch is required.

CARTRIDGE BILGE PUMP

Advanced Sensing Technology

- Incorporates Ultima Electronic Automatic Switch for automatic operation.
- Ensures precise water detection and pump activation.
- Resistant to corrosion and debris for enhanced durability.
- Switch is completely sealed and does not come into direct contact with water.

Johnson Pump®

SPXFLOW®

johnsonpumpmarine.com

FLEXIBLE IMPELLER PUMPS & IMPELLERS

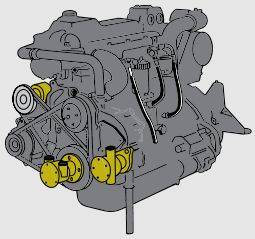
Flexible impeller pumps offer an efficient solution for most raw water pumping applications. These pumps are self-priming and capable of handling relatively large solids without clogging or causing damage.

Our engine cooling pumps are engineered to meet the rigorous demands of marine engine manufacturers and are built to withstand tough operating conditions.

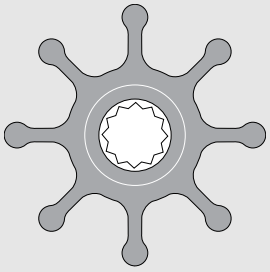
We supply cooling pumps to many of the world's leading marine motor manufacturers—not only because of the proven reliability of our pumps, but also thanks to our advanced impeller design and technology, which form the heart of every high-performance engine cooling system.



66 SELF-PRIMING FLEXIBLE IMPELLER PUMPS



70 ENGINE COOLING – RAW WATER HANDLING



74 IMPELLER IDENTIFICATION GUIDE

F7B-3000

78 PUMP TYPE SPECIFICATION SYSTEM KEY

Digital Version: **Yanmar Trusts Johnson Pump for Reliable Marine Engine Cooling**







Self-Priming Flexible Impeller Pumps

HEAVY DUTY IMPELLER PUMPS

Our Heavy Duty bronze pumps combine raw water resistance with a compact, durable design, earning a proven reputation for quality and reliability. With excellent self-priming capability, they are ideal for marine applications such as engine cooling, bilge pumping, deckwash, freshwater supply, and fuel transfer. On shore, they are equally effective for emptying septic tanks, flushing systems, and filling water tanks. Reliable, versatile, and built to last—these pumps deliver performance wherever you need it.

Available in sizes from ⅜" to 1½" / 9.5 mm to 38 mm
1 GPM to 74 GPM / 4 l/min to 279 l/min
Vacuum switch (see page 37) as extra accessory for F8B-8007 only.

	F35B-8	F4B-8	F5B-8	F7B-8	F8B-8
Pump Body	Bronze				
Shaft	Stainless steel The shaft is mounted with permanently lubricated double ball bearings				
Seal	Mechanical seal				
Cam	Full or reduced				
Connection	BSP or NPT				
Length	4.29" / 109 mm	4.37" / 111 mm	5.95" / 151 mm	6.69" / 170 mm	8.54" / 217 mm
Height	1.18" / 30 mm	1.97" / 50 mm			2.56" / 65 mm
Width	3.14" / 80 mm		4.17" / 106 mm	4.72" / 120 mm	6.3" / 160 mm
Weight	1.2 lbs / 0.5 kg	1.8 lbs / 0.8 kg	3.5 lbs / 1.6 kg	4 lbs / 1.9 kg	13 lbs / 5.9 kg



10-24569-01
F35B-8



10-24572-01
F7B-8

Part No.	Part No. USA	Description	Impeller	Connection	Drive Shaft Ø
10-24569-01	10-24569-51	F35B-8	09-808B-1	⅜" BSP/NPT	12 mm -⅜"
10-24570-01	10-24570-51	F4B-8	09-810B-1 09-810B-9**	⅜" BSP/NPT	12 mm -⅜"
10-24571-01	10-24571-51	F5B-8	09-1027B-1 09-1027B-9**	¾" BSP/NPT	17 mm -⅝"
10-24572-01	10-24572-51	F7B-8	09-1028BT-1 09-1028B-9**	1" BSP/NPT	17 mm - ⅝"
	10-13021-95	F8B-8	09-819B-00 09-819B-9**	1¼" NPT	24 mm - 1"
10-13021-1	10-13021-96		09-819B-00 09-819B-9**	1½" BSP/NPT	24 mm - 1"

*1" shaft keyed
**Pump with nitrile impeller available on request

FLEXIBLE IMPELLERS - OPERATING PRINCIPLE



- A vacuum is created as the flexible impeller vanes straighten upon leaving the cam, drawing liquid into the pump.
- The rotating impeller carries liquid from the inlet to the outlet port. As a consequence of their design, flexible impeller pumps can pass fairly large solids.
- When the flexible impeller vanes regain contact with the cam, they bend and the liquid is discharged from the pump in a uniform flow. Liquids can be pumped in the opposite direction by reversing the rotation of the pump.

Benefits with Johnson Pump Original Impellers:

- Ensures correct cooling flow
- Significantly longer service life
- Excellent self-priming capability
- Ensures sufficient cooling directly at start up
- Our impellers are manufactured in different compounds to strict tolerances for optimal functionality
- Correct impeller dimensions

The Unique MC97 rubber compound in many of our impellers provides maximum life, especially for applications where the end user doesn't run the engine on a regular basis:

- Stable pressure delivery over time
- Minimized failures due to fatigue
- Minimized swelling

EXTRA HEAVY DUTY IMPELLER PUMPS

Whenever greater strength and durability are required, an extra heavy duty flexible impeller pump is the ideal choice. Designed with a separate bearing housing and a mechanical seal, these pumps reduce wear and extend service life. They are suitable for the full range of marine applications and can be used as cooling water pumps, bilge pumps, deckwash pumps, as well as emergency and fire-fighting pumps.

The pumps are available in sizes ranging from ¾" / 19 mm to 2 ½" / 64 mm, with flow capacities from 3.4 GPM / 13 l/min up to 165 GPM / 625 l/min. Wear parts are easily replaceable, and service kits are provided for all standard models. For added functionality, a vacuum switch is available as an optional accessory.

	F5B-3000	F7B-3000	F8B-3000 VF	F9B-3000	F8B-3000 TSS	F9B-3000 VF	F9B-3000 TSS	F95B-3000
Pump body	Bronze (Connection for vacuum switch)							
Shaft	Stainless steel							
Seal	Mechanical seal							
Cam	Full or reduced							
Pedestal	Cast iron with permanently lubricated double ball bearings							
Length	7.68" / 195 mm	8.38" / 213 mm	10.04" / 255 mm	11.1" / 282 mm	10.04" / 255 mm	11.1" / 282 mm		13.93" / 354 mm
Width	4.17" / 106 mm	4.72" / 120 mm	5.98" / 152 mm	7.56"/ 192 mm	7.79" / 198 mm	5.98" / 152 mm	7.87" / 200 mm	9.68"/11.61"/ 246/295 mm
Height	3.46" / 88 mm	3.66" / 93 mm	7.56" / 192 mm	6.06" / 154 mm	5.94" / 151 mm	6.89" / 175 mm	5.94" / 151 mm	8.89"/7.91" / 226/201 mm
Weight	6.5 lbs / 2.9 kg	6.9 lbs / 3.1 kg	16.5 lbs / 7.6 kg	21 lbs / 9.3 kg	16.5 lbs / 7.6 kg	21 lbs / 9.3 kg		38 lbs / 17.2 kg

Part No.	Part No. USA	Description	Impeller	Connection	Drive Shaft Ø
10-24210-1	10-24210-5	F5B-3000	09-1027B-1 09-1027B-9-00*	¾" BSP/NPT	17 mm
10-24209-1	10-24209-7	F7B-3000	09-1028BT-1 09-1028B-9*	1" BSP/NPT	17 mm
10-13024-1	10-13024-1	F8B-3000 VF	09-819B-00 09-819B-9*	Port Adaptor Kit	1" / 24 mm
10-13026-1	10-13026-7	F9B-3000	09-802B 09-814B**	2" BSP/NPT	1" / 24 mm
10-13175-01	10-13175-01	F8B-3000 TSS	09-819B-00 09-819B-9*	Port Adaptor Kit	1" / 24 mm
10-13225-01	10-13225-01	F9B-3000 VF	09-802B 09-814B**	Port Adaptor Kit	1" / 24 mm
10-13177-01	10-13177-01	F9B-3000 TSS	09-802B 09-814B**	Port Adaptor Kit	1" / 24 mm

*Pump with nitrile impeller available on request
**Pump with alternative impeller available on request

EXTRA HEAVY DUTY, HIGH FLOW, IMPELLER PUMPS F95B-3000



10-13121-01
F95B-3000

Part No.	Part No. USA	Description	Impeller	Connection	Drive Shaft Ø
10-13121-01	10-13121-04	F95B-3000	09-820B	2½" BSP/NPT	1" / 24 mm



10-24210-1
F5B-3000



10-24209-1
F7B-3000



10-13024-1
F8B-3000 VF



10-13026-1
F9B-3000



10-13175-01
F8B-3000 TSS



10-13225-01
F9B-3000 VF



10-13177-01
F9B-3000 TSS

Clutch Pump

With an electro-magnetic clutch you will have pumping power whenever needed, at a push of a button, without being at the pump. Combined with a vacuum switch (recommended for bilge pump application), the clutch will automatically disengage whenever the pump starts priming air, thereby preventing dry running and pump damage. Automatically controlled pumps are available in sizes from 1" to 2½" (20 l/min to 625 l/min), with clutches in 12 or 24 volts. Wear parts are easily replaceable and service kits are available for all standard models. Vacuum Switch as extra accessory, see page 57. *Note! Clutch to be ordered separately.*


10-24577-99


10-13022-99


10-24116-99


10-13025-99


10-13176-99


10-13027-99


10-13226-99


10-13178-99


10-13143-99

	F7B-5000	F8B-5001	F7B-5000	F8B-5000 VF	F8B-5000 TSS	F9B-5600	F9B-5600 VF	F9B-5600 TSS	F95B-5000
Pump body	Bronze (Connection for vacuum switch)								
Shaft	Stainless steel. The shaft is mounted with permanently lubricated double ball bearings								
Seal	Mechanical seal								
Cam	Full or reduced								
Clutch	Electro-Magnetic 12/24 V DC								
Pulley	2xA or 1xB-groove								
Pulley Diameter	7" / 178 mm								
Length	6.19" / 156 mm	8.85" / 225 mm	8.9" / 226 mm	10.43" / 265 mm	10.43" / 265 mm	11.42" / 290 mm		11.4" / 290 mm	14.09"/ 358 mm
Width	4.72" / 120 mm	6.29" / 160 mm	4.72" / 120 mm	5.98" /1 52 mm	7.79" / 198 mm	7.56" / 192 mm		7.87" / 200 mm	9.68"/11.61" / 246/295 mm
Height	3.66" / 93 mm	4.88" / 124 mm	3.66" / 93 mm	6"/154 mm	5.94" / 151 mm	6.18" / 157 mm		5.94" / 151 mm	-8.89/7.91" / 226/201 mm
Weight	12.7 lbs / 5.8 kg	22 lbs / 9.9 kg	15 lbs / 6.9 kg	26 lbs / 11.9 kg	26 lbs / 11.9 kg	29 lbs / 13.2 kg		27 lbs / 13.2 kg	46 lbs / 21 kg

Part No.	Part No. USA	Description	Impeller	Connection
10-24577-99	10-24577-98	F7B-5001	09-1028B	1" BSP/NPT
10-13022-99	10-13022-98	F8B-5001*	09-819B	1½" BSP/NPT
	10-13022-95	F8B-50017		1¼" NPT
	10-13022-96	F8B-50017*		1½" NPT

* Same thread on -96 and -98. Footprint for -96 US version.

EXTRA HEAVY DUTY ELECTROMAGNETIC CLUTCH PUMPS FB-5000

Part No.	Part No. USA	Description	Impeller	Connection
10-24116-99	10-24116-98	F7B-5000	09-1028B	1" NPT
10-13025-99	10-13025-99	F8B-5000 VF	09-819B	Port Adaptor Kit
10-13176-99	10-13176-99	F8B-5000 TSS		Port Adaptor Kit
10-13027-99	10-13027-98	F9B-5600	09-802B/09-814B	2" NPT
10-13226-99	10-13226-99	F9B-5600 VF		Port Adaptor Kit
10-13178-99	10-13178-99	F9B-5600 TSS		Port Adaptor Kit

EXTRA HEAVY DUTY, HIGH FLOW, ELECTRO-MAGNETIC CLUTCH PUMPS FB-5000

Part No.	Part No. USA	Description	Impeller	Connection
10-13143-99	10-13143-98	F95B-5000	09-820B	2½" NPT

CLUTCHES

Part No.	Description
0.3454.001	Electro-Magnetic Clutch, 12 V 2xA 7" Pulley
0.3454.002	Electro-Magnetic Clutch, 24 V 2xA 7" Pulley
0.3454.003	Electro-Magnetic Clutch, 12 V 1xB 7" Pulley
0.3454.004	Electro-Magnetic Clutch, 24 V 1xB 7" Pulley
0.3454.050	Coil 12 V
0.3454.051	Coil 24 V



Bronze Impeller Pump Performance Tables

Note! Reduced cam - 30-40% lower capacity Impeller of nitrile - adjust total head approx. 30% down

F35B			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM			2500 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.06	5.2	1.4	0.09	6.8	1.8	0.13	11.2	3.0	0.16	14.0	3.7	0.18	16.0	4.2	0.18	20.5	5.4
0.6	60	20.1	0.09	4.6	1.2	0.09	6.2	1.6	0.13	10.6	2.8	0.16	13.7	3.6	0.18	15.8	4.1	0.18	19.6	5.2
1.0	100	33.5	0.09	4.0	1.1	0.09	5.6	1.5	0.18	9.2	2.4	0.18	11.8	3.1	0.18	13.6	3.6	0.18	17.0	4.5

F4B			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM			2500 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.06	12.0	3.2	0.09	15.0	4.0	0.13	23.0	6.0	0.17	27.0	7.1	0.18	30.5	8.1	0.18	34.5	9.1
0.6	60	20.1	0.09	11.0	2.9	0.09	14.0	3.7	0.13	21.0	5.4	0.17	25.0	6.6	0.18	28.0	7.4	0.18	33.0	8.7
1.0	100	33.5	0.09	9.0	2.4	0.09	11.0	2.9	0.18	18.0	4.8	0.18	22.0	5.8	0.18	25.0	6.6	0.18	29.5	7.8
1.5	150	50.3	0.09	4.5	1.2	0.09	7.0	1.8	0.18	13.5	3.6	0.18	17.0	4.5	0.18	20.0	5.3	0.24	25.0	6.6

F5B			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.13	16.0	4.2	0.18	21.0	5.5	0.37	33.0	8.7	0.37	41.0	10.8	0.37	46.0	12.2
0.6	60	20.1	0.13	15.0	4.0	0.18	20.0	5.3	0.37	32.0	8.5	0.37	39.5	10.4	0.37	45.0	11.9
1.0	100	33.5	0.13	14.0	3.7	0.18	19.0	5.0	0.37	30.0	7.9	0.37	37.0	9.8	0.37	42.0	11.1
1.5	150	50.3	0.13	13.0	3.4	0.18	17.0	4.5	0.37	27.0	7.1	0.37	33.5	8.9	0.37	38.0	10.0
2.0	200	67.1	-	-	-	-	-	-	0.37	22.0	5.8	0.37	28.5	7.5	0.37	33.0	8.07

F7B			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.37	36.0	9.5	0.37	46.0	12.2	0.75	74.0	19.6	0.75	98.0	25.9	0.75	107.0	28.3
0.6	60	20.1	0.37	34.0	9.0	0.37	44.0	11.6	0.75	72.0	19.0	0.75	96.0	25.4	0.75	104.0	27.5
1.0	100	33.5	0.37	29.0	7.7	0.37	40.0	10.6	0.75	67.0	17.7	0.75	87.0	23.0	0.75	98.0	25.9
1.8	180	60.4	0.37	21.0	5.5	0.37	30.0	7.9	0.75	57.0	15.1	0.75	73.0	19.3	0.75	84.0	22.2
2.5	250	83.8	-	-	-	-	-	-	0.75	37.0	9.8	1.1	52.0	13.7	1.1	63.0	16.6

F8B			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.37	87.0	23.0	0.75	114.0	30.1	1.1	188.0	50.0	1.5	241.0	63.7	1.5	279.0	73.7
0.6	60	20.1	0.37	80.0	21.1	0.75	107.0	28.3	1.1	180.0	47.6	1.5	233.0	61.6	1.5	270.0	71.3
1.0	100	33.5	0.37	73.0	19.3	0.75	101.0	26.7	1.1	177.0	46.8	1.5	228.0	60.2	1.5	264.0	69.7
1.8	180	60.4	-	-	-	1.1	70.0	18.5	1.1	148.0	39.1	2.2	203.0	53.6	2.2	242.0	63.4
2.5	250	83.8	-	-	-	-	-	-	1.1	108.0	28.5	2.2	166.0	43.9	2.2	208.0	55.0

F9B-5000			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.75	129.0	34.1	0.75	170.0	44.9	1.5	268.0	70.8	1.5	331.0	87.5	2.2	388.8	102.7
0.6	60	20.1	0.75	124.0	32.8	0.75	161.0	42.5	1.5	260.0	68.9	2.2	323.0	85.3	2.2	383.1	101.2
1.0	100	33.5	0.75	118.8	31.4	1.1	156.0	41.2	1.5	255.6	67.5	2.2	315.2	83.3	3.0	379.2	100.2
1.8	180	60.4	1.1	105.0	27.7	1.1	140.0	37.0	1.5	235.0	62.1	2.2	286.1	75.6	3.0	351.3	92.8
2.5	250	83.8	1.1	83.7	22.1	1.5	102.0	26.9	2.2	208.0	55.2	3.0	266.0	70.3	3.0	304.1	80.3

F9B-5600			700 RPM			900 RPM			1400 RPM			1750 RPM			2000 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.3	30	10.1	0.75	129.0	34.1	1.1	170.0	44.9	1.5	270.0	71.3	1.5	331.0	87.5	2.2	376.0	99.3
0.6	60	20.1	0.75	126.0	32.8	1.1	165.0	43.6	1.5	266.0	70.3	2.2	323.0	85.3	2.2	368.0	97.2
1.0	100	33.5	0.75	123.0	32.5	1.1	161.1	42.6	2.2	260.0	68.7	2.2	314.0	83.3	3.0	361.0	95.4
1.8	180	60.4	0.75	110.0	29.1	1.5	153.0	40.4	2.2	242.0	63.9	2.2	291.0	76.9	3.0	340.0	89.8
2.5	250	83.8	1.1	90.0	23.8	1.5	130.0	34.3	2.2	218.0	57.6	3.0	269.0	71.1	3.0	312.0	82.4
3.0	300	100.6	1.5	61.0	16.1	2.2	102.0	26.9	3.0	190.0	50.2	3.0	242.0	63.9	3.5	284.0	75.0
3.5	350	117.4	-	-	-	-	-	-	3.0	160.0	42.3	3.5	205.0	54.2	3.5	235.0	62.1

F95B			700 RPM			900 RPM			1400 RPM			1750 RPM			2500 RPM		
Bar	**kPa**	**ft**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**	**kW**	**l/min**	**GPM**
0.5	50	16.8	0.75	182.6	48.2	1.1	236.5	62.5	1.5	384.2	101.5	2.2	483.6	127.8	4.0	626.7	165.5
1.0	100	33.5	1.1	172.7	45.6	1.1	231.3	61.1	1.5	372.0	98.3	3.0	472.9	124.9	5.5	617.9	163.2
1.5	150	50.3	1.1	160.1	42.3	1.5	214.5	56.7	2.2	350.4	92.6	3.0	444.1	117.3	5.5	583.8	154.2
2.0	200	67.1	1.1	132.3	35.0	1.5	181.0	47.8	3.0	315.4	83.3	3.5	406.2	107.3	5.5	553.1	146.1
2.5	250	83.8	1.5	79.5	21.0	2.2	137.8	36.4	3.0	267.6	70.7	4.0	361.3	95.5	7.5	506.4	133.8

Engine Cooling – Raw Water Handling

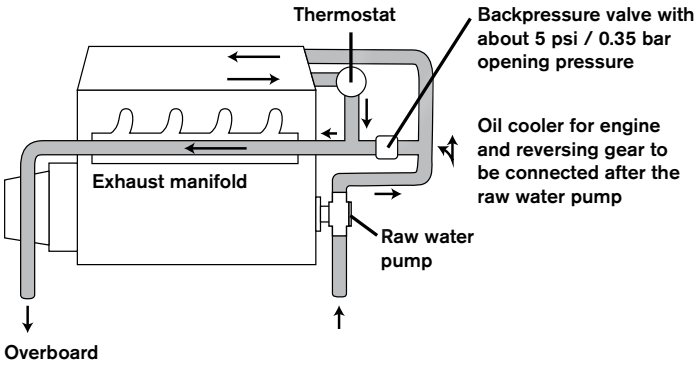
The F-series flexible impeller pumps provide an efficient solution for most raw water pumping requirements. Their primary advantage lies in their self-priming capability. As the vanes of the impeller are compressed and then rebound, they generate a vacuum that draws fluid into the pump. A dry pump can lift water up to 9.8 ft / 3 m, meaning that when used for engine cooling, the pump does not need to be installed below the waterline or manually primed.

Another benefit of flexible impeller pumps is their ability to handle relatively large solids without clogging or damaging the pump, reducing the need for pre-filtering the incoming fluid. For general raw or freshwater applications, the pumps are equipped with a durable neoprene rubber impeller.

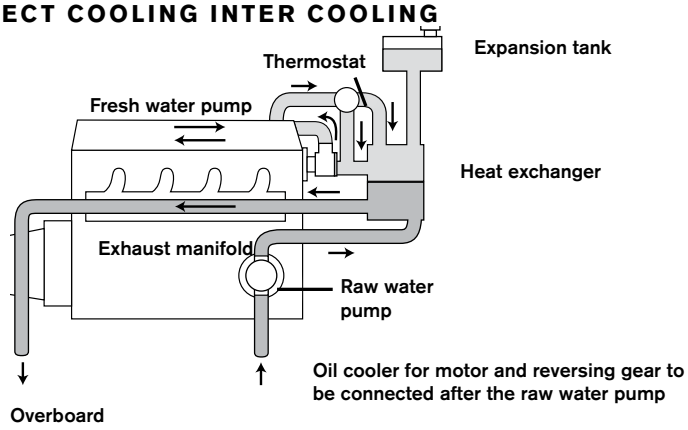
It is important to note that flexible impeller pumps must not be allowed to run dry for more than 30 seconds. Both the impeller and the seals rely on water for lubrication and will quickly fail if operated without fluid. To ensure long service life, wear parts are easily replaceable, and service kits are available for all standard models.

DIFFERENT TYPES OF COOLING SYSTEMS

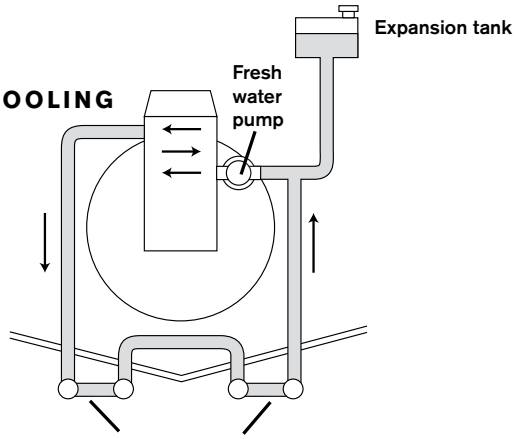
DIRECT COOLING

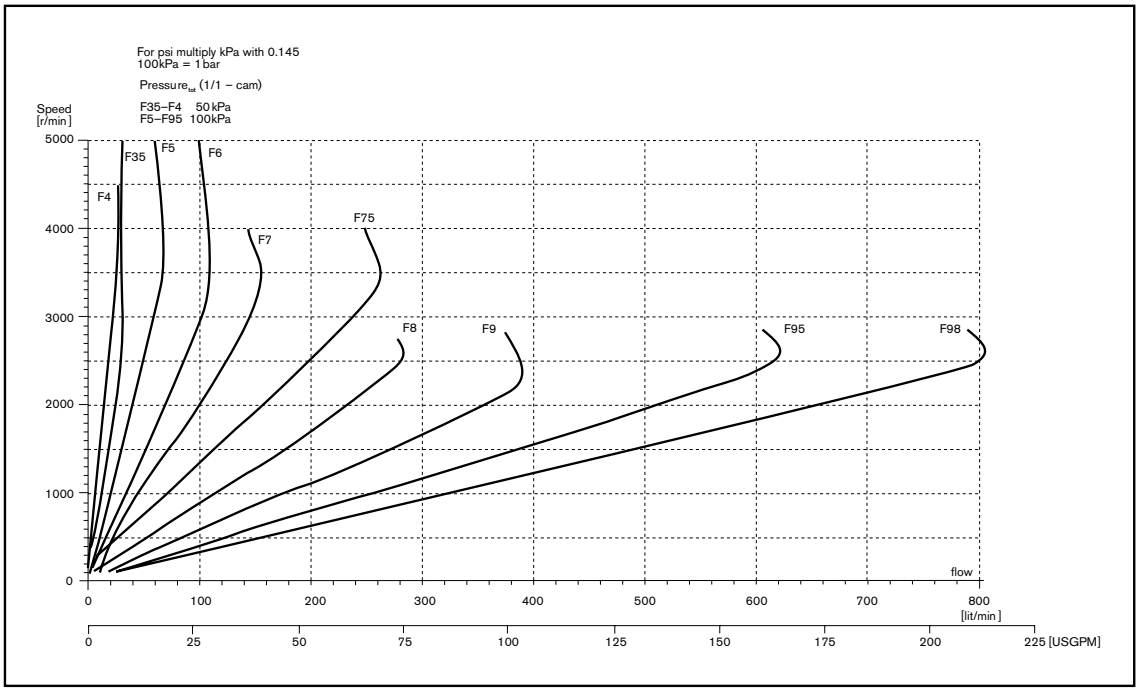


INDIRECT COOLING INTER COOLING



KEEL COOLING





Capacity Range
(based on water at 68˚F / 20˚C)

FRESH WATER HANDLING

For circulation within the internal, closed freshwater circuit of the cooling system, Johnson Pump offers several alternatives in its DC-driven Circulation Pump series (see page xx for further details). A flexible impeller pump is also commonly used for this purpose, provided it is installed on the cold side of the system, where temperatures do not exceed 131°F / 55°C.

Other options include belt-driven centrifugal pumps, which can also be effective in these applications. In a typical closed circuit, heat is transferred from the engine to the heat exchanger, with the circulating liquid consisting of a water and antifreeze mixture.

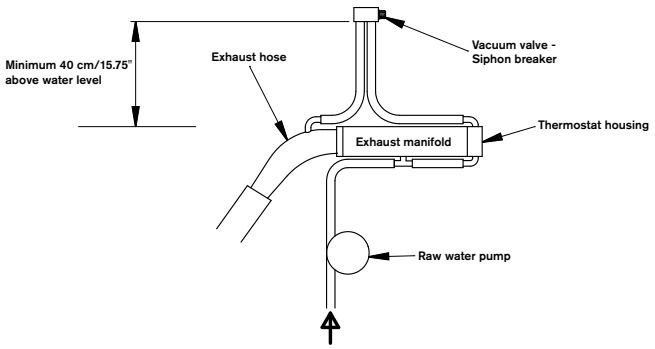
COOLING CAPACITY

The required output of the cooling pump – raw water as well as fresh water handling – is related to:

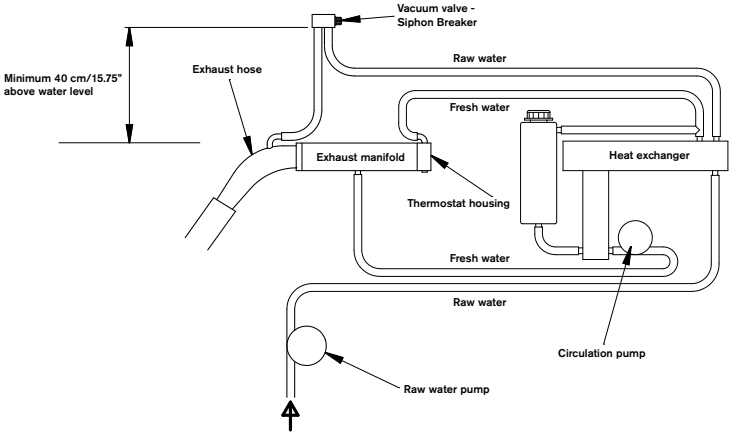
- Engine size and type (gasoline or diesel)
- Type of cooling system (size of heat exchanger)
- Water cooled engine oil, reverse gear, exhaust system

Contact your local dealer for more information, or for indirect cooling systems your supplier of heat exchangers.

Raw Water Cooled Engine



Fresh Water Cooled Engine



PUMP MOUNTING

The F-series engine cooling pumps are available in a variety of styles and sizes to meet different cooling system requirements. Options include flanged pumps, which mount directly to the engine, as well as crankshaft pulley-mounted pumps, suitable for a wide range of inboard engines.

Johnson Pump is a trusted original equipment supplier to many of the world's leading inboard engine manufacturers. Both flange-mounted and pulley-driven pedestal pumps provide reliable cooling with maximum ease and flexibility.

Pump ports are offered in sizes ranging from ⅜" / 9.5 mm to 2 ½" / 64 mm, ensuring compatibility with diverse system designs.

FLANGE MOUNTED PUMPS

Flange-mounted pumps are standard marine pumps manufactured in high volumes and often customized for direct flange-mounting at the engine's power take-off. This design ensures a secure, compact installation that minimizes alignment issues and simplifies maintenance.

They can be driven by various mechanisms, though gear drives and other mechanical coupling systems are most commonly used in marine applications. Flange-mounted pumps are valued for their durability, reliability, and ability to deliver consistent cooling and circulation performance under demanding operating conditions, making them a preferred choice for many inboard engine manufacturers.

CRANK SHAFT PULLEY MOUNTED

These pumps are designed for direct installation onto the engine crankshaft pulley and are capable of operating at speeds of up to 5,000 revolutions per minute (RPM). To prevent the pump body from rotating during operation, a torque bracket must be fitted, connecting the fastening point on the pump housing to a suitable mounting point on the engine.

PEDESTAL MOUNTED PUMPS

Pulley driven pedestal mounted pumps are used when a free driving pulley is available on the engine.

Two different types of pedestal mounted pumps are supplied:

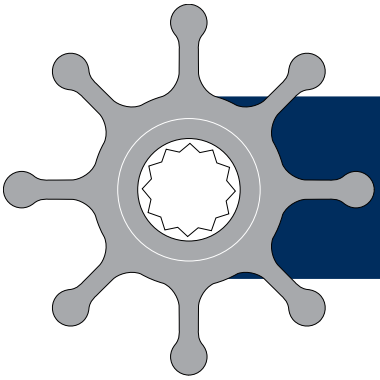
FB-8 BSP/ FB-8007 NPT

This range of bronze pumps features a compact design, making them ideal for use as cooling water pumps in marine engines. They are available in sizes from ⅜" / 9.5 mm to 1 ½" / 38 mm, and each model is equipped with permanently lubricated double ball bearings and a mechanical seal to ensure long-lasting performance and reliability.

FB-3000 BSP or Flange/ FB-3007 NPT

This series offers a range of extra heavy-duty pedestal-mounted pumps, ideally suited for cooling applications in commercial vessels. The design incorporates separate bearing housings with permanently lubricated double ball bearings, along with a mechanical shaft seal to ensure extended service life.

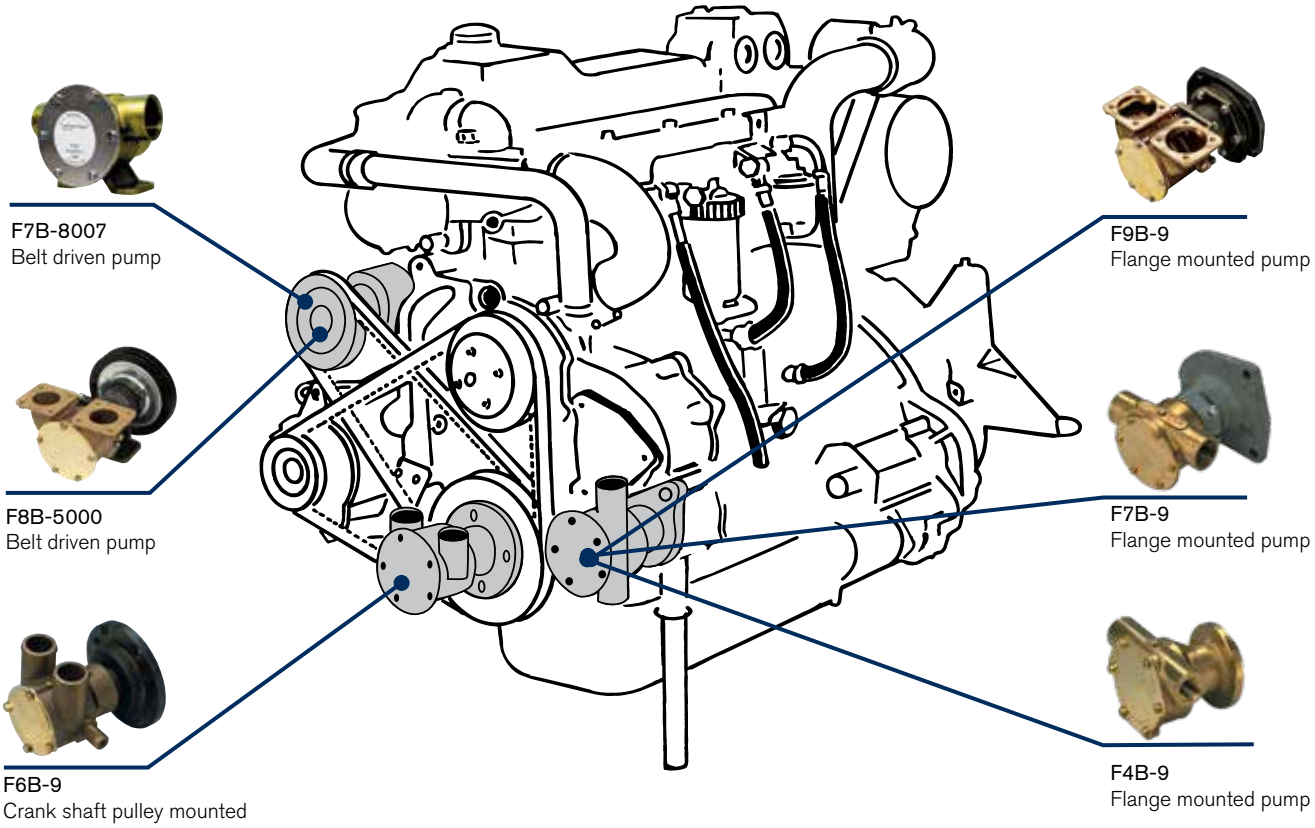
All key wetted components, including the wear plate, cam, and end cover, are easily replaceable, making maintenance straightforward and cost-effective while ensuring reliable performance in demanding marine environments.



Take good care of the cooling system - Change to a new impeller every year!

Digital Version: **Click to learn more about our MC97 Flexible Rubber Impellers.**





Accessories Impeller Pumps and Impellers

VACUUM VALVE - SIPHON BREAKER

Protect your engine with confidence. A vacuum valve is a cost-effective safeguard against water intrusion, helping you avoid the risk of costly repairs.

Designed for reliability, the valve operates at pressures between 7.47–12.45 mbar (30–50 mm water column) and is suitable for use in environments with ambient temperatures up to 140°F / 60°C.

Constructed from materials resistant to seawater, freshwater, and glycol mixtures in appropriate concentrations, this valve ensures long-lasting durability. To maintain peak performance, avoid exposure to oil or grease. If contact occurs, the valve should be cleaned thoroughly or replaced.

Compact, dependable, and engineered for marine conditions, the vacuum valve siphon breaker is an essential addition to any cooling system.



Part No.	Description
09-47316-01	Vacuum Valve 12 mm
09-47316-02	Vacuum Valve 16 mm
09-47316-03	Vacuum Valve 19 mm

Part No.	Description
09-47316-04	Vacuum Valve 22 mm
09-47316-05	Vacuum Valve 25 mm
09-47316-06	Service Kit Vacuum Valve

- Non corrosive
- Easy to install
- Does not leak
- High quality plastic
- 5 spud sizes

IMPULLERS

Removal tools for impellers.

Part No.	Description
09-47165-01	Puller for 09-1028BT
09-47163-01	Puller for 09-821BT
09-36166-01	Puller for 09-820B
09-47154-01	Puller for 09-812BT and 09-1027BT
09-950-9300	JP Impuller*

*Universal impuller used for all sizes and executions with or without threads


09-47165-01

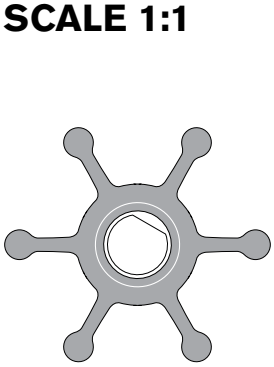

09-36166-01


09-47163-01

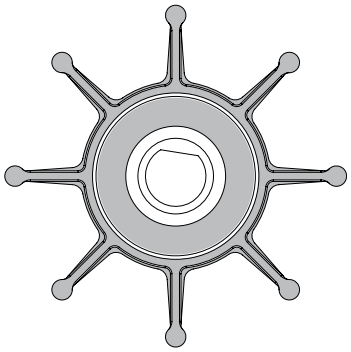

09-950-9300

Johnson Pump Marine Brand Original Impellers

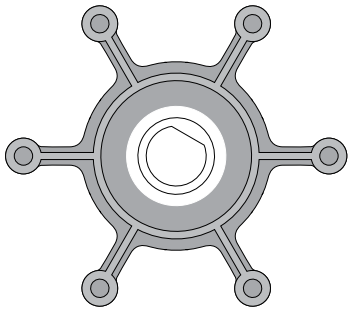
SCALE 1:1



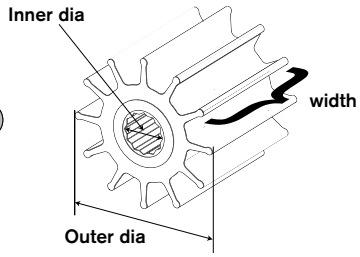
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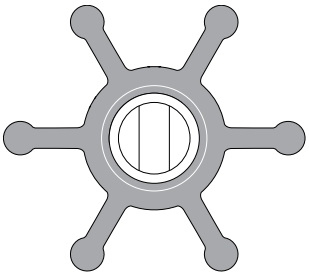


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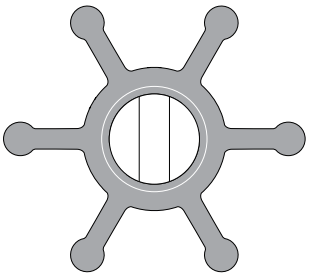


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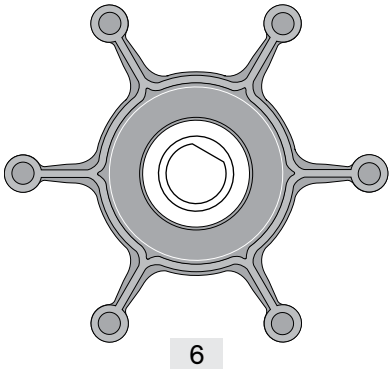




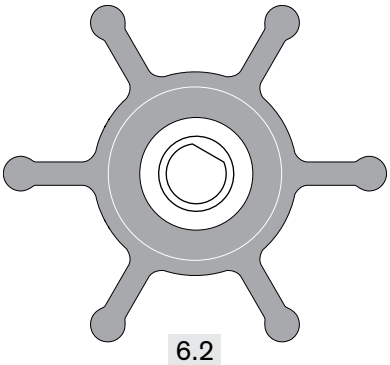
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5



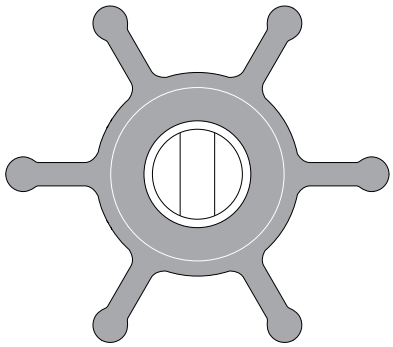
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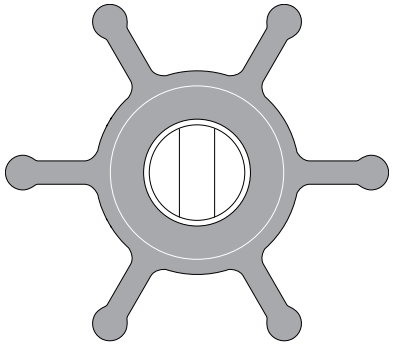
6.2

Ref.	Pump	Impeller Kit	Material *	Outer dia		Inner dia		Width		Replaces Jabsco No	
				mm	inch	mm	inch	mm	inch	Europe	USA
1	F2	09-1077B-9	Nitrile	35.2	1.29	8.0 / Flat	0.31 / Flat	12.7	0.50		
2	F3	09-843S-9	Nitrile	45.2	1.78	8.0 / Flat	0.31 / Flat	12.8	0.50		
3	TA3P10	09-1052S-9	Nitrile	45.2	1.78	8.0 / Flat	0.31 / Flat	12.8	0.50		
4	F35	09-806B-1	MC97/EPDM	40.0	1.58	9.5	0.37	19.0	0.75	4528-0001	
5	F35	09-808B-1	MC97/EPDM	40.0	1.58	12.0	0.47	19.0	0.75	22405-0001	
6	F4	09-824P-1	MC97/EPDM	50.8	2.00	8.0 / Flat	0.31 / Flat	22.0	0.87		
6	F4	09-824P-9	Nitrile	50.8	2.00	8.0 / Flat	0.31 / Flat	22.0	0.87	6303-0003	
6	F4	09-824P-2	Polyeurethane	50.8	2.00	8.0 / Flat	0.31 / Flat	22.0	0.87	6303-007-P “Green Impeller”	
6.2	F45	09-849P-2	Polyeurethane	51.0	2.00	8.0 / Flat	0.32 / Flat	44.0	1.74		

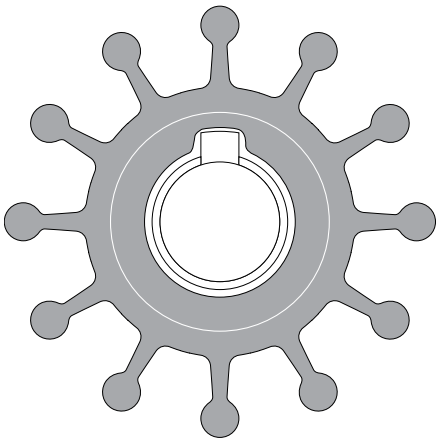
* MC97/EPDM and Neoprene - for cooling, Nitrile - oil resistant



7



8



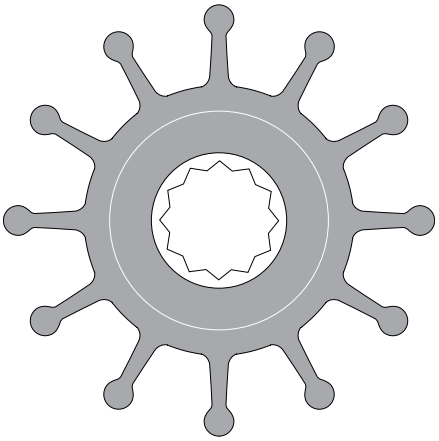
9

Ref.	Pump	Impeller Kit	Material *	Outer dia		Inner dia		Width		Replaces Jabsco No	
				mm	inch	mm	inch	mm	inch	Europe	USA
7	F4	09-810B-1	MC97/EPDM	50.8	2.00	12.0	0.47	22.0	0.87	18653-001	
7	F4	09-810B-9	Nitrile	50.8	2.00	12.0	0.47	22.0	0.87		
8	F4	09-1026B-1	MC97/EPDM	50.8	2.00	12.7	0.50	22.0	0.87	673-0001	
8	F4	09-1026B-9	Nitrile	50.8	2.00	12.7	0.50	22.0	0.87	673-0003	
9	F5	09-801B	Neoprene	57.1	2.25	15.9 Key	0.63 / Key	31.5	1.24	4568-0001	

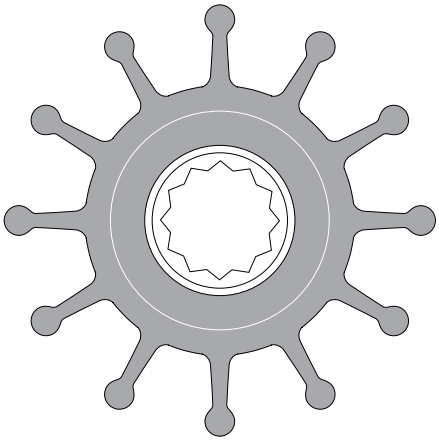
* MC97 and Neoprene - for cooling, Nitrile - oil resistant

Johnson Pump Marine Brand Original Impellers

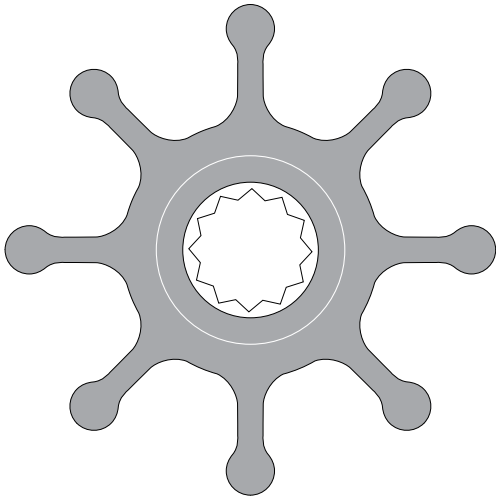
SCALE 1:1



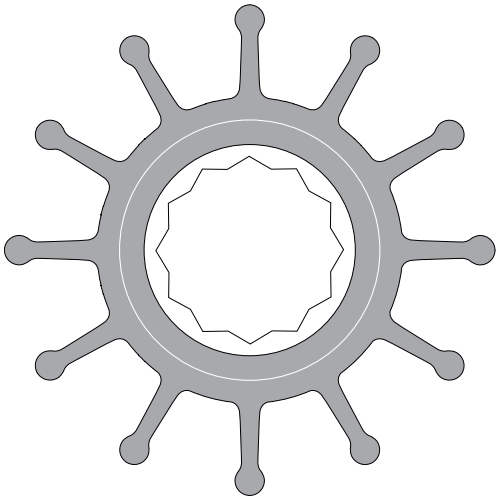
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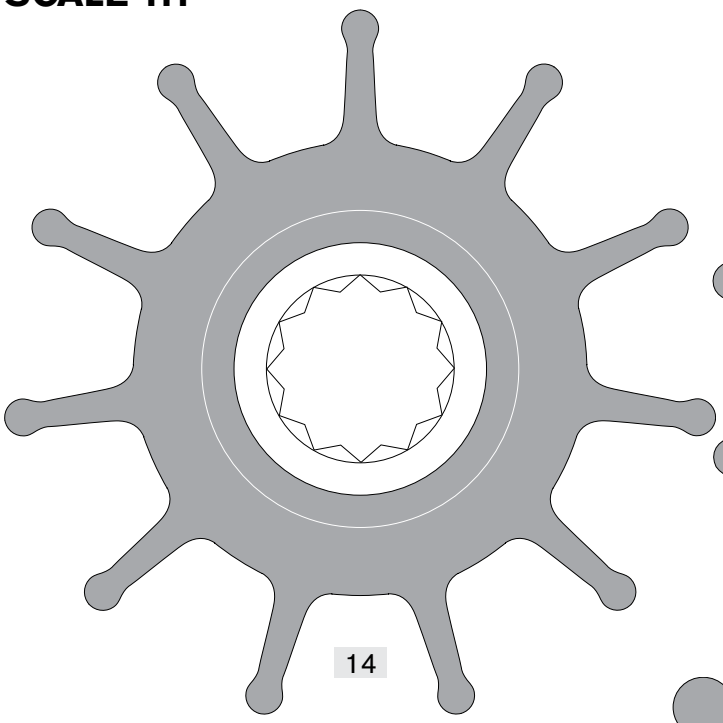
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Ref.	Pump	Impeller Kit	Material *	Outer dia		Inner dia		Width		Replaces Jabsco No	
				mm	inch	mm	inch	mm	inch	Europe	USA
10	F5	09-1027BT	Neoprene	57.1	2.25	Splines		31.5	1.24	1210-0001	
10	F5	09-1027B-1	MC97/EPDM	57.1	2.25	Splines		31.5	1.24	1210-0001	
10	F5	09-1027B-10	MC97/EPDM	57.1	2.25	Splines		31.85	1.24		
10	F5	09-1027B-9	Nitrile	57.1	2.25	Splines		31.5	1.24	1210-0003	
11	F6	09-812B	Neoprene	57.1	2.25	Splines		48.2	1.90	13554-0001	
11	F6	09-812BT-1	MC97/EPDM	57.1	2.25	Splines		48.2	1.90	13554-0001	
12	F7	09-1028B	Neoprene	65	2.56	Splines		50.2	1.98	17937-0001	
12	F7	09-1028BT-1**	MC97/EPDM	65	2.56	Splines		50.2	1.98	17937-0001	
12	F7	09-1028B-9	Nitrile	65	2.56	Splines		50.2	1.98	17937-0003	
13	F75	09-821BT-1**	MC97/EPDM	65	2.56	Splines		80	3.15		

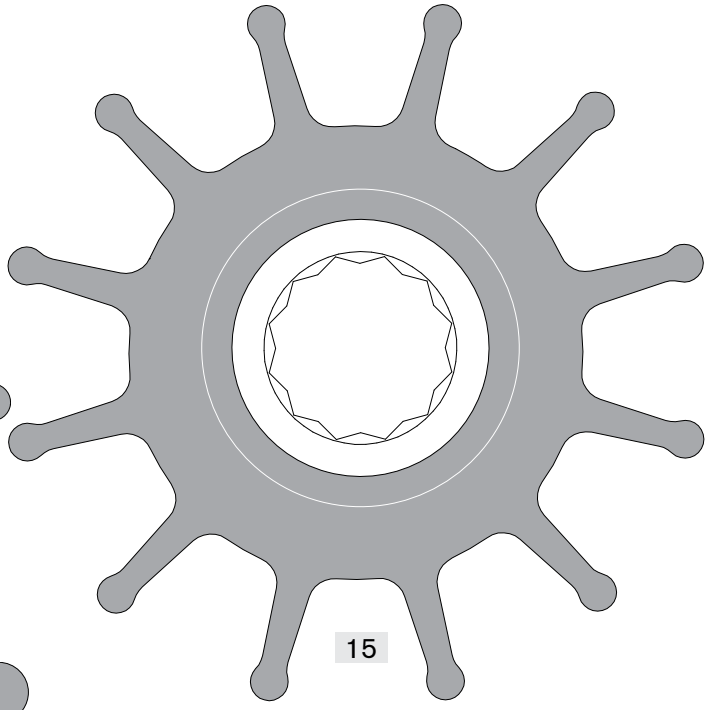
* MC97/EPDM and Neoprene - for cooling, Nitrile- oil resistant
** BT-1 replaces B

Johnson Pump Marine Brand Original Impellers

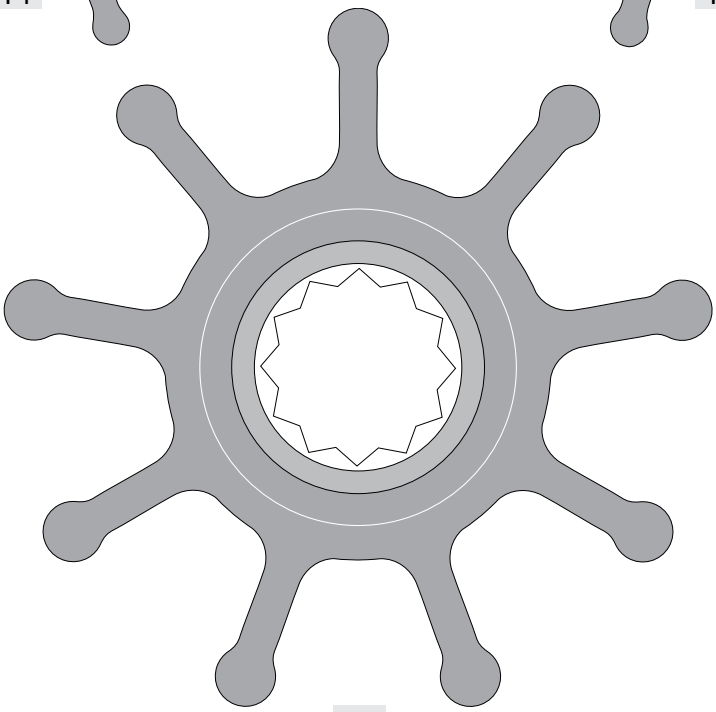
SCALE 1:1



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16

Ref.	Pump	Impeller Kit	Material*	Outer dia		Inner dia		Width		Replaces Jabsco No	
				mm	inch	mm	inch	mm	inch	Europe	USA
14	F8	09-819B	Neoprene	95	3.74	Splines		63	2.48	836-0001	17935-0001
14	F8	09-819B-9	Nitrile	95	3.74	Splines		63	2.48	836-0003	17935-0003
15	F9	09-814B	Neoprene	95	3.74	Splines		88.5	3.48	21676-0001	17936-0001
15	F95	09-820B	Neoprene	95	3.74	Splines		130	5.12		
15	F98	09-842B	Neoprene	95	3.74	Splines		180	7.09		
16	F9	09-802B	Neoprene	95	3.74	Splines		88.5	3.48	6760-0001	
16	F8	09-1029B[1)]	Neoprene	95	3.74	Splines		63	2.48	836-0001	17935-0001

[1)] Alternative impeller 09-819B

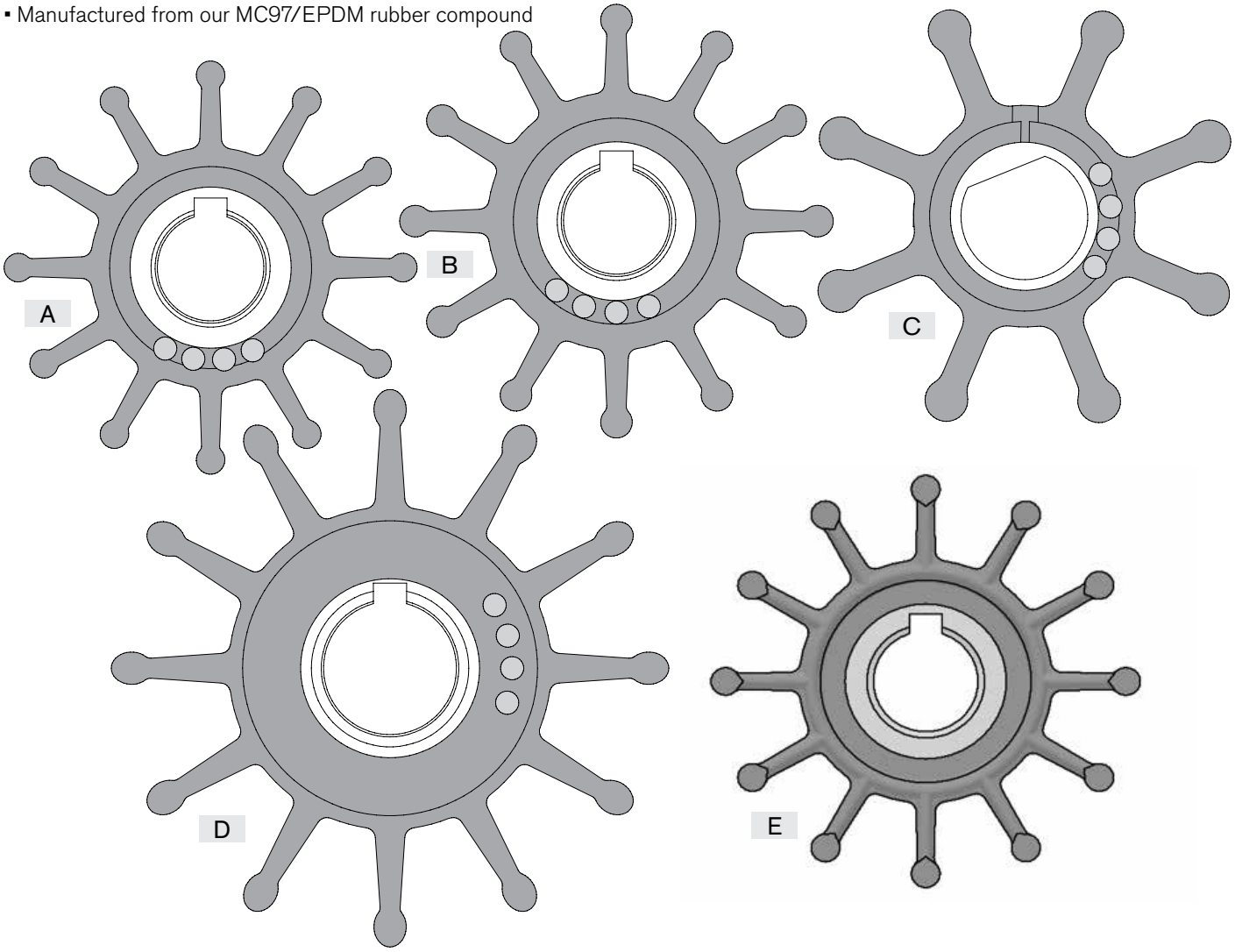
* MC97/EPDM and Neoprene - for cooling, Nitrile - oil resistant

Sherwood / Mercruiser Impeller Replacement Program

SCALE 1:1

Sherwood / Mercrusier owners can now take advantage of premium replacement impellers from Johnson Pump Marine.

- Manufactured from our MC97/EPDM rubber compound



Ref.	Pump	Impeller Kit	Material*	Outer dia		Inner dia		Width		Replaces Jabsco No	
				mm	inch	mm	inch	mm	inch	Europe	USA
A		09-701B-1		62.3	2.45			31.8	1.25	18838-0001	
B		09-702B-1		65.4	2.57			41.4	1.63	18948-0001	
C		09-703P-1	MC97/EPDM	66.7	2.63			51	2.01	17954-0001	
D		09-704BT-1		84.1	3.31			73.4	2.89	18958-0001	
E		09-707B-1		65.2	2.56			51.4	2.02	18327-0001	

* MC97/EPDM and Neoprene - for cooling, Nitrile - oil resistant

IMPELLER REPLACEMENT KITS

Ref.	Johnson Pump part no.	Sherwood part no.	Mercruiser part no.	Jabsco part no.	Engines / Pumps
A	09-701B-1	9959K	-	18838-0001	Chris Craft; Chrysler Marine; Commander; Crusader; Glastron Boat Co.; Gray Marine; Interceptor; Onan; OMC; Pathfinder VolksWagon Eng.; Perkins Eng. U.S.; Pleasurecraft Marine; Universal Medalist; Volvo Penta; Yamaha; Westerbeke 24102; Sherwood 11353; Pleasure Craft 302 and 351; Chris Craft 350; Onan MDL3,4
B	09-702B-1	10615K	-	18948-0001	Chris Craft; Chrysler Marine; Commander; Crusader; Escort (Skiltec); Gray Marine; Isuzu; Lenco; Marine Power; North American Engine; Onan; Osco Motors; OMC; Perkins Engine U.S.; Plesurecraft Marine; Volvo Penta; J.H. Westerbeke Corp; Crusader 97179; Chrysler 3675763; Chrysler 4142878; Cummins 4B; Onan MDL6; Chris Craft 454; Pleasure Craft 454
C	09-703P-1	-	47-59362T	17954-0001	Pump Quicksilver Model 46-72774 A32
D	09-704BT-1	17000K	-	18958-0001	Cummins 6B 300Hp B Series; Cummins C Series; CAT 3208; CAT 3116; CAT 3126; Deere 6076; Sherwood Pump P17 series
E	09-707BT-1	15000K	-	18327-0001-P	Cummins 4B; Cummins 6B; Cummins 4,2L QSD, Mercruiser 7,3L Diesel; Mercruiser 4,2 L QSD; AXIS M6Di (Malibu); Mercury 4,2L QSD

Key to Johnson Pump Type Specification System

PUMP TYPES F2-F98

Example: **F 7 B - 3 0 0 0**

Pump type
F = Flexible Impeller

Pump size
Generally increasing size ↓
2
3/35/38
4
5
6
7
75
8
9
95
98

Body material
B = Bronze
P = Plastic

Port connection
0 = BSP thread
7 = NPT thread (on request)

Cam size
0 = 1/1 - Standard
2 = 1/2
3 = 2/3

Impeller material
0 = Neoprene
1 = MC97/EPDM
2 = Polyeurethane
5 = Neoprene - Intermediate pressure
6 = Neoprene - High pressure
9 = Nitrile

Mounting
1 = Flange mounted to the motor
3 = Pedestal mounted with double ball bearings and mech. seal.
5 = Pedestal mounted with double ball bearings and mech. seal, magnetic clutch operated.
5001 = Compact unit with lip seal *
8 = General purpose with double ball bearings and lip seal *
9 = Custom, follows customer's specification

** F8B-5001, F8B-8 also available with mechanical seal*

TSS The Space Saver
VF Vertical Flange

SPARE PART KITS FOR GENERAL PURPOSE PUMPS

P/N	Desc	Service kit	Impeller kit
10-24569-01	F35B-8 HD IMPELLER PUMP ⅜" BSP PEDESTAL	09-46840	09-808B-1
10-24570-01	F4B-8 HD IMPELLER PUMP ⅜" BSP PEDESTAL	09-46841	09-810B-1
10-24571-01	F5B-8 HD IMPELLER PUMP ¾" BSP PEDESTAL	09-46843	09-1027B-1
10-24572-01	F7B-8 HD IMPELLER PUMP 1" BSP PEDESTAL	09-47427	09-1028BT-1
10-13021-1	F8B-8 HD IMPELLER PUMP 1½" BSP PEDESTAL	09-819B	09-819B

EXTRA HEAVY DUTY IMPELLER PUMPS		Service kit	Impeller kit
10-24210-1	F5B-3000 EXTRA HD IMPELLER PUMP ¾" BSP	09-45583	09-1027B-1
10-24209-1	F7B-3000 EXTRA HD IMPELLER PUMP 1" BSP	09-47425	09-1028BT-1
10-13024-1	F8B-3000 VF EXTRA HD IMPELLER PUMP	09-45579	09-819B
10-13175-01	F8B 3000 TSS EXTRA HD IMPELLER PUMP	09-45579	09-819B
10-13026-1	F9B-3000 EXTRA HD IMPELLER PUMP 2" BSP	09-45581	09-802B
10-13225-01	F9B 3000 VF EXTRA HD IMPELLER PUMP	09-45581	09-802B
10-13177-01	F9B 3000 TSS EXTRA HD IMPELLER PUMP	09-45581	09-802B
10-13121-01	F95B-3000 HF EXTRA HD IMPELLER PUMP 2½" BSP	09-46371	09-820B

HEAVY DUTY ELECTRO-MAGNETIC CLUTCH IMPELLER PUMPS		Service kit	Impeller kit
10-24577-99	F7B-5001 HD CLUTCH PUMP 1" BSP	09-47427	09-1028BT-1
10-13022-99	F8B-5001 HD CLUTCH PUMP 1½" BSP	09-45575	09-819B

EXTRA HEAVY DUTY ELECTRO-MAGNETIC CLUTCH IMPELLER PUMPS		Service kit	Impeller kit
10-24116-99	F7B-5000 EXTRA HD CLUTCH PUMP 1" BSP	09-47425	09-1028BT-1
10-13025-99	F8B-5000 VF EXTRA HD CLUTCH PUMP	09-45579	09-819B
10-13176-99	F8B 5000 TSS EXTRA HD CLUTCH PUMP	09-45579	09-819B
10-13027-99	F9B-5600 EXTRA HD CLUTCH PUMP 2" BSP	09-45582	09-814B
10-13226-99	F9B 5600 VF EXTRA HD CLUTCH PUMP	09-45582	09-814B
10-13178-99	F9B 5600 TSS EXTRA HD CLUTCH PUMP	09-45582	09-814B
10-13143-99	F95B-5000 HF EXTRA HD CLUTCH PUMP 2½" BSP	09-46371	09-820B

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