

Submersible Bilge Pump

L1600, L2200, L4000

IB-106 R04 (02/2012)

ORIGINAL INSTRUCTIONS/TRANSLATION OF ORIGINAL INSTRUCTIONS
READ AND UNDERSTAND THIS MANUAL PRIOR TO OPERATING OR SERVICING THIS
PRODUCT



Submersible bilge pump L1600, L2200 and L4000, 12/24 V

Submersible bilge pump for pumping bilge water in marine environment. To be installed in the keelson.

Security

- The pump may not be used for other liquids than water/bilge water.
- Always install the pump according to the wiring diagram, see page 16-18.
- Always use the fuse required, see "Design features" below.
- The wire connections must be sealed with a marine sealant.
- Insulation or cable sheathings must be placed above the highest bilge water level.
- Do not run dry.

Type designation

Pumptype	Part nr	
	(EU)	(USA)
L1600 12 V	32-1600-01	16004-00
L1600 24 V	32-1600-02	16084-00
L2200 12 V	32-2200-01	22004
L2200 24 V	32-2200-02	22084
L4000 12 V	32-4000-01	40004
L4000 24 V	32-4000-02	40084

Design features

	L1600	L2200	L4000
Hose size:	1 1/8"	1 1/8" or 1 1/2"	1 1/2" or 2"
Capacity, straight (13,6V/27V):	100 l/min/(1 600 GPH)	130 l/min/(2 060 GPH)	258 l/min/(4 100 GPH)
(12V/24V):	92 l/min/(1 450 GPH)	120 l/min/(1 900 GPH)	252 l/min/(4 000 GPH)
Capacity, 1 m head (13,6V/27V):	98 l/min/(1 550 GPH)	120 l/min/(1 900 GPH)	196 l/min/(3 100 GPH)
(12V/24V):	88 l/min/(1 400 GPH)	110 l/min/(1 750 GPH)	164 l/min/(2 600 GPH)
Voltage:	12/24 V DC	12/24 V DC	12/24 V DC
Amperage:	12V – 7A 24V – 3,5A	12V – 7,5A 24V – 4,5A	12V – 19,5A 24V – 10A
Fuse size:	12V – 10A 24V – 6A	12V – 12A 24V – 6A	12V – 25A 24V – 15A
Body:	Thermoplastic	Thermoplastic	Thermoplastic
Shaft:	SS2343	SS2343	SS2343
Shaft seal:	Lip seal	Mechanical seal, carbon/ceramic	Mechanical seal, carbon/ceramic
Wire size:	1,5mm ²	1,5mm ²	14 Gage
Max height:	149mm	177mm	216mm
Max dia:	108mm	108mm	121mm
Weight:	1,3 kg	2,25 kg	2,45kg

Installation

Please follow the installation instructions carefully to assure maximum efficiency in your bilge pump operation.

1. Remove the strainer from the bottom of the pump by depressing the lock tabs on both sides of the pump.
2. Determine the desired location for the pump. Usually it is placed in the lowest point of the bilge.

3. Position the strainer so that the pump nozzle is in the proper position to connect to the discharge hose.
4. Mount the strainer. If attaching the strainer to wood, fasten with stainless steel screws. If attaching the strainer to metal or fiberglass, first mount a wooden block and then fasten the strainer to the wooden block.
5. Mount the pump on the strainer so that both locktabs "snaps" into place.
6. Select a point where the bilge water is to be pumped overboard as high as possible above the water line and at the shortest distance from the pump. Install a 1 1/2" [L2200/L4000] or 1 1/8" [L1600/L2200] or 2" [L4000] thru-hull fitting. Note: The L4000 pump comes equipped with an integrated check valve to minimize back flow of water, however, over time water will seep back into the hull when the pump is not running. The use of flapper check valve will reduce maximum flow performance.
7. Fasten a 1 1/2" [L2200/L4000] or 1 1/8" [L1600/L2200] or 2" [L4000] fuel resistant hose from the pump outlet to the thru-hull fitting. Avoid sharp bends or loops. Support the hose if necessary. Note: In order to prevent air locks it is important that the hose not be allowed to dip below the pump outlet. The hose should be constantly rising.
8. Connect the brown wire to the positive (+) terminal of the battery, and the black wire to the negative (-) terminal of the battery. See wiring diagram, page 16-17.
9. Important: All electrical wiring must be clamped with the connections well above the bilge water level. Do not remove the insulation more than necessary. All wiring connections should be sealed with a marine sealant to avoid oxidation.

Maintenance

Regularly check the pump to be sure that the filter base and impeller are not clogged with debris. To clean, push in the tabs and lift up the pump housing. Note! The discharge hose need not be removed.

Accessories

Panel 12 or 24 V

Part No: (EU)	12 V – 34-1224	(USA)	82044
	24 V – 34-1225		82044-24

Electrical installation with panel Always install according to wiring diagram.

UltimaSwitch™

Part No: (EU)	34-36303	(USA)	36303
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BilgeAlert™

Part No: (EU)	34-72303	(USA)	72303
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Electronic Float Switch

Part No: (EU)	34-1900B-12V	(USA)	36152 (12 V)
	34-1900B-24V		36252 (24 V)

Automatic Float Switch

Part No: (EU)	34-888	(USA)	26014
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Waste handling & material recycling

At the products end of life, please dispose of the product according to applicable law. Where applicable, please disassemble the product and recycle the parts material.