



Stingray Installation and Operating Instructions 11/07/01:

Introduction:

The Stingray is a compact and powerful saltwater pressure system designed specifically for marine applications. It is comprised of a TEFC motor, integrated flow and pressure control, and a quiet multi-stage self-priming pump.

A check valve is incorporated into the inlet port of the Remora control panel. The Remora provides status information, dry tank protection and reset capability.

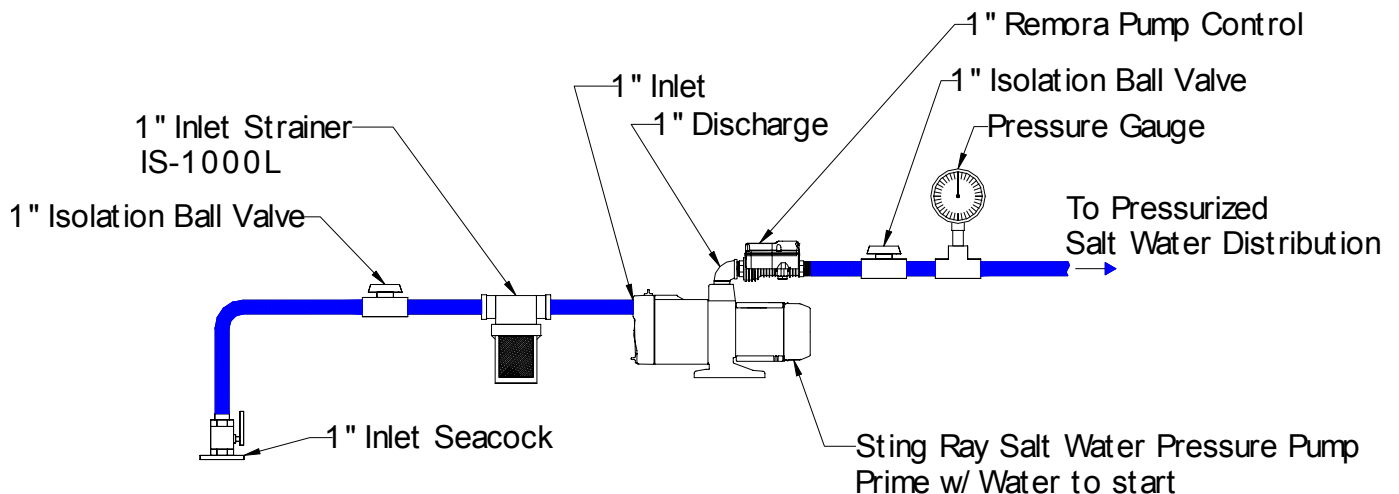
Mechanical Specifications:

Maximum Pressure*:	66 psi (4.5 bar)
Maximum System Pressure**:	110 psi (7.5 bar)
Maximum Suction Lift:	26ft (8m)
Minimum ambient temperature:	32°F (0°C)
Maximum ambient temperature:	120°F (49°C)
Inlet and discharge fitting:	1" inch male NPT (50Hz unit 1" Gas)
Dry Weight:	24 lbs (10.8 kg)

**Maximum pressure pump is capable of generating*

*** Maximum pressure pump is capable of withstanding*

Plumbing Installation:



1. Secure pump on level platform. Failure to comply may affect the ability of the pump to prime itself.
2. Connect the suction port of the pump to a 1" inch (25mm) minimum diameter suction pipe.

3. A Headhunter IS-1000, IS-1000S, or IS-1000L inlet strainer or equivalent must be installed on the suction pipe to protect the pump from debris.
4. An extra check valve is recommended in long suction piping runs between the strainer and the pump to help maintain prime.
5. Use pipe or non-collapsible hose for the suction piping. Install the suction pipe with an uphill run from the water source to the pump to prevent air locking.
6. Make leak proof connections to the 1" female NPT inlet connection and 1" male NPT discharge connection of the Stingray.
7. Install Headhunter PGM-100 Liquid Filled Pressure Gauge in the pump discharge piping.

Electrical Specifications:

	SR-115/60	SR-230/60	SR-230/50
Voltage (VAC):	115V -10/+10%	230V -10/+10%	230V -10/+10%
Current (Amps):	10 Amps	5 Amps	5 Amps
Power (Watts)	1000W	1000W	1000W
Frequency:	60 Hz	60 Hz	50 Hz
Enclosure:	IP44	IP44	IP44
Insulation Class:	B	B	B
Supply Cable:	ULSJTW-A	ULSJTW-A	HO7RN-F
Plug:	ULNema 5-15P	n/a	SCHUKO

Electrical Installation:

1. The Stingray has a pre-wired power cable designed to simplify installation. Qualified technicians should carry out electrical connections in accordance with standard marine or RVIA electrical regulations.
2. Make sure the voltage is correct for the pump. Check the technical label located on the side of the pump motor, and compare to the supply voltage.
3. Make sure the ground (earth) is connected properly.
4. **IMPORTANT!** If the plug is not used in 115VAC installations, make sure the brown wire is connected to the line, the blue wire is connected to the neutral, and the green wire is connected to the ground (earth).
5. **IMPORTANT!** For 230 VAC installations, connect brown and blue wires to L1 and L2. Connect the green/yellow wire to the ground (earth).

Start-up:

1. Prime the Stingray by unscrewing the priming plug and filling the pump with water. Tighten priming plug after filling is complete.
2. Open a faucet and turn the pump on. When the pump is started it will re-circulate some of the water until the pump is fully primed.
3. Upon closing the faucet, the pump will build up to its maximum pressure and then turn off after 15 seconds. Pressure at shut off will vary slightly depending on amount of lift required on the suction side.

Control Panel:

Located at the top of the Stingray is the Remora control panel that provides visual operating status indication and reset capability. Functions of the control panel are as follows;

Reset Button: Push the reset button to restart Stingray after an alarm condition has been rectified. For example, if the pump has shut itself down in a dry tank protection mode and water has been restored. After 5 reset operations, disconnect power to pump and then re-apply to restart the pump.

Power (Green LED): The green LED is on when power is available and the pump is ready to turn on when water is needed.

Alarm: (Red LED): The red LED is on when an alarm condition exists such as dry running,

Operation With No External Pressure Tank:

1. As soon as a faucet or toilet is activated, the Stingray will turn on instantly at maximum speed.
2. As soon as demand for water ceases, the pump will build up to max discharge pressure run an additional 15 seconds and shut off. The pump turns off when it senses no flow.

Operation With An External Pressure Tank:

1. The Stingray will turn on when the system pressure reaches the pre-set “cut-in” pressure.
Note: The cut-in pressure is adjustable at the Remora control panel.
2. As soon as demands for water ceases, the pump will build up to max discharge pressure run an additional 15 seconds and then shut off. The pump turns off when it senses no flow.

Troubleshooting Guide:

PROBLEM	CAUSE	SOLUTION
Pump does not start.	a. No water. b. Overheating due to high water temperature. c. Too low or too high supply voltage.	Check the water supply. Supply cold water <95°F (35°C) Check the supply voltage.

Pump runs continuously.	<ul style="list-style-type: none"> a. Leak in the piping. b. Inlet check valve is blocked or leaks. 	<p>Repair the leak.</p> <p>Clean the check valve or install a new check valve. Check the strainer.</p>
Pump stops during operation.	<ul style="list-style-type: none"> a. Dry running b. Overheating due to high water temperature. c. Too low supply voltage. 	<p>Check the water supply.</p> <p>Supply cold water <95°F (35°C).</p> <p>Supply correct voltage.</p>
Pump fails to reach maximum pressure	<ul style="list-style-type: none"> a. Restriction on the inlet plumbing. b. Leak on inlet plumbing. c. Pump not fully primed. 	<p>Remove restriction</p> <p>Repair leak on suction piping.</p> <p>Prime pump.</p>
Pump shuts off and shows alarm when it should not	<ul style="list-style-type: none"> a. Cut in Pressure switch set too high. 	<p>Turn cut in pressure switch counter clock wise to set cut in pressure no higher than 40 psi.</p>

Need Technical assistance? Contact an application engineer via phone, faxes, or email.

H E A D H U N T E R

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EU Certificate of Conformity

We,

Headhunter Inc., 3380 SW 11th Avenue, Fort Lauderdale, FL 33315 – USA,
Declare in sole responsibility that the products hereunder mentioned and to which this
certificate applies, are in conformity with the basic and safety requirements of EC Directives:

97/23/ECC
EC-Machinery Directive 98/37
Low Voltage Directive 73/23/ECC
Directive of Electromagnetic Compatibility 89/336/ECC
Directive 93/68/ECC
Noise Level Directive 2000/14 ECC

Stingray

To give effect to the correct application of the safety and health requirements stated in the EC
Directives, the following standards and / or technical specifications were consulted:

EN ISO 12100-1
EN ISO 12100-2
EN 60335-1
EN 60335-2-41
EN 55014-1
EN 61000-3-2
EN 61000-3-3
EN 61000-6-3