



# TORRID MARINE

YACHT QUALITY  
MARINE WATER HEATERS  
Since 1979



## THE LEADER IN MARINE WATER HEATERS



## YACHT QUALITY MARINE WATER HEATERS

[www.torridmarine.com](http://www.torridmarine.com) | 8895 Three Tree Lane NE, Suite 8, Bainbridge Island, WA 98110 | 800-722-5123





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## EXPLORER SERIES MARINE WATER HEATERS

**2IX Models** – Two Heat Exchangers and One Heating Element

**2IX 2EL Models** – Two Heat Exchangers and Two Independent Heating Elements

The Explorer Series Marine Water Heaters have all the same components as the Standard IX Series. The differences are the two heat exchangers and the option of one or two independent heating elements.



### ELECTRICAL COMPONENTS:

Tinned marine-grade (ABYC approved) wiring and UL listed, ignition-protected thermostats power the UL listed Incoloy sheathed stainless steel immersion elements.

Upper Element, Thermostat and Wiring Conduit Elbow.

Lower Element, Thermostat and Wiring Conduit Elbow (Usually reserved for higher power configuration).

**HEAT EXCHANGER:** The IX high performance internal coil offers 2.5X the heat exchanger length of traditional heat exchangers. The internal coil is installed when the inner tank is manufactured.

The fittings are  $\frac{3}{4}$ " NPT which connect using a  $\frac{3}{4}$ " NPT coupler or elbow.

Top Heat Exchanger Coil

Bottom Heat Exchanger Coil



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Model	Capacity	Length* or Height	Diameter
MHS 30 2IX	30 GAL / 113.6 L	34.5"* / 876 mm	20" / 508 mm
MHS 40 2IX	40 GAL / 151.4 L	37"* / 940 mm	22" / 559 mm
MVS 18 2IX 2EL	18 GAL / 68.1 L	32.75" / 831.9 mm	16" / 406 mm
MVS 30 2IX	30 GAL / 113.6 L	31" / 787.4 mm	20" / 508 mm
MVS 30 2IX 2EL	30 GAL / 113.6 L	31" / 787.4 mm	20" / 508 mm
MVS 40 2IX	40 GAL / 151.4 L	33" / 838.2 mm	22" / 559 mm
MVS 40 2IX 2EL	40 GAL / 151.4 L	33" / 838.2 mm	22" / 559 mm
MVS 50 2IX	50 GAL / 189.2 L	42" / 1041.4 mm	22" / 559 mm
MVS 50 2IX 2EL	50 GAL / 189.2 L	42" / 1041.4 mm	22" / 559 mm

- The 2IX Explorer Series has two high efficiency heat exchangers that are built into the inner tank and allows the water to be heated by the coolant from the engine(s), hydronic heating system or generator.
- The Torrid glass lined inner tank is much like a "thermos" container, which reduces exposure of the hot water to other metals.
- Foam insulated for excellent R-value and efficiency.
- Incoloy sheathed stainless steel elements that eliminate run-dry damage and protect element from chlorinated water from shore-side sources.
- Magnesium anodes used to prevent corrosion inside the tank.
- Adjustable thermostats.
- Temperature and pressure relief valves: pressure relief at 100 psi and temperature relief at 210 F.
- Each Torrid Marine water heater goes through an extensive quality control and pressure check before shipping.
- Built with 304 stainless steel outer jacket. Gloss White Powder Coat is available.
- Available in a variety of power configurations. The 2IX models come with one heating element and the 2IX 2EL Models come with two independent heating elements. The following are the most popular depending on capacity of the water heater: 120V 1500W, 120V 2000W, 240V 1500W, 240V 2000W, 240V 3000W, 240V 4000W or 240V 4500W.
- UL Listed and Ignition protected parts.
- 5-year warranty.
- Installation Kits available.
- Tank Booster Mixing Valve available.
- Replacement parts available.



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## STANDARD VERTICAL IX SERIES MARINE WATER HEATERS

**INNER TANK:** Inner tanks vessels are designed to A.S.M.E.™ standards. Vessels are designed to withstand an operating pressure of 150 P.S.I.

Glass lining minimizes electrolytic effects, and the non-porous, porcelain surface deters bacterial growth.

**RELIEF VALVE:** Per United States Coast Guard requirements, Torrid tanks are equipped with a Cash Acme® (ASME & CSA Listed) 210 Fahrenheit, 100 P.S.I. T&P Relief Valve.

**FITTINGS:** Inlet, outlet, and heat exchanger ports are 3/4" NPT threads. The hot water outlet is a PEX dip tube to eliminate trapped air and prevent bacteria growth.

\*Fittings extend 3" and feet 1-1/2" from side of water heater.

**MOUNTING FEET:** Heavy duty floor brackets for added security.

**INSULATION:** Torrid tanks are insulated with foam insulation, providing excellent heat retention.

**ANODE PROTECTION:** Torrid water heaters feature extra anode protection for ultimate electrolysis protection. Extruded Magnesium anodes. New easy access anode ports on the forward-facing side.

**MATERIALS:** Marine grade 304 stainless steel and stainless hardware for ultimate corrosion resistance and engine room cleanliness.

**HEAT EXCHANGER:** The IX high performance internal coil offers 2.5X the heat exchanger length of traditional heat exchangers. The internal coil is installed when the inner tank is manufactured.

The fittings are 3/4" NPT which connect using a 3/4" NPT coupler or elbow.

**ELECTRICAL COMPONENTS:** Tinned marine-grade (ABYC approved) wiring and UL listed, ignition-protected thermostats power the UL listed Incoloy sheathed stainless steel immersion elements.





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Model	Capacity	Height	Diameter *
<b>MVS 6 IX</b>	6 GAL / 22.7 L	17.25" / 438 mm	14" / 356 mm
<b>MVS 10 IX</b>	10 GAL / 37.9 L	17.75" / 451 mm	16" / 406 mm
<b>MVS 15 IX</b>	15 GAL / 57.8 L	24" / 610 mm	16" / 406 mm
<b>MVS 17 IX</b>	17 GAL / 64.3 L	28.25" / 718 mm	16" / 406 mm
<b>MVS 20 IX</b>	20 GAL / 75.7 L	23" / 584 mm	20" / 508 mm
<b>MVS 30 IX</b>	30 GAL / 113.6 L	31" / 787.4 mm	20" / 508 mm
<b>MVS 40 IX</b>	40 GAL / 151.4 L	33" / 838.2 mm	22" / 559 mm
<b>MVS 50 IX</b>	50 GAL / 189.2 L	41.50" / 1054.1 mm	22" / 559 mm
<b>MVS 80</b>	80 GAL / 302.8 L	62" / 1574.8 mm	22" / 559 mm

- The IX high efficiency heat exchanger is built into the inner tank and allows the water to be heated by coolant from the engine(s), generator, or hydronic heating system.
- The Torrid glass lined inner tank is much like a "thermos" container, which reduces exposure of the hot water to other metals.
- Foam insulated for excellent R-value and efficiency.
- Incoloy sheathed stainless steel elements that eliminate run-dry damage and protect element from chlorinated water from shore-side sources.
- Magnesium anodes used to prevent corrosion inside the tank.
- Adjustable thermostats.
- Temperature and pressure relief valves: pressure relief at 100 psi and temperature relief at 210 F.
- Each Torrid Marine water heater goes through an extensive quality control and pressure check before shipping.
- Built with 304 stainless steel outer jacket. Gloss White Powder Coat is available on certain models.
- Available in a variety of power configurations. The following are the most popular depending on capacity of water heater: 120V 1500W, 120V 2000W, 240V 1500W, 240V 2000W, 240V 3000W, 240V 4000W or 240V 4500W.
- UL Listed and Ignition protected parts.
- 5-year warranty.
- Installation Kits available.
- Tank Booster Mixing Valve available.
- Replacement parts available.



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## STANDARD HORIZONTAL IX SERIES MARINE WATER HEATERS

The same components that are on the Vertical IX Series Marine Water Heaters are also found on the Horizontal IX Series.

**RELIEF VALVE:** Per United States Coast Guard requirements, Torrid tanks are equipped with a Cash Acme® (ASME & CSA Listed) 210 Fahrenheit, 100 P.S.I. T&P Relief Valve.

**HEAT EXCHANGER:** The IX high performance internal coil offers 2.5X the heat exchanger length of traditional heat exchangers. The internal coil is installed when the inner tank is manufactured.

The fittings are 3/4" NPT which connect using a 3/4" NPT coupler or elbow.

**ELECTRICAL COMPONENTS:** Tinned marine-grade (ABYC approved) wiring and UL listed, ignition-protected thermostats power the UL listed Incoloy sheathed stainless steel immersion elements.

**INSULATION:** Torrid tanks are insulated with foam insulation, providing excellent heat retention.

**ANODE PROTECTION:** Torrid water heaters feature extra anode protection for ultimate electrolysis protection. Extruded Magnesium anodes. New easy access anode ports on the forward-facing side.

**INNER TANK:** Inner tanks vessels are designed to A.S.M.E.™ standards. Vessels are designed to withstand an operating pressure of 150 P.S.I.

Glass lining minimizes electrolytic effects, and the non-porous, porcelain surface deters bacterial growth.

**FITTINGS:** Inlet, outlet, and heat exchanger ports are 3/4" NPT threads. The hot water outlet is a PEX dip tube to eliminate trapped air and prevent bacteria growth.

\*Fittings extend 3" and feet extend about an 1" from the face and rear of water heater.

**MATERIALS:** Marine grade 304 stainless steel and stainless hardware for ultimate corrosion resistance and engine room cleanliness.

**MOUNTING FEET:** Heavy duty floor brackets for added security.



Model	Capacity	Cylinder Length	Installation Space Required	Diameter
MHS 6 IX	6 GAL / 22.7 L	19" / 482.6 mm	21.5"	14" / 356 mm
MHS 10 IX	10 GAL / 37.9 L	27" / 685.8 mm	29.5"	14" / 356 mm
MHS 17 IX	17 GAL / 64.3 L	31" / 787.4 mm	34"	16" / 406 mm



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## 3-PHASE MARINE WATER HEATERS



**3-Phase Water Heaters** Horizontal and Vertical 30, 40, 50, 65 & 80 gallon configurations are available. These have three heating elements and external electrical control boxes with fused breakers. A 10 ft cord connects the water heater to the control box. Each build is considered a custom build to match the 3-Phase Power of the vessel. Heat Exchangers are possible on most models as well.

**MHS503P – Horizontal 50 Gallon Stainless Steel Marine Water Heater with 3-Phase Power**

**MVW403P – Vertical 40 Gallon Gloss White Marine Water Heater with 3-Phase Power**

**MVS40IX3P – Vertical 40 Gallon Stainless Steel Marine Water Heater with Heat Exchanger and 3-Phase Power**





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## CUSTOM MARINE WATER HEATERS



**Gloss White Powder Coating**  
**MVW20IX** – All Vertical Water Heaters 20 Gallons and greater can have their 304 Stainless Steel outer jacket powder coated to a gloss white for an extra fee.  
**MVW502IX2EL**



**80 Gallon Vertical Units** – These water heaters can be built with either two or three heating elements. The elements can be wired independently or in series. This model does not have the internal heat exchanger coils.  
**MVW803EL**

**NO Heat Exchanger** - The 20 Gallon and the 80 Gallon are two models available without internal heat exchangers. We can also cap the heat exchanger openings on other models if that is desired. Capping allows for access to the heat exchangers later if desired.  
**MVS20NOIX** – Vertical 20 Gallon Stainless Steel Marine Water Heater with No heat Exchanger



**Heat Exchanger Only Water Heater** – This water heater is heated via a separate boiler system. An aquistat controller controls the amount of heat that comes from the boiler.  
**MVS754IX** – Vertical 75 Gallon Stainless Steel Marine Water Heater with 4 Heat Exchangers



**Inquire for other options.**





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## INSTALLATION SUGGESTIONS



**Installation Considerations** – Torrid Marine can help figure out how to optimize the installation of your new Torrid Marine Water Heater.

Some things to think about:

- Is a Calcite Buffer needed?
- Is it going to be accessible for maintenance?
- How is going to be drained for maintenance?
- Can the flow of water and coolant be shut off or diverted?



A Calcite Buffer is recommended when using reverse osmosis water makers. The RO water is slightly acidic. When it enters the water heater, it tries to balance back to PH neutral by re-mineralizing from the anode. If anode is depleted, it will attack the fittings next.

Access to anodes, access door that protects the thermostat and element and the inlet or drain are necessary for maintenance and troubleshooting.

Not all models have a dedicated drain. We recommend using a 3-way ball valve that has a GHT (Garden Hose Thread) fitting so that a hose can easily be attached for draining during maintenance.





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## INSTALLATION KIT



- Temperature Gauge with Union Swivel – Lead Free
- 3 – 3/4" NPT Union Swivel Couplers – Lead Free
- 4 – 3/4" NPT Street Elbows – Lead Free
- 4 – 3/4" NPT x Close Brass Nipples – Lead Free
- 2 – 3-Way Ball Valve with 2 - 3/4" NPT Connections and 1 GHT Connection, LF
- 2 – 3/4" NPT Ball Valves – Lead Free
- 1 – 3/4" Spring Loaded Check Valve – Lead Free
- 1 – 4 oz Tru-Blu Vibration Resistance Thread Sealant
- 1 – Roll of 1/2" Blue Monster PTFE Thread Tape

## MAINTENANCE CONSIDERATIONS

### Annual Anode Inspection

Anodes should be inspected every year as part of routine maintenance. Every other year may be fine depending on circumstances. However, if you have never changed the anodes and it has been more than two years, it is recommended to leave them in place as the head of the anode may have "welded" itself in place and attempted removal risks damage.

### 5-year Recommended Maintenance

Every five years it is a good idea to replace the anode, element, thermostat and the temperature and pressure relief valve.





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## REPLACEMENT PARTS

Magnesium Anodes



Incoloy Sheathed  
Stainless Steel  
Elements



T&P Relief  
Valve

Adjustable  
Thermostat



All replacement parts are available online at [www.torridmarine.com](http://www.torridmarine.com).

## ANODE SIZE CHART FOR ALL WATER HEATER MODELS

Vertical Format Water Heaters			Horizontal Format Water Heaters	
Capacity	Top Anode	Side Anode	Capacity	Side Anode
6 Gallon	-	12"	6 Gallon	12"
10 Gallon	-	12"	10 Gallon	12"
15 Gallon	-	12"	17 Gallon	18"
17 Gallon	-	12"	30 Gallon	28"
20 Gallon	-	18"	40 Gallon	28"
30 Gallon	-	18"	50 Gallon	60"
40 Gallon	28"	18"	65 Gallon	60"
50 Gallon	60" or 60"Chain	18"		
65 Gallon	60" or 60"Chain	18"		
80 Gallon	60" or 60"Chain	18"		



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