



Heat Pump Winterizing Procedures



-Titanium Models Only-

USE THESE INSTRUCTIONS FOR HEAT EXCHANGERS THAT LOOK LIKE THIS

IF UNSURE OF WHICH HEAT EXCHANGER YOU HAVE,
CONTACT AQUACAL: 800-786-7751



CAUTION !

Failure to heed the following can result in damage to equipment and/or property.

Failure to properly winterize heat pump may result in serious equipment damage. Freeze damage is not covered under the heat pump warranty.

CAUTION !


Failure to heed the following can result in damage to equipment and/or property.

While the plumbing connections are in the winterized condition (not fully tightened), it is imperative pool/spa water not be circulated through the heat pump. Loss of water through loose plumbing connections may result in damage to circulating pump, pool/spa structure, and/or other equipment.

LIGHT-FREEZE CONDITIONS

(Air temperature does not remain below 32°F for more than 4-hours)

In the event your heater will not be used for an extended period, it is recommended pool water be allowed to circulate through the heater during normally scheduled filtration cycles. If light freeze conditions are expected, adjust water pump controls for continuous operation throughout the light freeze episode. Moving water will not freeze under light-freeze conditions. Remain aware of abnormal climatic conditions; use "Hard-Freeze" instructions (below) if freezing conditions will exceed 4-hours.

Hard-Freeze Conditions... See Following Pages 

HARD-FREEZE CONDITIONS

(Air temperature remains below 32°F for more than 4-hours)

Procedure for Heaters Equipped with an Internal Drain

WARNING !

Failure to heed the following may result in permanent injury or death.

To avoid injury from rotating equipment, disconnect electrical power from heat pump before proceeding with INTERNAL DRAIN winterizing process.

(Refer to Figures 1 & 2, Below)

1. Disconnect all electrical power to the heater; turn OFF circulating pump.
2. At the two (2) connection unions, disconnect the plumbing to the heater (removal is counterclockwise).
3. Remove the front plastic panel by removing the screws shown in Figure-1. Exact location of screws will vary by model.
4. Locate the drain plug at base of the titanium condenser and remove (removal is counterclockwise). See Figure-2.
5. Permit all water to drain from the condenser, and then, threading clockwise, replace the plug finger-tight.
6. Reinstall the heater front cover and secure with attaching screws previously removed.
7. To prevent insects and vermin from entering the plumbing during the winterized period, partially reconnect the two (2) plumbing connection unions. Couple each union one or two threads; this will permit condensation to drain, but will prevent most insects and animals from entering the plumbing circuit.
8. Next Season: To ready the heat pump for use, simply retighten plumbing connection unions. Hand-tight is generally sufficient.

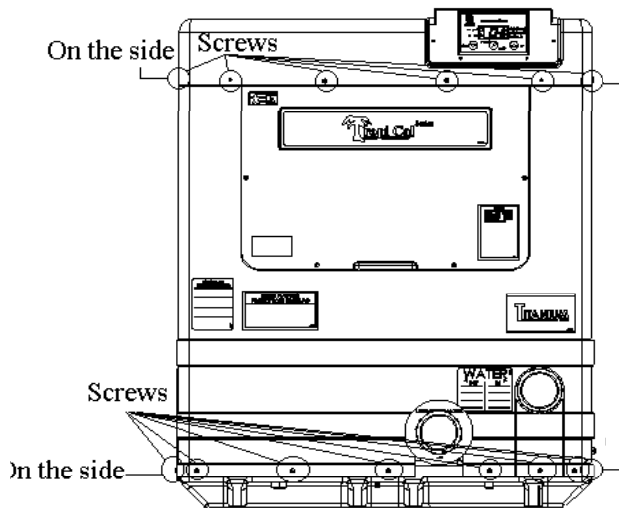


Figure 1

On the side

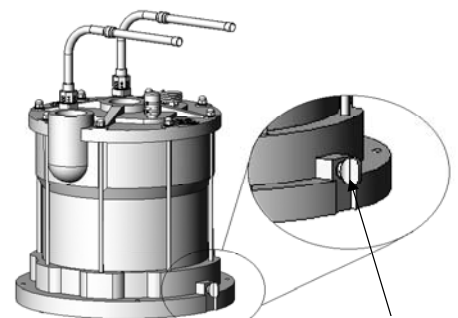


Figure 2

Drain Plug

On the side

Internal Winterizing Drain

HARD-FREEZE CONDITIONS *(Continued)*

Procedure for Heaters Equipped with an External Drain

(Refer to Figure-3, below)

1. Disconnect all electrical power to the heater; turn OFF circulating pump.
2. At the two (2) connection unions, disconnect the plumbing to the heater (removal is counterclockwise).
3. Locate the drain plug at outside, lower front of heater. See Figure-3.
4. Using a 5/8", box-end wrench, remove the drain plug (removal is counterclockwise). Note: Some models use a thumb-turn plug...no wrench req.
5. Permit all water to drain from the condenser and then replace the plug: thread the plug in clockwise until just snug, then apply an additional 1/8 turn.
6. To prevent insects and vermin from entering the plumbing during the winterized period, partially reconnect the two (2) plumbing connection unions: couple each union one or two threads; this will permit condensation to drain, but will prevent most insects and animals from entering the plumbing circuit.
7. Next Season: To ready the heat pump for use, simply retighten plumbing connection unions. Hand-tight is generally sufficient.

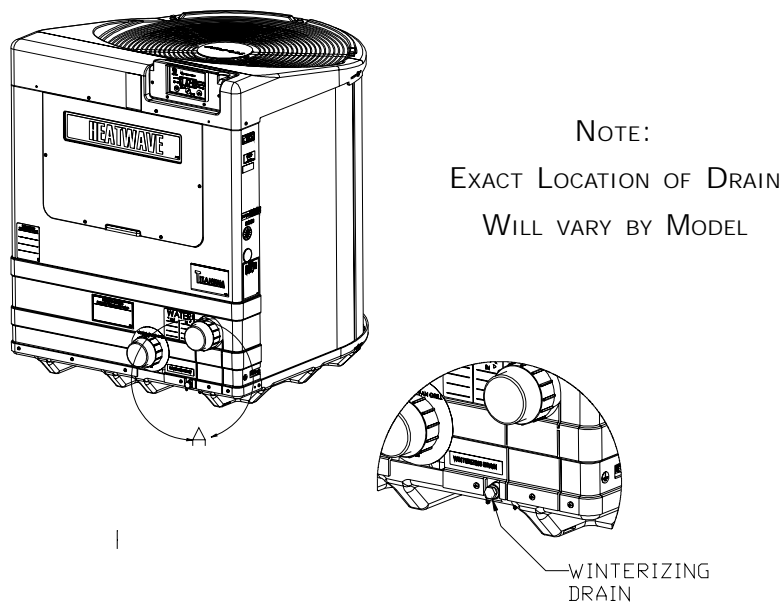


FIGURE 3

External Winterizing Drain

An Additional Note Concerning all Heaters:

During heater lay up, to prevent leaves, snow, and other debris from falling into the heater through the fan grill, a cover is suggested. This cover should be allowed to completely envelop the fan grill, and fan cabinet top. Closing in the sides of the heater is *not* recommended; doing so would produce an attractive environment for vermin to nest. Heaters equipped with a hinged "Cool Cap" do not require additional covering.