

# Inspection Check Sheet

**The Space Heating Module by ITR**

**February 9, 2005**

## NOTICE

No warranty will be extended to unapproved, unauthorized or improper installations. Use of any materials or equipment unsuited for their intended use will result in a voided warranty for The Space Heating Module.

This Inspection Check Sheet is intended for use after the Space Heating Module has been installed; it should also be used informally to monitor progress during the installation. Only authorized personnel may carry out the inspection and testing

No rewiring of the Space Heating Module is permitted unless it has been pre-approved by ITR.

## 1. Before Start-up

✓	Step	1. Before Start-up
	<b>1</b>	The Space Heating Module and all components are mounted in an appropriate location according to ITR recommended guidelines, with required clearances for maintenance at the front of the unit.
	<b>2</b>	All components, accessories and materials are ITR-manufactured or appropriate for their intended use.
	<b>3</b>	Length, routing and sizing of coolant and domestic water hoses, and air vents, are of a suitable type and have been installed and connected according to the installation guide standards.
	<b>4</b>	All DC wiring connections are in accordance with ITR guidelines and correctly secured, sized and installed according to normally-accepted wiring practices and applicable standards (CSA or National Electrical Code).
	<b>5</b>	A 15 Amp fuse is correctly positioned in line from the power source to the positive connection to the Space Heating Module zone board.
	<b>6</b>	The 2 pin connector cable on the Space Heating Module zone board is connected to the clip on aquastat on The WaterHeater™.
	<b>7</b>	The 4 pin connector cable is connected from the Space Heating Module itself and to The WaterHeater™.
	<b>8</b>	The cabin fan leads are connected to the 2 color coded leads in the zone board.
	<b>9</b>	The thermostat leads are connected to the 2 color coded leads on the zone board.
	<b>10</b>	Ensure that the domestic water side and the Space Heating Module have been filled only with water and propylene glycol/water mixture respectively. Ensure all trapped air has been bled. Do not use Marine/RV antifreeze.
	<b>11</b>	The Space Heating Module, cabin fans and The WaterHeater™ are connected according to ITR plumbing guidelines.

**Inspection Check sheet**

✓	Step	1. Before Start-up
	<b>12</b>	Circulation lines are properly insulated from cold and protected from solvents where necessary.
	<b>13</b>	The Space Heating Module/Expansion tank is at the highest point or there is a provision for the elimination of air from the system.
	<b>14</b>	The air source for the cabin fans must be supplied from living spaces or outside air only.

Comments: \_\_\_\_\_

\_\_\_\_\_

Inspection #1 completed by: \_\_\_\_\_  
Print name
Signature
Date

**2. Initial Start-up**

**! DANGER**

**Never**

- operate the pumps without fluid in the system
- mix propylene glycol antifreeze solution from the space heating circuit with the domestic water circuit.

✓	Step	2. Initial Start-up
	<b>15</b>	Turn on The WaterHeater™ at the remote panel and turn up the room thermostat. If the burner does not start, reset system by turning the remote switch off/on. When there is sufficient heat in The WaterHeater™, the cabin fans controlled by the Space Heating Module will activate.
	<b>16</b>	Ensure no leaks are present (check all hosing, connections, etc.).
	<b>17</b>	Ensure the expansion tank on the Space Heating Module is filled to line and top up as necessary with the designated 50/50 Propylene glycol/water solution.

Comments: \_\_\_\_\_

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\_\_\_\_\_

Inspection #2 completed by: \_\_\_\_\_  
Print name
Signature
Date

### 3. Normal Operation

✓	Step	3. Normal Operation
	<b>18</b>	Ensure the Space Heating Module continues to operate until the zone has reached set room temperature.
	<b>19</b>	Ensure the domestic hot water system operates effectively (turn on hot water tap; hot water should run continuously; 52°F (29°C) difference from ambient at 1.5 GPM; use thermocouple to test temperature). Note a cold system takes approximately three minutes to attain operating temperature.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Inspection #3 completed by: \_\_\_\_\_  
Print name
Signature
Date

### 4. Shutdown

✓	Step	4. Shutdown
	<b>20</b>	When The WaterHeater™ is running and is turned off at the remote indicator panel the heater should run through its two minute purge cycle.
	<b>21</b>	With all systems off and no call for heat, the system shuts down completely after purging (two minutes).
	<b>22</b>	Ensure the fluid levels are checked and topped up after cool-down.
	<b>23</b>	If the heater will not be operated in low temperature conditions, drain the domestic water system to avoid freezing.

Comments: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Inspection #4 completed by: \_\_\_\_\_

**Inspection Check sheet**

Print name

Signature

Date

**Space Heating Module Serial No.**

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**Type of Installation Marine or RV**

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**Cubic Volume of Heated Areas**

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**Owners Name / Address / Telephone Numbers**

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**Supervisor and final sign-off:**

Print name

Signature

Date

