

## #4167 Water Heater kit Assembly Instructions

### For use with models:

ATL-1000, ATL-1500

ATL-2, ATL-2 Plus, ATL-2000, ATL-2200, ATL-2300, ATL-2400, ATL-2500

ATL-3, ATL-3000

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### Items Needed to install the Water Heater Kit:

1x #4167 AutoLab Water Heater Kit (consisting of):

- #95369 Plumbing (temperature mixing valve pressure relief valve, temperature gauge, hoses)
- #4266 Spray Wand Accessory
- #65587 120V 2.5G ARISTON Water Heater

1x Phillips® Screwdriver

1x Thermometer graduated in 0.1°C

### Procedure:

1 Unpacking the Water Heater	
1.1	Locate the mounting plate inside the upper Styrofoam packaging. If you desire to wall mount the water heater, you will need this plate.  <b>NOTE:</b> See the ARISTON instruction sheet for wall mounting instructions.
1.2	 Locate the power switch on the front of the water heater (see image).  <b>Warning!</b> Make sure the water heater is switched OFF! The heating element will become damaged if the water heater is empty and is switched ON!
1.3	Remove the water heater from its packaging and place it on a stable surface.

1.4		Remove the two plastic caps from the two water pipe connections located on the top of the water heater (see image).
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**2 Unpacking the Plumbing**

2.1 Remove the plumbing from the box and GENTLY place it on a stable surface.

2.2 Locate four small plastic bags containing some hardware (compression fittings).

2.3 The brand name for the water heater is ARISTON. When using ARISTON water heaters use only the two plastic bags labeled 26509. Some other identifying markings are ½" and 10mm. You will not use the two bags labeled 26500.

2.4 Locate the #4167 Instruction Sheet included with the #95369 plumbing.

2.5		<p>Open the two bags labeled 26509 and install the ½" compression fittings onto the red and blue pipes of the plumbing (see image).</p> <p><b>NOTE:</b> Make sure you install the ½" compression fitting in the proper order as shown on both the 26509 bags and the #4167 Instruction Sheet pictures (nut then compression ring then metal washer then rubber washer).</p>
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2.6 Place the #95369 plumbing on top of the water heater (the compression fitting must be already installed on the plumbing). Make sure the red pipe is inserted into the red pipe connection on top of the water heater. Do the same for the blue pipe and blue pipe connection.

2.7 Tighten both the red and blue compression fittings.

**NOTE:** Make sure the plumbing is level to the top of the water heater.

**3 Connecting the Cold Water Supply**

3.1		Connect this hose to the blue colored cold water connection located on the #95369 plumbing (see Image 3.1).
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3.2 Connect the other end of this hose to your cold water supply.

3.3		<p>Adjacent to the blue colored water connection on the #95369 plumbing, you will observe an additional capped blue colored water connection (see image).</p> <ul style="list-style-type: none"> <li>• If you are using an ATL-1000 or an ATL-1500 processor, <u>do not remove this cap</u>.</li> <li>• If you are using an ATL-2, ATL-2 Plus, ATL-2000, ATL-3, ATL-3000, or any of the ATL-2X00 processors, then you must remove this cap and attach the cold water hose from your ATL processor to this water connection</li> </ul>
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	point.
3.4	Locate the pressure relief hose attached to the #95369 plumbing and make sure you place the hose in a sink or drain
<b>4 Installing the #4266 Spray Wand Accessory</b>	
4.1	Open the bag contained inside the #4266 box and sort all of the pieces.
4.2	Printed on the instruction sheet found inside the box, locate the diagram box labeled "A". The "A" shows how to mount the wall-mounting clip and the hardware needed to do so. You must decide where you want to hang the spray wand for convenient use.
4.3	Locate the "Y" plumbing adapter and a washer.
4.4	Insert the washer into the female end of the "Y".
4.5	 <p>Attach the "Y" to the red colored water connection on the #95369 plumbing. This connection point is the tempered water outlet of the temperature-mixing valve for the rinse water (see image).</p> <p><b>Warning!</b> Do not strip the threads of the "Y" adapter! Use care when attaching it so you do not cross-thread the "Y": adapter!</p>
4.6	 <p>Connect the tempered water supply hose from your ATL processor to the one of the male ends of the "Y" plumbing adapter (see image).</p>
4.7	Locate the spray wand and the other washer.
4.8	Insert the washer into the female end of the spray wand hose.
4.9	 <p>Connect the spray wand hose to the other male end of the "Y" plumbing adapter (see image).</p>
4.10	 <p>Locate and attach the spray wand rubber nozzle to the head of the spray wand handle. The nozzle provides a more even flow of water for filling bottles and tanks (see image).</p>
<b>5 Filling and Preparing the Water Heater</b>	
5.1	Turn on the cold water supply and allow the water heater to fill for approximately one minute.
5.2	Aim the spray wand into the water bath of the ATL or into a sink and spray it to purge the air out of the water heater. Keep the water streaming out of the spray wand until no more air is present in the stream.

5.3	Plug the water heater into a grounded GFCI ( <i>ground fault circuit interrupter</i> ) electrical outlet	
5.4		Switch the power switch located on the front of the water heater to the ON position (see image).
5.5	Adjust the thermostat dial so it is set between "warm" and "hot."	
5.6	Allow the water heater to heat for approximately 45 minutes.	
<b>6 Setting the Rinse-Water Temperature</b>		
6.1	<p>While the water is flowing, measure the rinse water temperature with a thermometer.</p> <p><b>NOTE:</b> For more precise temperature measurement, use the bottle temperature sensor from the chemical bottle (not possible with ATL-1000 or ATL-1500).</p>	
6.2		<p>Adjust the mixing valve to reach the correct rinse-water temperature.</p> <p><b>NOTE:</b> If you are unable to reach the desired temperature with the mixing valve, adjust the water heater thermostat dial (see image).</p> <p>When setting the rinse-water temperature, use the following tolerances</p> <ul style="list-style-type: none"> <li>• E-6 <math>\pm 2.0^{\circ}\text{C}</math></li> <li>• C-41 <math>\pm 5.0^{\circ}\text{C}</math></li> <li>• RA-4 <math>\pm 5.0^{\circ}\text{C}</math></li> </ul> <p>For other processes, use chemical manufacturers recommendations.</p>
6.3		Check the temperature of the rinse-water using the temperature dial periodically (see image).