

BTC-W water cooling unit instructions.

IMPORTANT: it might take a few minutes to fill the unit with water before it starts flowing out of the pump.

1. Connect 1/8in I.D. soft tubing to the INPUT of BTC-W unit. Put the other end of this tubing into a container with water.
2. Connect the OUTLET from the pump of BTC-W unit to one of ports on the heat sink of BTC-S Peltier stages.
3. The other port of BTC-S stage should be connected to another piece of tubing, the free end of which is to be inserted to the same container filled with water. If the stage has two heat sinks, they should be connected in sequence (or two BTC-W units should be used – one for each heat sink).
4. Start BTC-W unit by switching the power ON, and wait until water starts flowing out of the BTC-W unit.
5. After all pieces of tubing are filled with water, stop BTC-W unit, and connect the free ends of tubing together to provide a closed loop for water circulation (this step is optional).

The above instructions are for temperatures above 0 C only. If lower temperatures (< -0.5 C, freezing) are required, a container with ICE WATER should be used:

1. Fill a container with ICE CUBES and add water to cover the cubes. Connect soft tubing to one of the ports of BTC-S cooling stage. The other end of this tubing should be inserted inside the container with ICE water.
2. The other port of BTC-S stage should be connected to the INPUT of BTC-W unit. If the stage has two heat sinks, they should be connected in sequence.
3. The OUTLET of the pump of BTC-W unit should be connected to another piece of soft tubing, the free end of which is to be inserted into the container with ICE water.
4. As long as the container with ICE cubes is filled with water, this configuration will provide a closed loop for water circulation through the sinks of Peltier cooling stages BTC-S.

