

The mixing valve controls water temperature by adding cold water to the hot water. What it can't control is the temperature of the cold water being added, so if you are adding cold water from the fresh tank the temperatures could be anywhere from 70 degrees to 85 degrees depending on the day time temperature as the cold water temperatures will take a lot more volume to bring the hot water temperature down to where it needs to be.

Let's say the next time an individual goes camping and they use the city water hookup, and now the cold water temperature can be anywhere from 50 to 65 degrees, which will take a lot less cold water to bring the hot water temperature down, but the last time they camped they had the mixing valve set to add a higher volume of cold water. Since they were using warmer cold water previously, the valve will still be adding the same volume of "previously asked for" cold water at a much colder temperature which in turn will put out more "colder" hot water temperature and it may not even be hot anymore with even having the valve set all the way to the positive side which should provide warmer temperatures.

We just discovered the fix for this about two weeks ago due to the fact that our supplier wasn't sending along instruction for the mixing valve, if they are only getting about 5 seconds of hot water and then the water gets cold, and they have the mixing valve set all the way to the plus sign on the adjusting knob and the water is still cold, follow the instructions in the attached word doc on how to increase the water temperature if it's still cold.

Currently the way the mixing valve is setup they can't completely shut off the cold water being added, in other words one might think that if the adjustment knob is turn all the way to the (+) side it wouldn't be adding cold water when in fact it's still allowing cold water to be added.

So if someone isn't getting hot water, but the Alde heater is working and providing heat for the trailer there are two possible reasons for that, either they didn't bleed the air out of the system properly or the mixing valve needs to be adjusted, first they should check the setting on the valve and turn it towards the (+) side of the valve and this will increase the hot water temperature. Finally, if they have adjusted it as far as the knob will allow and still have cold water, they can follow the instructions in the document to further increase the maximum water temperature setting.

LK 550 Mixing Valve

Technical Data

Working temperature	Min. +5° C/Max. +90° C (Min. 41° F/Max. 194° F)
Operating temperature	Min. +38° C/Max. +65° C (Min. 100.4° F/Max. 149° F)
Max. working temperature	1.0 MPa (10 bar)
Material, valve body	DZR Brass EN 12165 CW602N
Material, sealings	EPDM

LK 550 is a mixing valve for water heating with a thermostatic element that regulates the supply of cold water in order to achieve the desired temperature. Valves with male thread G ½" and 15mm compression fitting have an airvent for simple draining of smaller water heaters.

Arrows on the body valve indicate the direction of the flow:

- **KV** = incoming cold water
- **VV** = incoming hot water
- **BV** = outgoing warm water

When fitting to a male thread connection adapter LK 373 is used – see under Accessories.

The valve knob is used to set the desired warm water temperature within the range of 38° C to 65° C (100.4° F to 149° F). The maximum temperature can be calibrated as follows:

Increasing the Maximum Temperature:

Turn the knob anticlockwise to (+). Loosen the screw and move the knob out to the side. Then turn the knob clockwise to (-) without it being engaged. Adjustments are carried out in small steps. A ¼ turn corresponds to approximately 7° C (44.6° F). Reinstall the knob and check that it engages with the teeth. Tighten the screw and then turn the knob to max (+). Max. calibration for increasing the temperature is a ½ turn.

Reducing the Maximum Temperature:

Do the procedure in reverse. Turn the knob clockwise to (-) and the disengaged knob anticlockwise to (+).

