

Are you using an air conditioner?

Much like an air conditioner is used to keep us cool, your laser tube or source also needs to be kept (relatively) cool to keep performing. Our HQ and other larger lasers come with a CW5000 or CW5200 (or a CW6000 for our really big machines) "Industrial Chiller". Our fiber cutters also have much bigger chillers.

While the CW3000 is labelled as an "Industrial Chiller", it is really not much more than a cooler with no refrigeration unit, so it will not be discussed here.

The CW refrigerated range comes factory set at what they call "Intelligent Mode". What this means is that it measures the outside temperature, and sets itself to 2 degrees lower as default.

Not very efficient in summer in South Africa. Your tube prefers to be kept at a comfortable 22-26 degrees to work well.

So, how to set the chiller to Constant Mode? Relatively simple.

The switches on the right of the panel have different functions : RST and the ▲ (Up arrow), and SET and the ▼ (Down Arrow).

First, press ▲ and SET simultaneously and hold for about 5 seconds. You will see 0 in the display. Press ▲ until you get to 8. This is the password ... then press SET. The display should change to F0. Press SET and the display will show 25.0 (default setting). Press ▼ until the display shows 22.0.

Press SET, and then ▲ until the display shows F3. Press SET and the display should change to 1. Using the ▼ key, press once to change to 0.

Press SET, and then RST. The D1 light should be off, and the compressor in the chiller will switch on to bring the temperature down to 22 degrees.

Your tube will thank you!



The default control panel showing that D1 is on, meaning it is in "Intelligent Control Mode".



After changing the temperature setting to 22 degrees.



And after changing the mode to constant mode. The temperature will reduce to 22 degrees.

