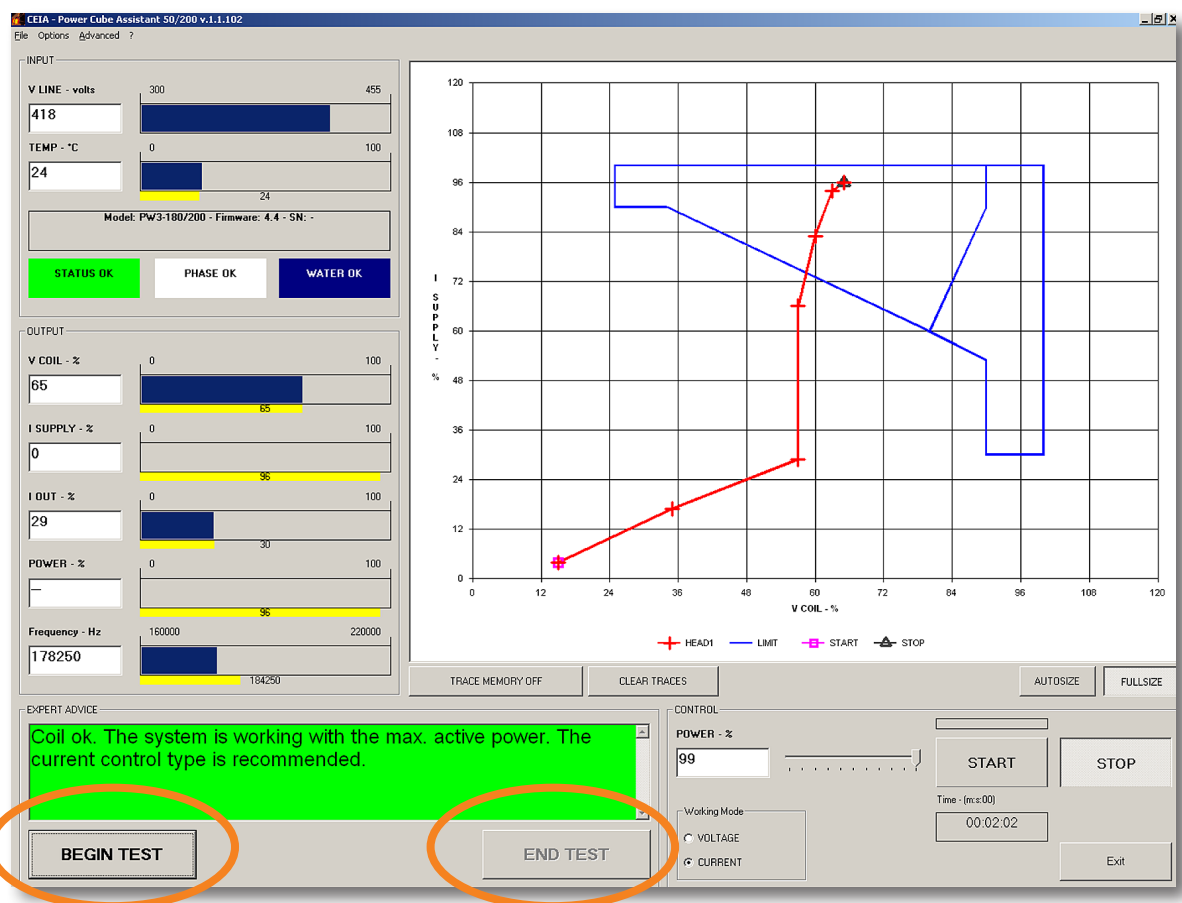


## Power Cube Assistant

THE SOFTWARE POWER CUBE ASSISTANT IS A DEVICE PROVIDING USEFUL ADVICE FOR COIL OPTIMISATION

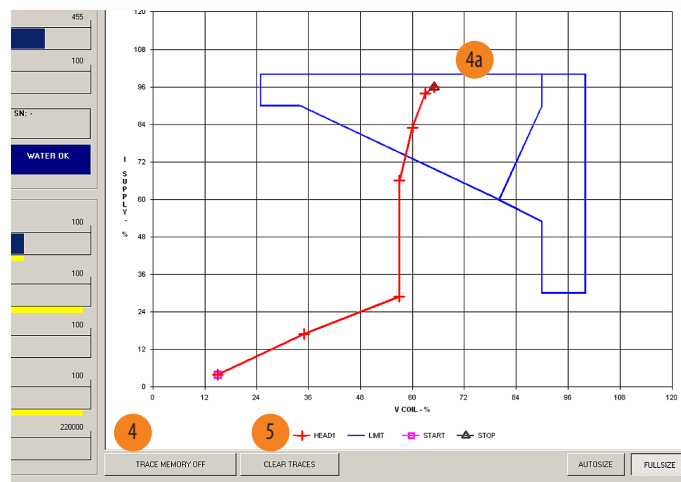
- Before starting the program, ensure that the RS-232 PC serial port is connected to the Power cube by means of one of the following cables:
  - > 1) SERIAL CABLE 1m (code 19623)
  - > 2) SERIAL CABLE 3m (code 23243)
- To start the program, double click on the icon with the left button of the mouse
- Place the piece to be heated inside the coil
- Press the BEGIN TEST button first and then the END TEST button



- 1 **INPUT:** indication of the Power Cube input values.
  - **V Line:** input voltage
  - **TEMP:** cooling water temperature
- 2 **OUTPUT:** Indication of the Power Cube output values
  - **V COIL:** coil voltage
  - **I SUPPLY:** supply current
  - **I OUT:** output current
  - **POWER:** power
  - **Frequency:** working frequency
- 3 **EXPERT ADVICE:** Assessment of the working cycle state from the beginning 3a to the end 3b of the test

The screenshot displays the main control interface. On the left, there are sections for 'INPUT' (V LINE, TEMP), 'OUTPUT' (V COIL, I SUPPLY, I OUT, POWER, Frequency), and 'EXPERT ADVICE'. The 'EXPERT ADVICE' section shows a green message: 'Coil ok. The system is working with the max. active power. The current control type is recommended.' Below this are 'BEGIN TEST' (3a) and 'END TEST' (3b) buttons. On the right, a graph shows 'I SUPPLY - %' vs 'V COIL - %' with a red trace starting at 12% V COIL and 0% I SUPPLY, rising to 30% I SUPPLY at 30% V COIL, then jumping to 96% I SUPPLY at 60% V COIL, and finally jumping to 96% I SUPPLY at 96% V COIL. A blue 'LIMIT' line is also visible.

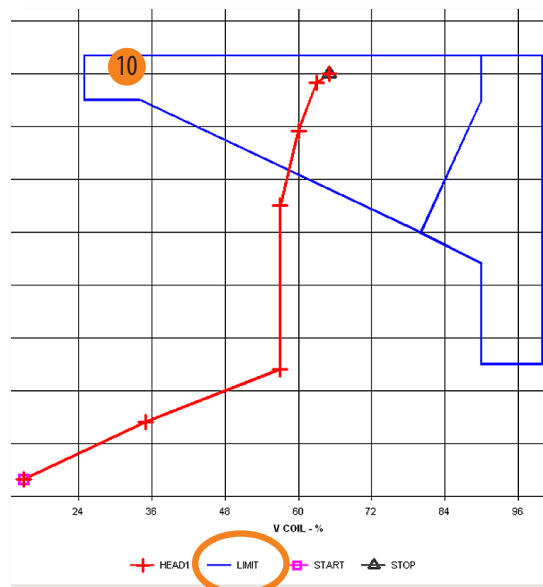
- 4 The trace persistence on the diagram is activated by pressing the **TRACE MEMORY ON/OFF** button 4a
- 5 The trace previously imprinted is deleted by pressing the **CLEAR TRACES** button



- 6 **POWER - %:** modifies the value of the set power
- 7 **START:** start of Head heating
- 8 **STOP:** end of Head heating
- 9 Head **ON** indicator

The screenshot shows the 'CONTROL' panel. It includes a 'POWER - %' slider set to 99 (6), 'START' (7) and 'STOP' (8) buttons, and a 'HEAD ON' indicator (9). Below these are 'WORKING TIME - h' (000516) and 'HEATING TIME - h' (000022) displays. There is also an 'Exit' button.

- 10 **LIMIT:** optimal working area that can be achieved following the expert's advice 3



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