

### FX 3300-IV: Bypassing the vacuum pump for better cooling

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**Problem:** During heavy use, the pump may turn off and the display shows as a result "0.00". This happens usually in range 1 and 2.

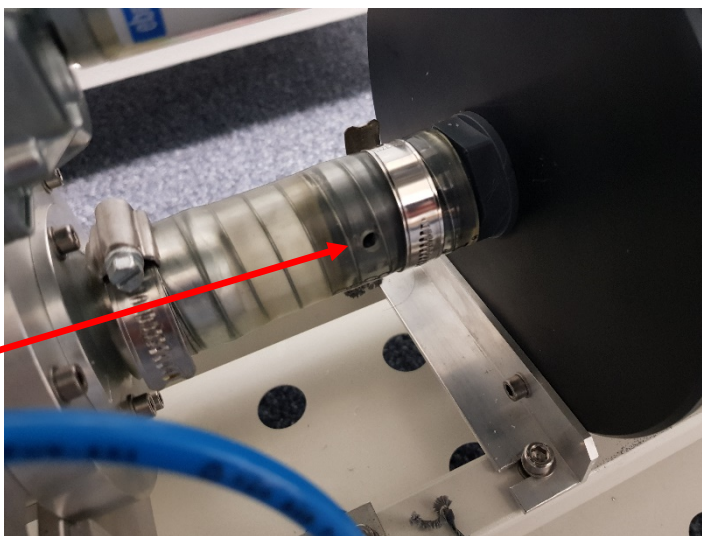
**Cause:** The pump overheats and the thermal protective switch temporarily deactivates the pump. After some recovery time, the instrument works again normally.

**Solution:** Drill 2 bypass holes. The results will not be affected as long as a test pressure is between 20 Pa and 500 Pa.

This is how you can fix this problem:

1. Disconnect the instrument from power line.
2. Remove both rear right and left side panels.
3. Locate the inlet of the pump
4. Drill the bypass holes, one on the left and one on the right side as shown on the pictures.

1 hole of  
diameter  
approx. 6mm



1 hole of  
diameter  
approx. 6mm

