

Pic. 15

Vacuum Indication

Testo 550 is capable of gross vacuum indication. The measurement is performed on the low-pressure side.

1. Follow the steps 2-4 described in leak test.
2. Press the [Mode] button twice to get to the vacuum indication menu (Pic. 15).
3. Start the evacuation.
4. The 550 will indicate the vacuum on the low-pressure side.

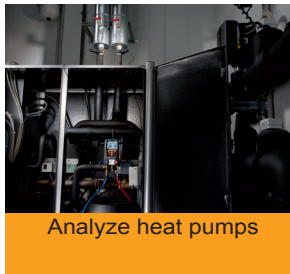
Remember, vacuum indication is performed in **inHg**. The testo 550 does not have the resolution to read microns and a separate vacuum gauge is recommended for vacuum measurement.
 1 inHg = 25,400 microns

Warranty

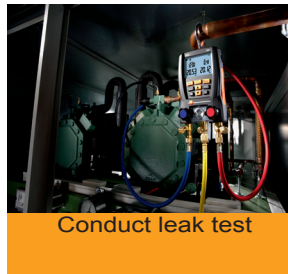
The testo 550 has a 2 year warranty.



Analyze refrigeration systems

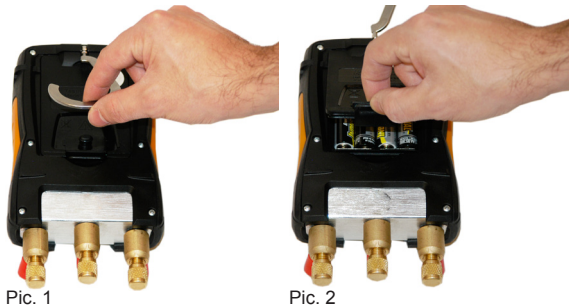


Analyze heat pumps



Conduct leak test





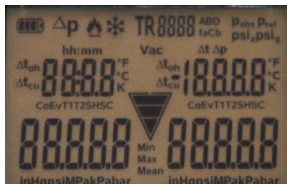
Pic. 1

Pic. 2

Changing the Batteries

Testo 550 uses 4x 1.5 V, AA batteries. To replace the batteries please follow these few steps below:

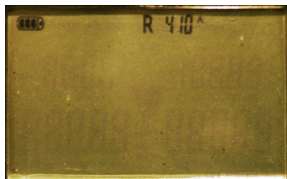
1. Fold out the hook (Pic. 1).
2. Grab the clip and squeeze it together and remove the cap (Pic. 2).
3. Insert/Change the batteries. Observe the polarity.



Pic. 3

Power On/Off

1. Connect probes to the testo 550 prior to powering it up.
2. Press the power button [⏻] to turn testo 550 on.
- All display segments are lit (2 s.) (Pic. 3)
3. Measurement view is displayed
4. Press the power button to turn the testo 550 off.



Pic. 4

Set the Refrigerant

1. Press the [R, Start/Stop] button so you can choose the required refrigerant (Pic. 4).
2. Use the arrow keys [▲, ▼] to scroll through the choices.
3. Press the [R, Start/Stop] button to set the chosen refrigerant.



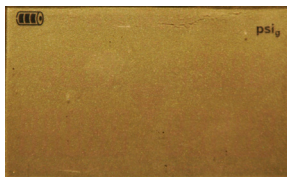
Pic. 5



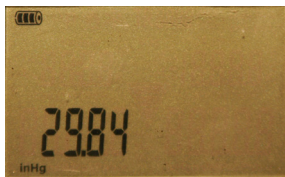
Pic. 6

Set the Units/Altitude/Mode

1. Press the [Set] button once to get to temperature units menu (Pic. 5).
- Choose the required units with the arrow keys [▲, ▼].
2. Press the [Set] button for the second time to be able to choose the pressure units (Pic. 6).
- Choose the desired units with the arrow keys.
3. Press the [Set] button for the third time so you select absolute or relative pressure (Pic. 7).
4. Press the [Set] button four times, so you can set the barometric pressure in inHg (Pic. 8).
5. Press the [Set] button five times to select the measurement mode.
6. Press the [Set] button six times to exit the [Set]-menu.



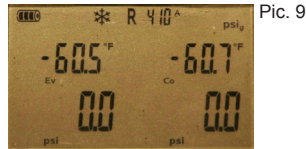
Pic. 7



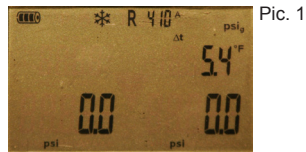
Pic. 8

Backlight

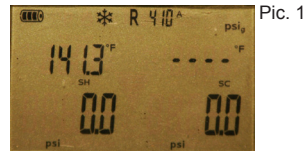
testo 550 has a backlight for use in a dark environment. Press the backlight [*] button to turn the backlight on. Press it once again to turn the backlight off.



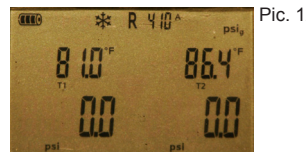
Pic. 9



Pic. 10



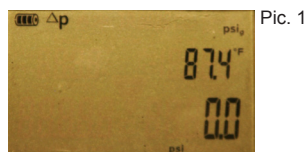
Pic. 11



Pic. 12



Pic. 13



Pic. 14

Pressure zeroing

Please zero the pressure sensors before every use of the testo 550.

1. loosen the hose connections
2. close the pressure valves
3. press the [p=0] button

The sensors are now zeroed and ready for measurement.

Superheat/Subcooling

The testo 550 is capable of calculating superheat and subcooling in real time.

1. Connect the temperature probes to testo 550.
2. Connect testo 550 and the probes to the refrigerant plant or heat pump.
3. Switch on testo 550.
4. You will now see the calculated evaporation and condensation temperature (Ev and Co) (Pic. 9).
4. Press the UP-arrow [▲] once to see the temperature difference (Δt) (Pic. 10).
4. Press the UP-arrow [▲] for twice to see the real time superheating and subcooling (SH and SC) (Pic. 11).
5. Press the UP-arrow [▲] for the third time to see the real time measured temperature (T1 and T2) (Pic. 12).
6. Press the UP-arrow again to get to back to the calculated evaporation and condensation temperature. You can also use the DOWN-arrow to switch between the menus but the order will be inverted.

Leak test

The temperature compensated leak test is used to indicate leaks in a refrigeration or heat pump system.

1. Plug in the temperature probe into the high side of the instrument.
2. Turn testo 550 on.
3. Zero the pressure sensors.
4. Connect testo 550 to the system.
5. Press the [Mode] button once to get to the leak test mode (Pic. 13).
6. Now press the [R, Start/Stop] button to start the test.
7. Press arrow keys [▲, ▼] to see the measured temperature (Pic. 14).
8. The test duration depends on the system size.
9. Press [R, Start/Stop] again to stop the test.
10. The results will be displayed.
11. Press the [Mode] button twice to return to the normal measurement mode.

Note: ΔP could be different from starting and final test pressure ΔP as the true Δp is calculated from the gas laws.