Determination of the air density is carried out with use of a set comprising two mass standards, where one of them is made of stainless steel, and the other of aluminum. Weighing and comparing mass indications of the two standards enables automatic calculating the density of air. As the user accepts both mass indications, the software automatically calculates the correction value which is then stored in balance’s memory. Then, the density value of weighed sample should be entered to balance’s memory.

On entering the upper mentioned values to software memory, it automatically calculates the corrective factor for weighed mass, and indicates corrected value of sample mass on balance’s display.

As in previous case, and in order to avoid any confusion, the value of corrected mass indication is marked with a special symbol visible on balance’s display, and on a printout.

The procedure of air buoyancy correction can be switched on and off from the user menu level. The application operates along with other balance’s working modes (checkweighing, filling, etc.).

Reliability of measurements is conditioned by knowledge of several parameters, including: ambient conditions at the workstation, measurement methods, characteristics of tested material, air density in a laboratory room and finally density of tested material.