

ZB-REV2.0 AUTOSAMPLER

The ZB-REV2.0 autosampler is a consequent further development of the "Zero-Blank-Revolver" autosampler from Blisotec GmbH, which is now a part of AIL Technologies GmbH.



Our ZB-REV2.0 autosampler features an extreme sealing surface (70 mm) and a separate purging chamber. Thus, samples are already transferred into this purging chamber before the measurement and continuously purged with helium over the period of the preceding measurement. Due to the large sealing surface of the rotary turret (approx. 70 mm) and these additional purging, a **ZERO blank measurement** can be ensured without restricting the operating comfort.

Variants of our autosampler with 80 and 120 specimen positions are available. The 80-sample version has sample chambers with a diameter of 12 mm. In the 120-sample version, the sample chambers have a diameter of 8 mm.

Upon customer request, the number of samples can be offered up to 180 positions with a sample chamber diameter of 5 mm.

TECHNICAL DATA

Electrical connections

1x power supply 230V (included in delivery)
1x standard signal cable (included in delivery)

Standard analysis connection:

Eurovector 3000

Medium connections:

1x Purge (capillary 1/16") for purge of the samples 1x Carrier (capillary 1/16") Carrier gas for analysis systems

Dimensions:

[420 x 345 x 160] mm Weight: 10 kg

Cooperation:

Developed and tested in cooperation with the accredited stable isotope laboratory Agroisolab





The integrated stepper motor allows easy changing of the sample plate and thus offers a flexible solution to adjust sample sizes.

Due to the special connection adapter, the ZB-REV2.0 can be easily combined with almost any Element-Analyzer. Thus, the Adapter is adapted for each system free of charge.

The electrical control of the ZB-REV2 is done via a normally open contact isolated by optocoupler. Adaptation to devices with different voltage levels is possible at any time. These customer-specific adaptations are also carried out free of charge.

With the ZB-REV2.0, the actuator electronics are now fully integrated in the autosampler. All connections required for operation of the device are located on the autosampler in a user-friendly manner.

Finally, the maintenance of the autosampler has been greatly simplified and now only requires the loosening of 4 screws / nuts and the replacement of the sealing plate.

NEW!

A controlled temperature control unit for the small volume chamber will be optionally available for the ZB-REV2.0 from the 4th quarter of 2022. This effectively frees the samples from possible residual moisture. This provides a significant advantage, especially for high-temperature pyrolysis and the measurement of oxygen and hydrogen or their stable isotopes, $\delta 180$ and $\delta 2H$.

Thus, many organic compounds already draw residual moisture from the atmospheric air during weighing. Therefore, further drying before pyrolysis is almost mandatory.

AIL Technologies GmbH

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