



DRYING UNIT FOR GLASS BOTTLES

Drying solution for glass beer bottles

The challenge

Our customer is a well-known brewer of several regional Flemish beers. The company was already in possession of a drying installation supplied by Almeco to dry glass beer bottles, but additional drying power was required due to an expansion of their product range.

The solution was needed because the brewer released a new product on the market in the shape of bottles with a no-label look. This is a transparent label that appears to be printed directly on the bottle, but is in fact an ultra-thin film that gives the product a luxurious appearance.

In order to achieve the best results with this technique, it is necessary that the condensation formed on the bottles during the production process is removed for almost 100%. This is important to ensure that the thin film will stick to the bottle and will not shift. Ronair designed a second custom-made drying installation which was placed in the same line with the dryer that was already in use.



The solution

The Ronair solution includes a drying module with acoustic enclosure and baffles for noise reduction. Next to this, a second module consists of a blower and an electrical cabinet that controls both the new and existing installation.



With the commissioning of this second dryer, the customer chose for a structurally optimized solution for both the standard bottles in different sizes and het bottles equipped with a no-label look.

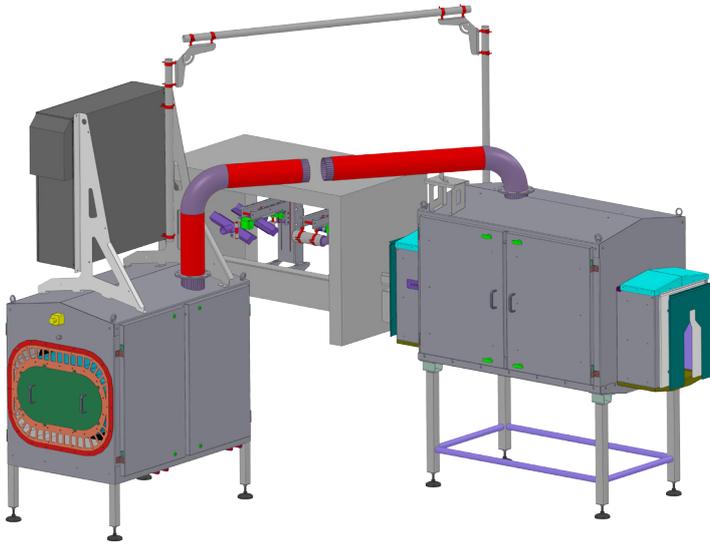
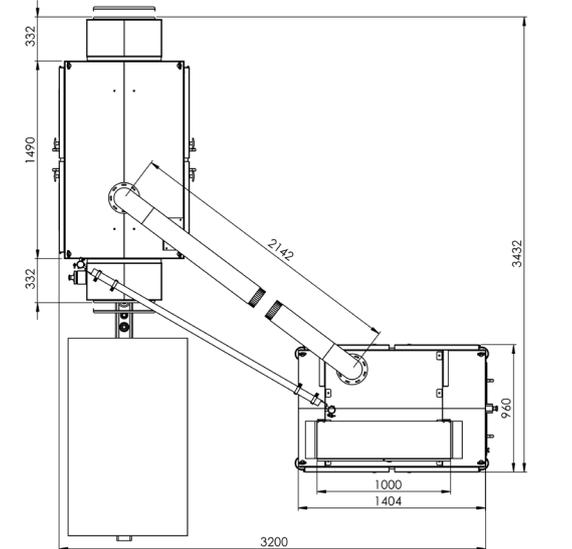
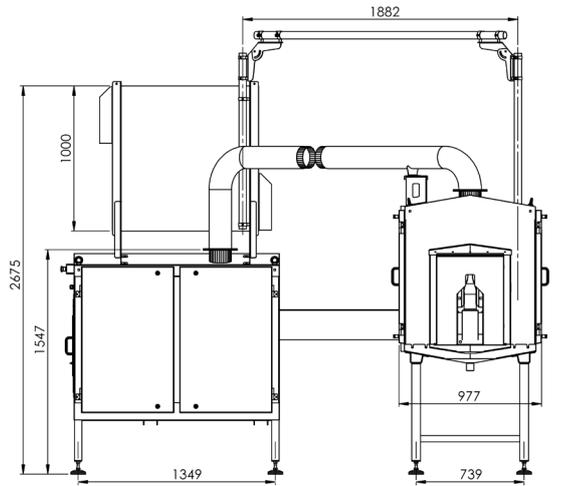
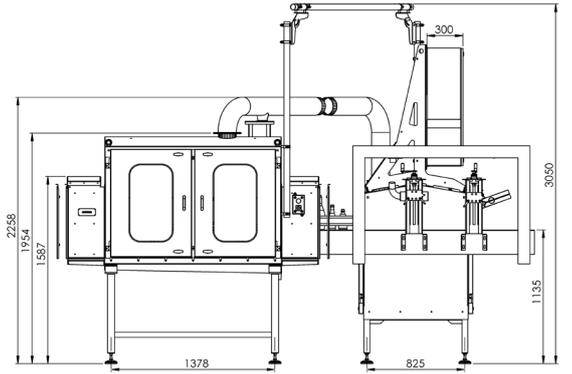
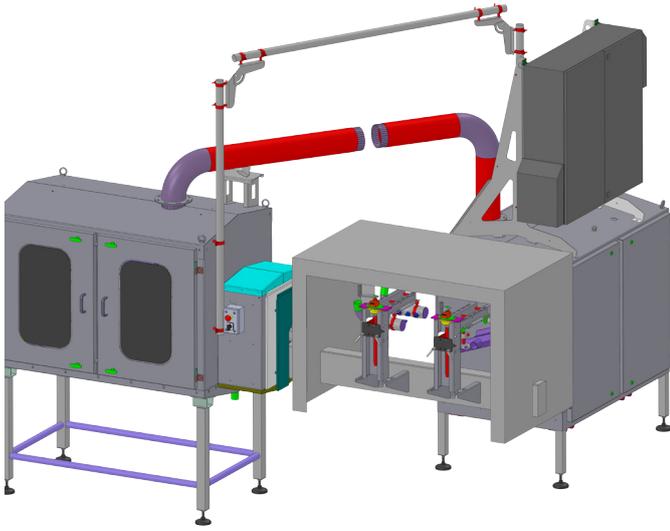
We transformed the first installation into a dryer of the cap and the neck of the bottles. These parts are dried with nozzles and two air knives. The new dryer is mainly used to blow off the sides of the bottles by using jetplates. This drying system has the additional advantage that the bottles are clamped between the plates and thus remain stable on the production line when they go through the installation.

Depending on the size of the bottles and the labeling mechanism, the customer can now choose for a different arrangement. An electrical module with various settings will determine, based on the product, which installation(s) must be active at the same time for optimal drying power and efficiency.

Test results

Various test results show that up to 99% of the water on the glass beer bottles is removed with the Ronair drying system.

Technical specifications



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