

TURBOCOOLER MOISTURE BOOSTER



Installation at ENOD, Argentina

The higher the temperature difference, the higher will be the conditioning result. Obviously, higher steam temperatures will deliver a higher condensation.

New WELKER TURBOCOOLER boosts moisture in warm ambients.

However, there is a limitation for the steam temperature, as the yarn has to cool down after the process and there will be to high water losses if the temperature is too high. Waxed yarns are conditioned at temperatures **between 52 - 60°C**, due to the wax melting points.

In countries with subtropical and tropical temperatures, the yarn temperature often is much higher than 25°C because there is no air conditioning in the spinning mills.

Often temperatures of 35°C or higher are reached. In such ambient the conditioning results drop dramatically reaching figures **of 1,2 – 1,5% moisture gain only.**

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The results are astonishing and all levels never achieved by a conditioning system. WELKER provides a true revolution in the conditioning technology which was patented in 2002.

The TURBOCOOLER is a fully automatic, adjustable cooling chamber with air turbo units that cool the bobbins down, either on a pallet or on a pin truck.

The system is designed to use the existing air in the chamber and forcing an air stream through a high performance turbo unit. The turbo is cooled by air from outside.

INLINE Automatic System:

The most efficient utilisation of the TURBOCOOLER is in an „inline“ fully automatic system, where pallets are transported from one station to the next.

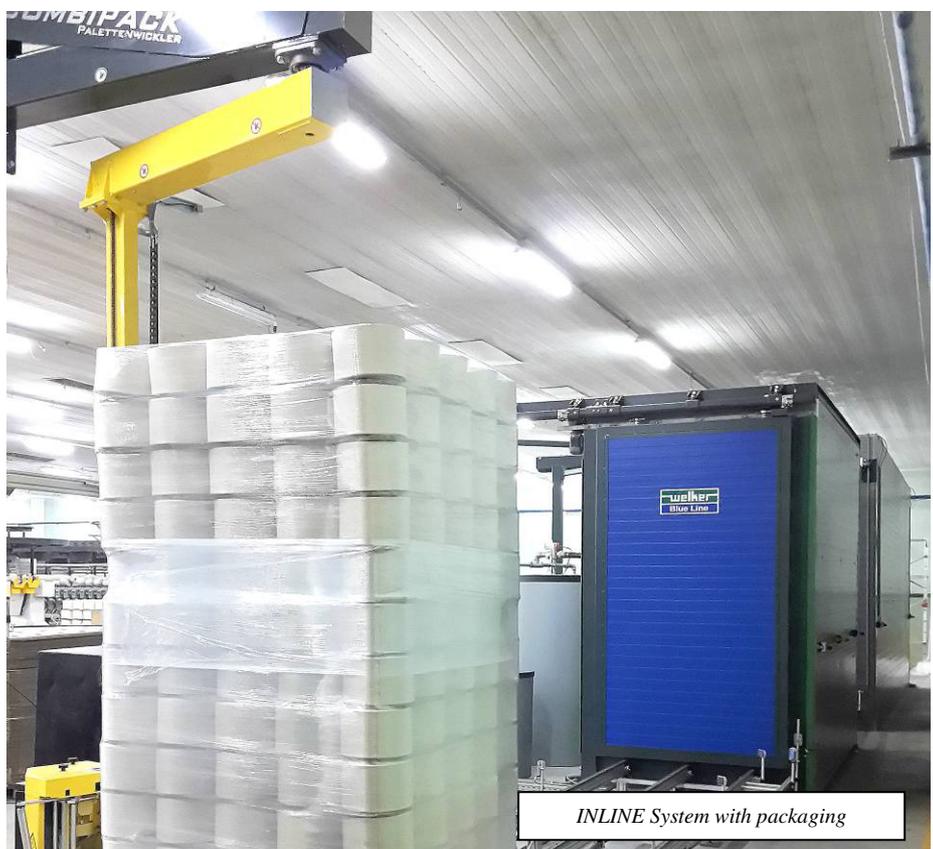
In combination with PACKTRACK automatic weighing, ticketing and wrapping of pallets, WELKER conditioning lines are the most advanced installations for export production at high moisture and therefore, quality levels.

OFFLINE Standard Versions:

Manual loading or automatic platform type of chamber, to feed all existing types of cylindrical machines, for pin trucks, pallets and boxes. With these solutions, loading and unloading has to be done manually.



Installation at SOGETISS, Morocco



INLINE System with packaging