

The new X Dryer introduced by **Moretto** (11-A20/B19) is claimed to be able to transform the same concept of dehumidification. Through the simple touch screen with graphical interface, the parameters to set are only two: material to treat and hourly throughput. The dryer

automatically controls and manages a number of parameters for a correct and precise polymer treatment, respecting: hourly volume of technological air, relationship m^3 /throughput in kg, process-safety-antistress temperature, drying time, overtime process. The unit supplies dry air at a much lower cost compared to any other dehumidifying dryer. Yet, the reduction of costs is the result of the simultaneous management of process variables, since what is needed is given by the real conditions of use.

As X Dryer works according to the real needs and thanks to the energy savings it guarantees, it is possible to reduce the cost of 1 kg of dehumidified material up to 72%, in comparison with other conventional drying systems, such as carousels, double-towers or in vacuum. Further savings derive from the absence of overtime treatment that causes significant viscosity variations and subsequent implications in the processing phases. Until today, overtime treatment has been highly underestimated or poorly handled, this resulting in energy consumption and spoiling of the end-product.

X Dryer works at its best when equipped with Flowmatik, a system that adjusts the flow of technological air, detecting the process data with a series of sensors and intercepting the real production requirements. The unit is equipped with an anti-stress mechanism that protects the granules from overdrying. Flowmatik and X Dryer become, thus, a flexible dehumidification system, able to adapt its production capacity to the actual working conditions. Energy savings are considerable in such a manifold system and, when the negative effects of overtime treatment are added to this, the difference between traditional methods and this system become measureless. Flowmarik has been designed for multi-hopper systems and is able to manage up to 16 hoppers simultaneously, even though it can be installed on single-hopper dryers too.
