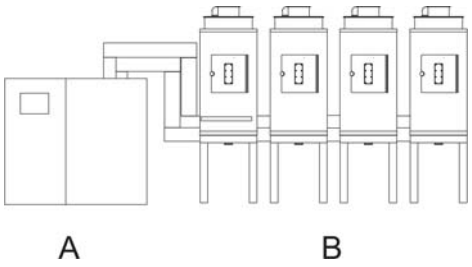
Typical application of a dry air drying system.

A Drying hopper
B Dry Air Dryer

Component B is described below.



Brief Description

Application
For the drying of thermoplastic granules and regrind, independent of climate or ambient air conditions, before processing to remove all remaining moisture from the granules both inside and out.

- Colortronic drying systems are designed for continuous, 24 hour operation.
- Colortronic drying systems meet all CE requirements

Rugged, modular construction

Dry-Flex dehumidified air dryers are modular and extremely flexible systems that can be individually adapted to meet all requirements. The dry air capacity can be adapted from 60 to 600 cfm (100 to 1000 m^3/h). The dryers can be easily upgraded and their air capacity can be increased as production requirements increase.

Colortronic dry air dryers operate on the principle of absorption. Under this principle, the air is not heated, rather the moisture is absorbed and removed from it inside the drying hopper. Through this technology plastic granules can be dried to extremely low residual moisture levels (i.e. 0.002% with PET). Colortronic dry air dryers have 2 drying cells which continuously maintain a dew point level of down to -76° F (-60° C). Because our air flow is constant, we maintain zero temperature change during the drying process.

Technical Information

Basic Version

- Standard Control
  - S7 PLC
  - Dry contact alarm output
- Maintenance free pneumatic air valves
- Automatic alarm clock or timer
- Safety temperature limiter for all heaters
- Decentralized temperature controls

Performance

- Max. air drying capacity 60 cfm / 600 cfm (100 m^3/h / 1000 m^3/h)
- Operates with 400 V +/-10%, 3 AC, 50 Hz voltage
- Average dewpoint temperature of - 76° F (-60° C)

Optional Equipment

- Dew point dependent regeneration switch with selectable dew point for process control with dew point display
- Return air cooler for processing temperatures above 250° F (120 ° C)
- Pre-air filter
- Condensation collection chamber
- Dwell-time monitoring at the drying hopper
- Special voltage
- Comfort control
  - S7 PLC control
  - Touch screen display for centralized monitoring and controlling of the dryer functions
  - Dry contact alarm output
  - Optional blower control for regulated dry air quantity
  - Optional metered flapper control for automatic air distribution with Fuzzy Logic
  - Optional throughput control for drying hoppers (in conjunction with a Colortronic conveying system)
  - Optional communication interface

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