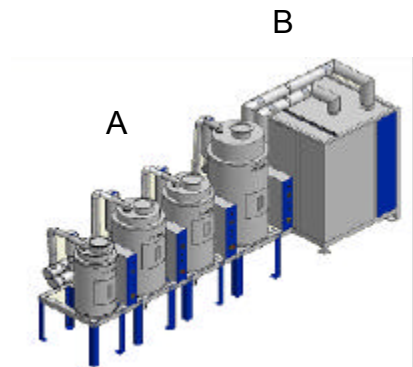


Typical application of a dry air drying system.

- A Drying hopper
- B Dry Air Dryer

Component B is described below.



## Brief Description

### Application

For the drying of thermoplastic granules and re-grind, 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 250 to 500 m<sup>3</sup>. 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 -60° C. Because our air flow is constant, we maintain zero temperature change during the drying process.



**Technical Information**

**Basic Version**

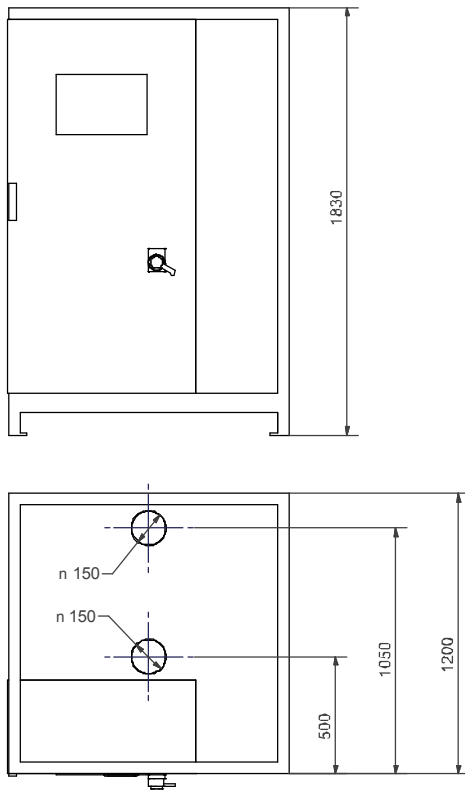
- Standard control
  - S7 PLC control
  - dry contact alarm output
- Maintenance free pneumatic air valves
- Automatic alarm clock or timer
- Safety temperature limiter for all heaters
- Decentralized temperature controls

**Performance**

- Max. air drying capacity 250 m³/h / 400 m³/h / 500 m³/h
- Operates with 400 V +/-10 %, 3 AC, 50 Hz voltage
- max. 12 / 20 kW connected load
  - + max. 24 / 36 kW hopper heatings
- Average dewpoint temperature of -50° C (- 76 °F)

**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 120° C (250° F)
- 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 Logik
  - Optional throughput control for drying hoppers (in conjunction with a Colortronic conveying system)
  - Optional communication interface



	Drying temp. °C	Dwell time h	m³/h			
			250	400	500	
ABS	80	3	175	210	350	
ASA	100	3	167	217	334	
CA	60	2-3	100	160	200	
CP	75	2-3	100	160	200	
EVA	80	2-3	96	154	192	
Ionomere	90	3,5	100	160	200	
PA 11	2	75	4-6	108	174	216
PA 12	2	75	4-6	108	174	216
PA 6	2	80	4-6	112	180	224
PA 6.6	2	80	4-6	120	194	240
PA 6.6 GF 35	2	80	4-6	158	254	316
PBT	130	3-4	150	240	300	
PC	120	2-4	188	300	376	
PE filled	85	3	117	187	234	
PE	90	2	234	374	468	
PEEK	150	4	125	210	250	
PEI	150	4	154	214	268	
PES	150	4	117	187	234	
PETP	130	3-4	142	226	284	
PETP	150 - 200	6	117	187	234	
PETG	85	4	125	210	250	
PMMA	80	4	150	240	300	
POM	100	3	150	240	300	
PP	90	2	250	410	500	
PPO	100	2,5	158	254	316	
PPS	140	3	158	254	316	
PE	90	2	202	467	584	
PCU	160	3	176	280	350	
PUR	80	3	167	267	334	
PVC	70	1-2	217	347	434	
SAN	80	2-3	175	280	350	
SB	80	2	167	267	334	
TPE	110	3	125	210	250	
TPU	80	3	133	214	266	

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