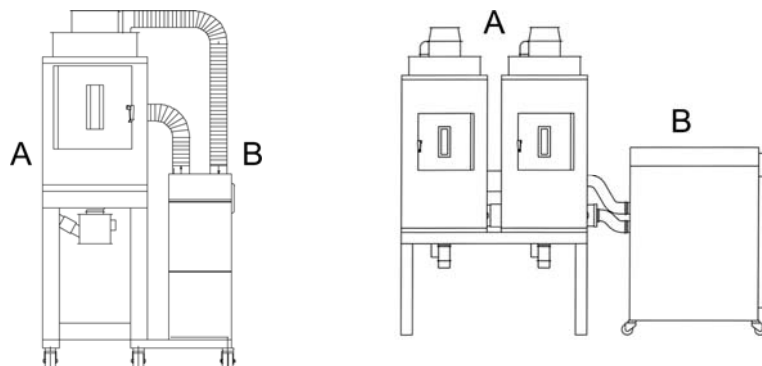


Typical application of a dry air drying system.

- 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

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 CTT 40/70 (pictured on right) and CTT 110/160 (pictured on left) dry air dryers have 2 drying cells which continuously maintain a dew point level of up to -60° F (-51° C). Because our air flow is constant, we maintain zero temperature change during the drying process.

Colortronic dry air dryers are virtually maintenance free. Only the air filters require routine cleaning or change out.





Technical Information

Basic Version

- Central temperature controls for all heating elements to ensure constant temperature levels
- Safety temperature limiter for all heaters
- Dry contact alarm output
- 2 drying cells for continuous operation
- Optical alarm indication
- Maintenance free air valves

Optional Equipment

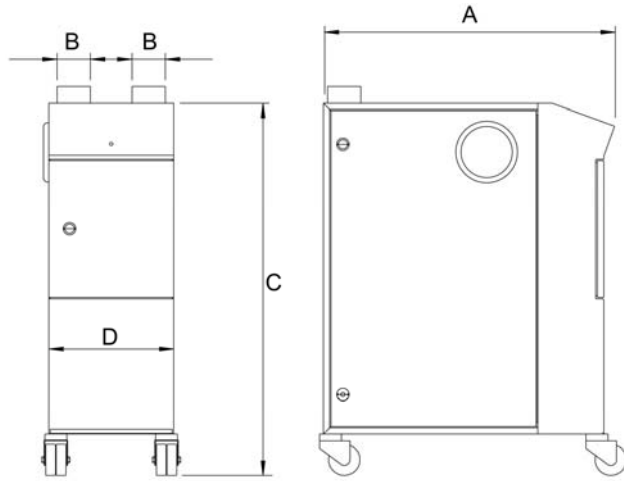
- Dew point display
- Return air cooler for processing high temperatures
- Pre-air filter
- Special color
- Special voltage
- 7 day timer

Performance

- Air drying capacity:
 CTT 40: 24 cfm (40 m³/h)
 CTT 70: 25 cm (40 m³/h)
 CTT 110: 65 cfm (110 m³/h)
 CTT 160: 94 cfm (160 m³/h)
- Operating voltage (pther voltages available – consult factory) :
 CTT 40: 230/1/60
 CTT 70: 460/3/60
 CTT 110: 430/3/60
 CTT 60: 430/3/60
- Connected load:
 CTT 40: 1.3 kw + max. 1.5 kw hopper heaters
 CTT 70: 2.0 kw + max. 3.0 kw hopper heaters
 CTT 110: 3.2 kw + max. 9 kw hopper heaters
 CTT 160: 3.6 kw + max. 9 kw hopper heaters
- Average dewpoint temperature of -60° F (-51° C)

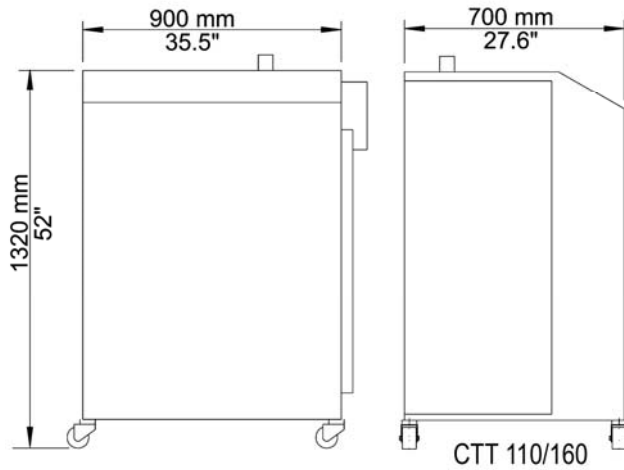
	Drying Cap. CTT 40		Drying Cap. CTT 70		Drying Cap. CTT 110		Drying Cap. CTT 160		Drying Temp.		Dwell time
	kg/h	lbs/h	kg/h	lbs/h	kg/h	lbs/h	kg/h	lbs/h	°C	°F	hr
ABS	28	60	50	110	80	180	110	240	80	176	2-3
ASA	27	60	50	110	70	150	110	240	100	212	3
CA	16	40	30	70	40	90	60	130	60	140	2-3
CP	16	40	30	70	40	90	60	130	75	167	2-3
EVA	15	30	30	70	40	90	60	130	80	176	2-3
Ionmere	16	40	30	70	40	90	60	130	90	194	3.5
PA11*	17	40	30	70	50	110	70	150	75	167	4-6
PA12*	17	40	30	70	50	110	70	150	75	167	4-6
PA6*	18	40	30	70	50	110	70	150	80	176	4-6
PA6.6*	19	40	30	70	50	110	80	180	80	176	4-6
PA6.6 GF35*	25	60	40	90	70	150	100	220	80	176	4-6
PBT	24	50	40	90	70	150	100	220	130	266	3-4
PC	30	70	50	110	80	180	120	260	120	248	2-4
PE filled	19	40	30	70	50	110	70	150	85	185	3
PE ¹	37	80	70	150	100	220	150	330	90	194	2
PEEK	20	40	40	90	60	130	80	180	150	302	4
PEI	29	60	50	110	80	180	120	260	150	302	4
PES	19	40	30	70	50	110	70	150	150	302	4
PETP	23	50	40	90	60	130	90	200	130	266	3-4
PETP	19	40	30	70	50	110	70	150	150-200	300-392	6
PETG	20	40	40	90	60	130	80	180	65	149	4
PMMA	24	50	40	90	70	150	100	220	80	176	4
POM	24	50	40	90	70	150	100	220	100	212	3
PP ¹	40	90	70	150	110	240	160	350	90	194	2
PPO	25	60	40	90	70	150	100	220	100	212	2.5
PPS	25	60	40	90	70	150	100	220	140	284	3
PS ¹	47	100	80	180	130	290	190	420	80	176	2
PSU	28	60	50	110	80	180	110	240	150	302	3
PUR	27	60	50	110	70	150	110	240	80	176	3
PVC	35	80	60	130	100	220	140	310	70	158	1-2
SAN	28	60	50	110	80	180	110	240	80	176	2-3
SB	27	60	50	110	70	150	110	240	80	176	2
TPE	20	40	40	90	60	130	80	180	110	230	3
TPU	21	50	40	90	60	130	90	200	90	194	3

* Initial moisture < 1%
Material is not heated to full pre-warming temperature



CTT 40

- A 700 mm / 27.5"
- B 80 mm / 3.2"
- C 900 mm / 35.5"
- D 300 mm / 11.8"



CTT 110/160

-Notes-

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