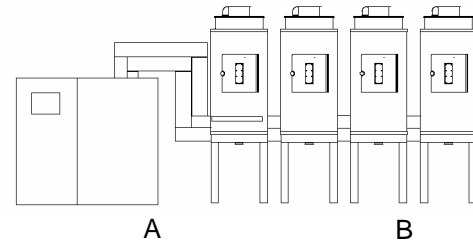


Typical application of a compact dehumidifying drying system.

- A Dry air dryer
- B Drying hoppers with auxiliary heater

Component A is described below.

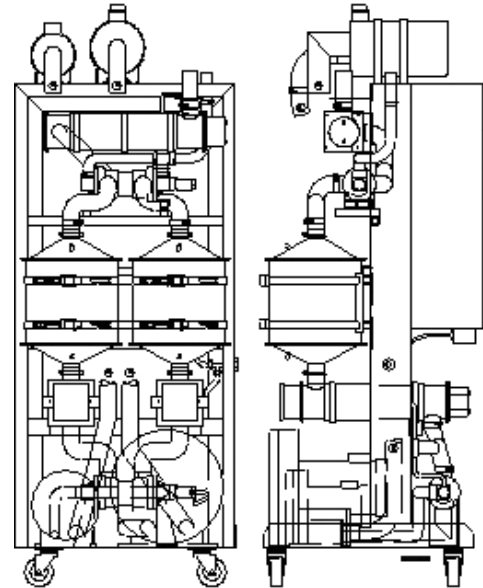


Brief Description

Application

Dehumidifying dryers remove internal and external moisture from thermoplastic pellets and regrind before processing, independent of climate or ambient air conditions.

- Regenerative-type process and regeneration blowers
- Cartridge-type process return and regeneration air filters
- Compressed air operated cast aluminum valves
- NEMA 12 control enclosure
- Low compressed air supply alarm
- Type 4A desiccant
- Casters
- LED readout of set point and process temperatures
- Off-the-shelf PID temperature controller
- Graphic display with indicator lights
- Branch fusing
- 460/3/60 supply voltage
- Three (3) year temperature controller warranty



Rugged, modular construction

Colortronic CDA medium dehumidifying dryers feature fewer moving parts, making them more reliable, less expensive, and easier to maintain than other models. The dryer cabinet is designed for maximum safety.

Colortronic compact dehumidifying dryers contain innovative mechanical and electrical design features to ensure dependable service.



Technical Information

Specifications

Process air flow cfm	Model number	Hose conn. dia. in.	Output temperature range °F	Amps 460/3/60 (name-plate)	Process blower		Regen. blower		Dimensions inches			Approx. shipping weight				
					power hp	power kW	power hp	power kW	L	W	H	L	W	H	lbs.	Kg
90	150 CDA150	2.5"	140°-400°	20	1.00	0.75	0.25	0.19	27	27	68	69	69	173	440	200
100	170 CDA170 ②	2"	185°-400°	23	4.00	3.00	0.25	0.19	27	27	68	69	69	173	475	216
150	250 CDA250	2.5"	160°-400°	34	4.00	3.00	0.33	0.25	37	37	79	94	94	239	750	341
225	380 CDA380	4"	160°-400°	45	5.00	3.75	0.33	0.25	37	37	87	94	94	239	850	386

① Aftercooler required above 250°F (121°C) operation.

② CDA170 operation below 185°F (85°C) requires a precooler.

Notes: • For 50 Hz applications, consult factory.

• For elevations in excess of 3,000 ft. (915 m), consult factory.

Options

Option description	Availability		
	CDA150/170	CDA250	CDA380
Voltage/phase/hertz:	• 208/3/60 • 230/3/60 • 380, 400, or 415/3/50 ① • 575/3/60	✓ No charge ✓ ✓	✓ ✓ ✓ ✓
Dew point meter with dirty filter indicator	✓	✓	✓
Dew point bed switching with dew point meter and dirty filter indicator	✓	✓	✓
Non-fused disconnect switch with door-mounted handle, all voltages	✓	✓	✓
NEMA 12 window kit	✓	✓	✓
7-day timer	✓	✓	✓
External communication:	• SPI protocol, dual ports • NX protocols, types RS-232C/422/485, single port	✓ ✓	✓ ✓
13x molecular sieve	✓	✓	✓
12 ft. (3.66 m) insulated process hose (lieu of standard)	✓	✓	✓
Audible/visual alarm for high temperature and low compressed air	✓	✓	✓
Heater burnout indicator ②	Consult		
High temperature process air return filter	factory		
High temperature process air delivery filter with canister	factory		

① Dryer airflow cfm (m³/h) is de-rated by 17%.

② Engineered option. Consult factory for lead times.

Aftercoolers and Precoolers

Aftercoolers are used in high-temperature drying applications (process temperatures above 250°F [121°C]) as well as with materials that emit volatiles. Aftercoolers are designed to reduce return air from 250°F to 150°F (121°C to 66°C); incoming water rises from 85°F to 95°F (29°C to 35°C). AFT30/100 through AFT225 aftercooler models include:

- Aluminum housing
- Copper tube heat exchanger
- Flexible hose and clamps

Precoolers should be used in low temperature drying applications to hold consistent process temperatures below 170°F (77°C).

Mating dryer model	Model number	Water flow		Fitting size		Mounting	Dimensions				Shipping weight	
		gpm	lpm	inches	mm		inches dia.	H	cm dia.	H	lbs.	Kg
CDA150	AFT30/100	3	11.4	0.5	12.7	dryer	8	36	20.3	91.4	35	16
CDA170	AFT30/100	3	11.4	0.5	12.7	dryer	8	36	20.3	91.4	35	16
CDA250	AFT150	4	15.1	0.5	12.7	dryer	12	36	30.5	91.4	35	16
CDA380	AFT225	6	22.7	0.5	12.7	dryer	12	49	30.5	124.5	60	28

Corporate Headquarters:

Colortronic North America, Inc.
4100 Market Place
Flint, MI 48507
Tel. 810-720-7300
Fax. 810-720-2598
colortronicweb@corpemail.com