

## Brief Description

The CDA Series dryers are quality-engineered to provide optimum drying performance under the most demanding conditions. The dual-bed, closed-process loop design incorporates many innovative features that consistently provide  $-40^{\circ}\text{F}$  dewpoint in high humidity environments all the way up to 150 grains moisture level. All models include off-the-shelf microprocessor control for process temperature and desiccant regeneration. With high performance features in a simple, compact design, our CDA Series dryers combine superior performance with easy operation and serviceability at an affordable price.

## Standard Features

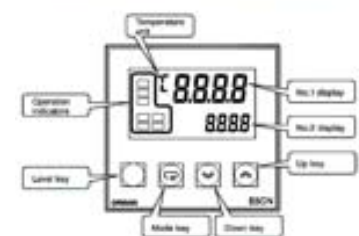
- Off the shelf programmable controller and 1/16 DIN digital temperature control
  - Standard units  $180^{\circ}\text{F}$  to  $250^{\circ}\text{F}$  ( $82^{\circ}\text{-}121^{\circ}\text{C}$ )
  - Low temperature units  $120^{\circ}\text{F}$  to  $180^{\circ}\text{F}$  ( $49^{\circ}\text{-}82^{\circ}\text{C}$ )
  - High temperature units  $250^{\circ}\text{F}$  to  $400^{\circ}\text{F}$  ( $121^{\circ}\text{-}204^{\circ}\text{C}$ )
- 13X molecular sieve
- Regenerative process blower
- “Process high temp” alarm light
- Process and regeneration high temperature safeties
- 2.5” dryer hose connections
- NFPA79, UL and CUL electrical standards conformance
- NEMA 12 control enclosure
- Electrically-actuated air valve
- Non-fused electrical disconnect
- Branch fusing
- Supply voltage (specify): 208, 230, 460, 575/3/60
- Three-year temperature controller warranty
- 12’ low-temperature return air hose (floor mount only)
- 12’ high-temperature silicone dryer delivery air hose with two clamps (floor mount only)
- Thermocouple to mount in drying hopper air inlet (floor mount only)
- Insulated stainless steel mass flow drying hopper with standard slide gate and sight glass. Access doors on the 3-9 cu. ft. (85-250 liter) models are standard. Access doors are optional on the 1.7 cu. ft. (50 liter) model but are not available on the 0.85 cu. ft. (25 liter) model (machine mount only)
- Stainless steel plasticizer trap (with after-cooler) in lieu of standard after-cooler included in temperature package (mounts outside the dryer)

## Optional Features

- Low temperature operation  $120^{\circ}$  to  $180^{\circ}\text{F}$  ( $49^{\circ}\text{-}82^{\circ}\text{C}$ ) (includes a pre-cooler to cool the dry air before entering the process heater)
- High temperature operation  $250^{\circ}$  to  $400^{\circ}\text{F}$  ( $121^{\circ}\text{-}204^{\circ}\text{C}$ ). Includes insulated process delivery air hose and return air after-cooler to maximize the efficiency of the dryer
- Audible high-process temperature alarm with reset button
- Heavy duty 4” casters (floor mount only)
- Stainless steel premium slide gate (square flange) or drawer magnet (square flange) (machine mount only)
- AP1 controller, including touch-screen interface, solid state relay for heater control, dewpoint monitor, dirty filter indicator, 7-day timer, material over-drying protection and expanded diagnostics, and optional ethernet module
- Dewpoint monitor  $15^{\circ}$  to  $-40^{\circ}\text{F}$  ( $-9^{\circ}$  to  $-40^{\circ}\text{C}$ ) (standard with AP1)
- Redundant process air safety: separate temperature controller and thermocouple
- 220/3/50 or 400/3/50 and CE compliance (touch-safe fuse holders for Euro fuses and touch-safe transformer). De-rate cfm by 17% for 50 hz applications



Machine Mount



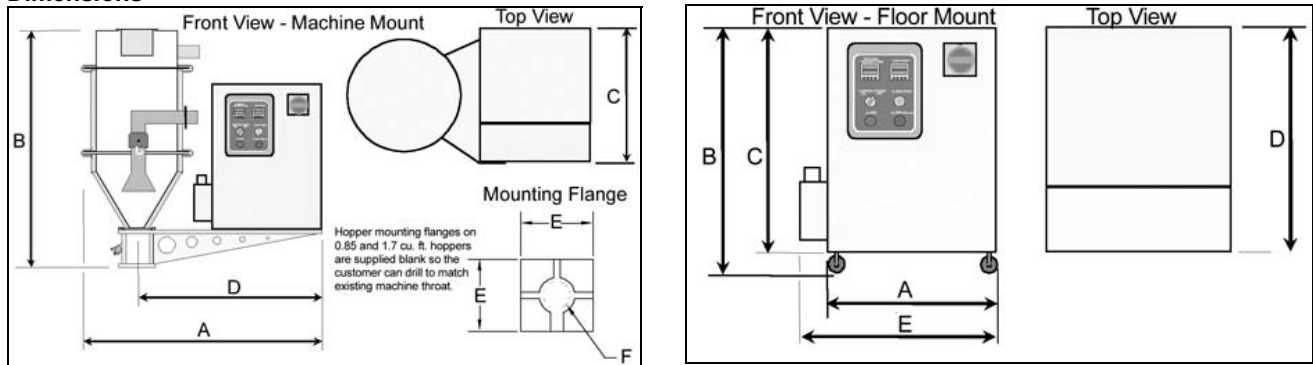
Standard Controller  
CM2-515.1

**Technical Information**

**Specifications**

	Floor Mount			Machine Mount								
	CDA-25	CDA-50	CDA-100	CDA-25 0.85M	CDA-25 1.7M	CDA-50 1.7M	CDA-50 3M	CDA-50 4M	CDA-100 3M	CDA-100 4M	CDA-100 6M	CDA-100 9M
Process Air Flow, cfm (m <sup>3</sup> /h)	15 (25)	30 (50)	60 (100)	15 (25)	15 (25)	30 (50)	30 (50)	30 (50)	60 (100)	60 (100)	60 (100)	60 (100)
Standard Voltage	460/3/60			460/3/60								
Full Load Amps (@460/30/60)	7.7	8.8	17.2	7.7	7.7	8.8	8.8	8.8	17.2	17.2	17.2	17.2
Weight, lbs. (kg)	290 (135)	305 (140)	370 (170)	520 (240)	540 (245)	560 (255)	650 (295)	680 (310)	725 (330)	760 (345)	790 (360)	C/F
Drying Hopper	CD-0.85 or CD-1.7	CD-1.7, CD-3, CD-4, CD-6	CD-4, CD-6	CD-0.85	CD-1.7	CD-1.7	CD-3	CD-4	CD-3	CD-4	CD-6	CD-9

**Dimensions**



Dia. in (cm)	CDA-25 0.85M	CDA-25 1.7M	CDA-50 1.7M	CDA-50 3M	CDA-50 4M	CDA-100 3M	CDA-100 4M	CDA-100 6M	CDA-100 9M
A	42 (107)	45 (115)	45 (115)	48 (122)	48 (122)	56 (145)	56 (145)	56 (145)	56 (145)
B	33 (85)	45 (115)	45 (115)	45 (115)	51 (130)	44 (115)	51 (130)	63 (160)	81 (206)
C	30 (76)	30 (76)	30 (76)	30 (76)	30 (76)	34 (86)	34 (86)	34 (86)	34 (86)
D	35 (89)	35 (89)	35 (89)	35 (89)	35 (89)	46 (116)	46 (116)	46 (116)	46 (116)
E	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)
F	3 (3.8)	3 (3.8)	3 (3.8)	3 (3.8)	3 (5.1)	3 (5.1)	3 (5.1)	3 (5.1)	3 (5.1)

Dia. in (cm)	CDA-25	CDA-50	CDA-100
A	20 (51)	20 (51)	24 (61)
B	32.5 (83)	32.5 (83)	32.5 (83)
C	30 (76)	30 (76)	30 (76)
D	30 (76)	30 (76)	34 (86)
E	23.75 (60)	23.75 (60)	28 (71)

**After-coolers and plasticizer traps**

After-coolers are used in high temperature drying applications to lower return temperatures and enhance dryer performance. The after-cooler option is required on all models when process temperatures are above 250°F or batch drying application. All after-coolers are mounted inside the dryer cabinet and include external ½" NPT cooling water connections.

After-cooler water flow – 3 gpm (11.4 l/m)	Additional shipping weight – 10 lbs (4.5 kg)
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All plasticizer trap/after-cooler combinations are mounted outside the cabinet on the back of the dryer

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