

# SDAA SERIES

## Dehumidifying Dryer



SDAA Series Dryer with optional cart

## Technical Specifications

SDAA Series Dehumidifying Dryers are 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 up to 150 grains moisture level.

All models include microprocessor control for process temperature and desiccant regeneration. With high performance features in a simple, compact design, SDAA Series dryers from Sterling combine superior performance with easy operation and serviceability.

## Features

### Standard Features

- Programmable digital temperature control
- Standard temperature operation  $180^{\circ}\text{F}$  to  $250^{\circ}\text{F}$  ( $82^{\circ}$ - $121^{\circ}\text{C}$ )
- 13X molecular sieve
- Regenerative process blower
- "Process high temp" alarm light
- Process and regeneration high temperature safeties
- 2.5" (64 mm) dryer hose connections
- NFPA79, UL and CUL electrical standards conformance
- NEMA 12 control enclosure
- Electrically-actuated air valve
- Non-fused electrical disconnect
- 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

### Optional Features

- Low temperature operation  $120^{\circ}$  to  $180^{\circ}\text{F}$  ( $49^{\circ}$  to  $82^{\circ}\text{C}$ )
- High temperature operation  $250^{\circ}$  to  $400^{\circ}\text{F}$  ( $121^{\circ}$  to  $204^{\circ}\text{C}$ )
- Audible high-process temperature alarm with reset button
- Heavy duty 4" casters on Floor mount, also available as Machine Mount or Portable Cart
- Stainless steel premium slide gate or drawer magnet (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
- Plasticizer trap

## Controller



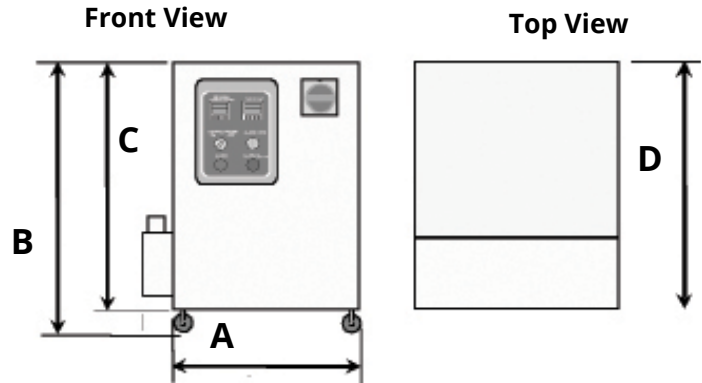
Standard Controller with optional Dew Point Monitor

### Optional Controller

#### AP1 Controller

- Touch-screen interface
- Solid state relay for process heater control
- Dirty filter indicator
- 7-day timer
- Material over-drying protection
- Expanded diagnostics
- Dew point monitor
- Audible Visual Alarm
- Optional Ethernet Module

## Product Diagrams



Model	Dimensions, in. (cm)			
	A	B	C	D
SDAA25	20 (51)	30.8 (78)	30 (76)	28.8 (76)
SDAA50				28.8 (76)
SDAA100	24 (61)			33.8 (86)

## Specifications

Model	Drying Temperature Range	Throughput Range	Process Air Flow CFM (m <sup>3</sup> /hr)	Standard Voltage	Full Loads Amps (@460/30/60)	Weight, lbs (kgs.)
SDAA25	180° to 250° F (82° to 121°C)	15 to 100 lbs/hour (7 to 45 kg/hour)	15 (25)	460/3/60	7.7	290 (135)
SDAA50			30 (50)		8.8	305 (140)
SDAA100			60 (100)		17.2	370 (170)

### 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 is required on all models when process temperatures are above 250°F or batch drying applications. All after-coolers are mounted inside the dryer cabinet and external 1/2" NPT cooling water connections

All plasticizer trap/after-cooler combinations are mounted outside the cabinet on the back of the dryer.

Dryer Size	AD15	AD30	AD60
After-cooler water flow, gpm (l/m)	3 (11.4)		
Additional shipping weight, lbs. (kg)	10 (4.5)		