

## **SDA SERIES** 15-60 CFM LOW CAPACITY DEHUMIDIFYING DRYERS

Sterling SDA25, SDA50 and SDA100 compact dehumidifying dryers offer full performance in a compact size. All SDA Series dryers are made for the drying of thermoplastic pellets and regrind, before processing in order to remove moisture from the pellets both inside and out, independent of climate or ambient air conditions. With its small, compact and energy efficient design, the SDA Series is designed for continuous, 24 hour operation. Dry-air regeneration circuit uses -40°F dewpoint air to regenerate and cool desiccant beds, and provides a consistent, low dew point to process.



### Features

- Mitsubishi programmable relay controller
- 1/16 DIN PID temperature controller
- Drying temperature of 180° to 250° F (80° to 121° C)
- High process and regeneration temperature safeties
- 13X molecular sieve
- Single regenerative process blower
- Electrically-actuated bed switching valve
- Average dewpoint temperature of -40°F
- 2.5" (64 mm) air inlet/outlet OD
- Approximate weight 85 lbs (39 kgs) for SDA25, 125 lbs (57 kgs) for SDA50, 160 lbs (73 kgs) for SDA100

### Options

- High temperature operation 250° F to 400° F (121° to 205° C), includes a return air after-cooler to maximize the efficiency of the dryer and an external process heater
- Low temperature operation 120° F to 180° F (49° to 82° C), includes a pre-cooler
- Casters for floor mount dryer
- 3" O.D. line connection
- Machine mount adapter to accommodate a dryer and corresponding hopper – also includes relocation of dryer control box to bottom of dryer body
- 220/1/50 supply voltage (SDA25 and SDA50 only)
- 208, 230, 460, 575/3/60 supply voltage
- 400/3/50 supply voltage (de-rate cfm by 17% for 50 hz applications)
- Leg kit with casters to mount dryer and one (1) drying hopper
- Non-fused disconnect included on three phase units
- Dew point monitor



# SDA SERIES

## SPECIFICATIONS

Model	Airflow, cfm (m3/hr)	Air inlet/outlet OD, in. (mm)	Full load amps	Width, in. (mm)	Depth, in. (mm)	Height, in. (mm)*	Shipping weight, lbs. (kg)
SDA25	15 (25)	2.5 (63.5)	19 (@115V)	12 (305)	23.5 (597)	24 (610)	85 (39)
SDA50	30 (50)	2.5 (63.5)	27 (@115V)	12 (305)	36 (914)	24 (610)	125 (57)
SDA100	60 (100)	2.5 (63.5)	12 (@460V)	12 (305)	36 (914)	29 (737)	160 (73)

\* Add 4" to height for casters.

## AFTER-COOLERS PLASTICIZER TRAP

The SDA after-coolers are used in high temperature (above 250°F) or batch drying applications to reduce the return air temperature. All after-coolers are mounted on the dryer with a 1/2" NPT cooling water connection.

## DRYER OPERATING PARAMETERS

FLA (Full Load Amps)							
	115/1/60	220/1/50	208/3/60	230/3/60	400/3/50	460/3/60	575/3/60
SDA25	19.3	10.3	13.4	12.2	8.3	7.1	5.9
SDA50	27.3	14.3	14.4	13.2	9.3	8.1	6.9
SDA100	X	X	26.2	21.5	13.8	12.3	9.6

	SDA25		SDA50				SDA100			
	0.85 ft <sup>3</sup> / 24 liters	1.7 ft <sup>3</sup> / 48 liters	1.7 ft <sup>3</sup> / 48 liters	3.0 ft <sup>3</sup> / 85 liters	4.0 ft <sup>3</sup> / 113 liters	6.0 ft <sup>3</sup> / 170 liters	3.0 ft <sup>3</sup> / 85 liters	4.0 ft <sup>3</sup> / 113 liters	6.0 ft <sup>3</sup> / 170 liters	9.0 ft <sup>3</sup> / 255 liters
A	28.5	28.5	28.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
B	30	30	30	42.5	42.5	42.5	42.5	42.5	42.5	42.5
C	28	28	28	28	28	28	33	33	33	33
D	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5	11.5
E	22	22	22	22	22	22	22	22	22	22
F	28	28	28	28	28	28	33	33	33	33
G	47.5	56.5	56.5	60.5	66	78	60.5	66	78	90
H	29.5	29.5	29.5	36	36	36	36	36	36	36
J	23.5	23.5	23.5	36.5	36.5	36.5	36.5	36.5	36.5	36.5
K	30	30	30	38.5	38.5	38.5	38.5	38.5	38.5	38.5
L	31.5	40.5	40.5	44.5	56	68	44.5	56	68	80

