

SDA SERIES 350-500 CFM HIGH CAPACITY DEHUMIDIFYING DRYERS

These high capacity models feature twin plenum chambers in each tower for even air flow across desiccant beds. Skid-mounted construction lowers rigging, installation, and maintenance costs. The SDA Series high capacity dryers offer user-friendly, off-the-shelf controls. The unit provides a compact frame with minimum moving parts, easy accessibility for maintenance and a small footprint. Every dryer is factory-tested before shipment to assure reliable performance for years to come. Optimal desiccant utilization guarantees lowest dew point.



Features

- LED readout of set point & process temperatures
- Off-the-shelf programmable controller
- NEMA 12 control enclosure
- Dew point bed switching with dew point meter and dirty filter indication
- Process and regeneration air filters
- Off-the-shelf microprocessor-based PID temperature controller
- Mercury contactors on process heaters
- Branch fusing
- One (1) 12-foot length and one (1) 20-foot length of high-temperature flexible hose with four (4) clamps (SDA 600 model has [2] 12-foot lengths with [4] clamps)
- 4-way positive seal air-operated aluminum valves
- Regenerative type process blower
- Alarm indicator lights for :
 - High dew point
 - Dirty filter
 - High process temperature
 - Low process temperature
 - High-regeneration air temperature
 - Low-regeneration air temperature
 - Process blower failure
 - Regeneration blower failure
- Maximum standard temperature: 300°F (149°C). High temperature packages available
- 460/3/60 supply voltage
- Three (3) year temperature controller warranty

Options

- High temperature operation up to 400°F (204°C)
- 208 or 230/2/60, 380, 400 or 415/3/60; 380/3/60; 575/3/60
- Disconnect switch with door-mounted handle: 460/3/60 (non-fused); 230/3/60 (non-fused); 380, 400 or 415/3/50; 380/3/60; 575/3/60
- Heater burnout indicator (amp meters)
- Valve positioning error alarm
- Redundant high-temperature shut down
- 13X molecular sieve
- Audible and visual alarm annunciator
- High temperature process air delivery filter
- Return air temperature digital display
- 12 ft. insulated process hose
- 7 day timer
- External communication: SPI protocol dual ports, or Nxprotocols types RS-232C/422/485 single port
- Less process heaters (HE style), less process heaters and controller (CHE style), less process blower, heaters and controller (BCHE style)
- Designed for elevations above 3000 ft.
- CUL compliance

Remote-mount dew point monitors:

Dew point monitors include: meter, set plugs and cord set for 115/1/60, sensor for delivery air, and lights. DMP20 model includes audible alarm with reset button; DPMS model includes output for remote alarm. DPM20 operating range is -40° to 10°F (-40° to -12°C). DPMS operating range is -80° to -20°F (-62° to -29°C)



SDA SERIES

SPECIFICATIONS

Model	Airflow	Hose con. dia.	FLA 460/30/60	Process blower	Regen. Blower	Length in (cm)	Width in (cm)	Height in (cm)	Shipping Weight lbs. (kg)
	cfm (cfh)	in (mm)		hp (kW)	hp (kW)				
SDA600	350 (595)	4 (101)	54	5 (3.73)	0.5 (0.37)	56 (142)	56 (142)	73 (185)	1000 (455)
SDA720	425 (720)	5 (127)	55	7.5 (5.6)	0.5 (0.37)	61 (155)	52 (132)	82 (208)	1100 (500)
SDA850	500 (850)	5 (127)	72	7.5 (5.6)	0.5 (0.37)	63 (160)	66 (168)	94 (239)	1200 (545)

SDA-RT HIGH TEMPERATURE MODELS

	SDA600-RT	SDA720-RT	SDA850-RT
Amp Draw	64	67	75

AFTER-COOLERS AND PRE-COOLERS

AFT350 through AFT500 models come standard with mild steel housing, copper/steel fin and coil heat exchanger, and flexible hose and clamps.

Aftercoolers are used in high temperature drying applications when process temperatures are above 250°F (121°C). Precoolers are used in low temperature drying applications to hold consistent process temperatures below 170°F (77°C).

Model	After-Cooler	Water Flow, gpm (lpm)	Fitting Size, in. (mm)	Shipping Wt., lbs. (kg)
SDA600	AFT350	7 (26)	0.75 (19)	100 (46)
SDA720	AFT425	10 (37)	1 (25)	120 (55)
SDA850	AFT500	10 (37)	1 (25)	120 (55)

After-coolers and pre-coolers are mounted to the frame and do not increase dryer size.

REMOTE-MOUNT DEW POINT MONITORS

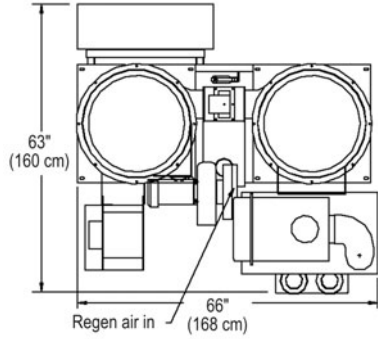
Dew point monitors include: meter, set plugs and cord set for 115/1/60, sensor for delivery air, and lights. DMP20 model includes audible alarm with reset button; DMPS model includes output for remote alarm.

DPM20 operating range is -40°F to 10°F (-40°C to -24°C)

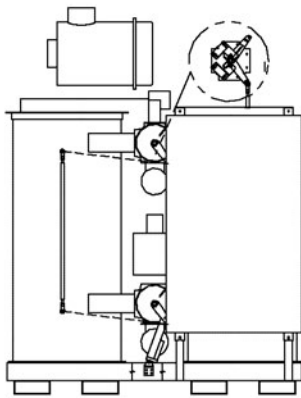
DPMS operating range is -80°F to -20°F (-62°C to -29°C)



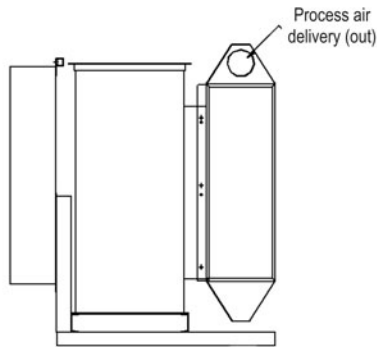
SDA SERIES



Top View



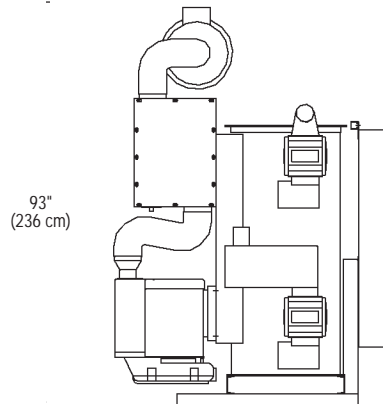
Front View



Right Side View

Process air delivery (out) Regen air out

Process air return(in)



Rear View

Left Side View





DRYING SYSTEMS

HIGH CAPACITY DEHUMIDIFYING DRYERS

SDA SERIES

NOTES:



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