



LOW CAPACITY DEHUMIDIFYING DRYERS

15-60 CFM LOW CAPACITY DEHUMIDIFYING DRYERS

Sterling's AD Desiccant Dryer is compact in size with full size performance. The dryer has easy-to-use off-the-shelf microprocessor control and provides digital temperature control for temperatures up to 300°F (High temperature, 400°F option available).

Features

- Compact size with full size performance
- Standard off-the-shelf programmable logic controller with 1/16 DIN digital temperature control
 - Standard units 180°F to 250°F
 - Low temperature units 120°F to 180°F
 - High temperature units 250°F to 400°F
- Control system complies with NFPA79 and UL/CUL for maximum safety, including electrical disconnect and branch fusing
- Dual bed, closed process loop design uses 13X desiccant and a unique air flow circuit
- -40° dewpoint in high humidity environments (in excess of 150 grain moisture level)
- Removes up to 1% of moisture content by weight
- New cabinet style design for maximum safety
- Stainless steel desiccant cans and heater boxes
- High-efficiency 1 micron filter with easy accessibility
- Electric switching valve—no compressed air required
- Energy-efficient, high pressure regenerative blower provides full-rated air flow to process: 15, 30 and 60 CFM (25, 50 and 100 m³/hr)

Options

- Heavy-duty 4" casters
- Low heat operation 120°F to 180°F (includes a pre-cooler to cool dry air before entering the process heater)
- High heat operation 250°F to 400°F (includes insulated process delivery air hose and a return air after-cooler to maximize the efficiency of the dryer)
- Plasticizer trap with stainless steel housing
- After-cooler
- Portable carts for dryer and drying hoppers
- AP1 PLC-based control system with touch-screen
- Portable drying systems with integral conveying to process machine(s)



SDAA Machine Mount
Dryer with Hopper



SDAA Floor Mount
Model Desiccant Dryer



Machine Mount Dryers Also Include

- Machine mount adapter with drain
- Interconnecting hose and clamps

Floor Mount Dryers Also Include

- 12' high-temperature silicone hose and clamps for process air
- 12' standard dryer hose and clamps for return air
- Rubber feet

Standard Control System Features

- Off-the-shelf 1/16 DIN temperature controller with auto tune and PID
- Programmable logic based control system
- Enclosure meets NFPA 79, UL and CUL electrical standards
- Non-fused disconnect
- High process temperature alarm light
- Temperature controlled regeneration with safety

Standard Control System Options

- Audible alarm with silence button
- Digital dewpoint monitor to -40°F



The standard control system features digital temperature control.

AP1 Controller Features

- Touch-screen interface provides clear information about desiccant bed regeneration, process temperature, and dewpoint
- Off-the-shelf programmable controller monitors and controls the drying and conveying system
- Allows simple start-up, shut-down, and adjustment of drying and conveying parameters
- Integral PID temperature control with display of setpoint and actual process temperature
- Display of "actual" dewpoint
- Alarm indication also includes high temperature conditions, dirty filters, and heater failure
- Dryer "auto shutdown" sequence
- Loop break alarm
- 7 day timer
- Material over-drying protection

AP1 Controller Option

- Ethernet module



The AP1 PLC controlled system includes a touch-screen interface.



Sterling New Berlin
 2900 S 160th Street
 New Berlin, WI 53151 USA
 Tel: +1 262 641 8610
 Fax: +1 262 641 8653
www.sterlco.com

Sterling Schaumburg
 1100 E Woodfield Rd #550
 Schaumburg, IL 60173 USA
 Tel: +1 847 273 7700
 Fax: +1 847 273 7804

Sterling India
 Gat No. 191/1, Sandbhor Complex,
 Mhalunge, Chakan, Tal Khed,
 Dist. Pune 410501, India
 Tel: +91 21 35329112
 Fax: +91 20 40147576

Sterling Warsaw
 ul.Dziakowa 115
 02-234 Warszawa
 Tel: +48 22 390 9720
 Fax: +48 22 390 9724

Sterling Suzhou
 109 Xingpu Road SIP
 Suzhou, China 215126
 Tel: +86 512 8717 1919
 Fax: +86 512 8717 1916

