

AD SERIES

Dehumidifying Dryers



AD Series Dryer with optional cart

Technical Specifications

AD 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°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, AD Series dryers from AEC combine superior performance with easy operation and serviceability.

Features

Standard Features

- Programmable digital temperature control
- Standard temperature operation 180°F to 250°F (82° - 121°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° to 180°F (49° to 82°C)
- High temperature operation 250° to 400°F (121° to 204°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° to -40°F (-9° to -40°C) (standard with AP1)
- Redundant process air safety: separate temperature controller and thermocouple
- 220/3/50 or 400/3/50
- Plasticizer trap

Controller



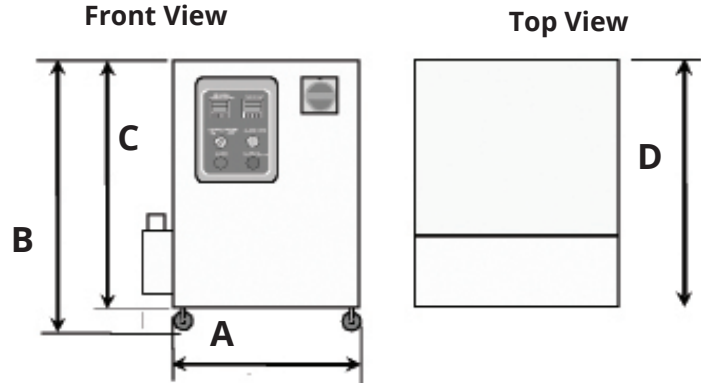
Standard Controller with optional Dew Point Monitor

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
AD15	20 (51)	32.5 (83)	30.8 (78)	29.8 (76)
AD30				29.8 (76)
AD60	24 (61)			33.8 (86)

Specifications

Model	Drying Temperature Range	Throughput Range	Process Air Flow CFM (m ³ /hr)	Standard Voltage	Full Loads Amps (@460/30/60)	Weight, lbs (kgs.)
AD15	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)
AD30			30 (50)		8.8	305 (140)
AD60			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 processes 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)		