



## AD SERIES COMPACT DEHUMIDIFYING DRYERS 15-60 CFM (25-100 m<sup>3</sup>/HR)

The AD Series dryers are quality 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 all the way up to 150 grains moisture level. All models include off-the-shelf microprocessor control for process temperature and desiccant regeneration. With high performance features in a simple, compact design, our AD Series dryers combine superior performance with easy operation and serviceability at an affordable price.



ADM Machine Mount Dryer

### STANDARD FEATURES

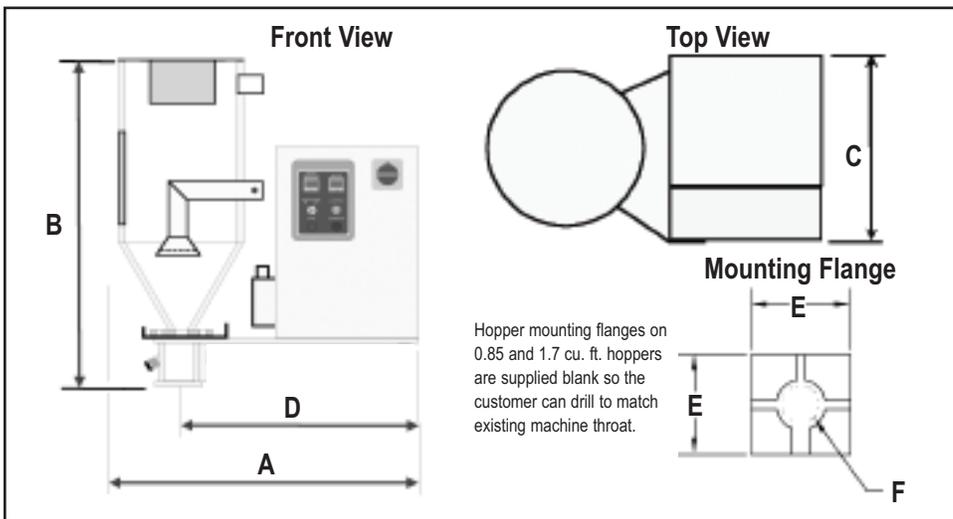
- Off-the-shelf programmable controller with 1/16 DIN digital temperature control
  - Standard units 180°F to 250°F
  - Low temperature units 120°F to 180°F
  - High temperature units 250°F to 400°F
- 13X molecular sieve
- Regenerative process blower
- “Process high temp” alarm light
- Process and regeneration high temperature safeties
- AD-15 through AD-60 – 2.5” connections
- NFPA79, UL and CUL electrical standards conformance
- NEMA 12 control enclosure
- Electrically-actuated air valve
- Non-fused electrical disconnect
- Branch fusing
- Supply voltage (specify): 208, 230, 460, 575/3/60
- Three-year temperature controller warranty
- Insulated stainless steel mass flow drying hopper with standard slide gate and sight glass. Access doors on the 3-9 cu. ft. (85-250 liter) models are standard. Access doors are optional on the 1.7 cu. ft. (50 liter) model but are not available on the 0.85 model (25 liter)
- Covers to mount SRC or SRI vacuum receiver or hopper loader
- Stainless steel plasticizer trap (with after-cooler) in lieu of standard after-cooler included in temperature package (mounts outside the dryer)

### OPTIONAL FEATURES

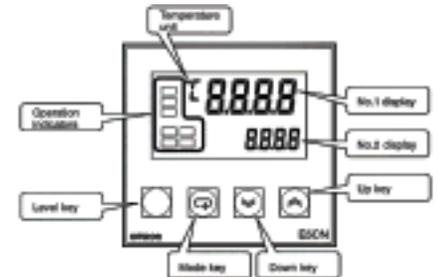
- Audible high-process temperature alarm with reset button
- Low temp operation 120° to 180°F. Low heat operation includes a pre-cooler to cool the dry air before entering process air heater
- High temperature operation 250°F to 400°F. Includes insulated process delivery air hose and return air after-cooler to maximize the efficiency of the dryer
- Stainless steel premium slide gate (square flange) or drawer magnet (square flange)
- 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
- Portable cart with appropriate flange (no conveying)
- Dewpoint monitor (15 to -40°F) (standard with AP1)
- Redundant process air safety: separate temperature controller and thermocouple
- 220/3/50 or 400/3/50 and CE compliance (touch-safe fuse holders for Euro fuses and touch-safe transformer). De-rate cfm by 17% for 50 hz applications

## SPECIFICATIONS

	AD-15 0.85M	AD-15 1.7M	AD-30 1.7M	AD-30 3M	AD-30 4M	AD-60 3M	AD-60 4M	AD-60 6M	AD-60 9M
Process Air Flow, CFM (m <sup>3</sup> /hr)	15 (25)	15 (25)	30 (50)	30 (50)	30 (50)	60 (101)	60 (101)	60 (101)	60 (101)
Standard Voltage	460/3/60								
Full Load Amps (@ 460/30/60)	7.7		8.8			17.2			
Weight, lbs. (kg)	520 (240)	540 (245)	560 (255)	650 (295)	680 (310)	725 (330)	760 (345)	790 (360)	C/F
Drying Hopper	SD-0.85	SD-1.7	SD-1.7	SD-3	SD-4	SD-3	SD-4	SD-6	SD-9



## STANDARD CONTROLLER



Diameter in. (cm)	AD-15 (0.85)	AD-15 (1.7)	AD-30 (1.7)	AD-30 (3.0)	AD-30 (4.0)	AD-60 (3.0)	AD-60 (4.0)	AD-60 (6.0)	AD-60 (9.0)
A	42 (107)	45 (115)	45 (115)	48 (122)	48 (122)	56 (145)	56 (145)	56 (145)	56 (145)
B	33 (85)	45 (115)	45 (115)	44 (115)	51 (130)	44 (115)	51 (130)	63 (160)	81 (206)
C	30 (76)	30 (76)	30 (76)	30 (76)	30 (76)	34 (86)	34 (86)	34 (86)	34 (86)
D	35 (89)	35 (89)	35 (89)	35 (89)	35 (89)	46 (116)	46 (116)	46 (116)	46 (116)
E	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)	7 (18)
F	3.0 (3.8)	3.0 (3.8)	3.0 (3.8)	3.0 (5.1)	3.0 (5.1)	3.0 (5.1)	3.0 (5.1)	3.0 (5.1)	3.0 (5.1)

## 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 option 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 include external 1/2" NPT cooling water connections.

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

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