

2-Bed Portable Dryers

Industry standard dryer, hopper and optional loading systems provide easy, reliable and safe material handling by eliminating press/extruder mounted drying hoppers for fast material changes.

■ **Reliable 2-bed operation offers:**

- Dew points as low as -49°F
- No moving parts

■ **Energy efficiency:**

- Temperature based regeneration; adapts to ambient and material conditions
- Single blower design will save up to 50% in energy costs

■ **Standard benefits:**

- Stainless steel hoppers have laser-cut access doors which eliminate troublesome gaskets
- Full-flo electric valve for bed switchover eliminates compressed air
- Compact design saves valuable floor space
- Convenient handle allows for easy mobility

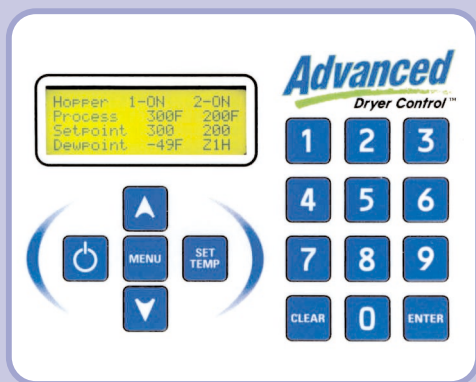
Model PD-1 through PD-8



APD features

- Space-saving, compact design
- Stainless steel, insulated hoppers
- PLC-based control is standard
- Closed loop loading (optional) conveys dried material with dry air
- Available power: 208, 230, 400, 480, 600 VAC; 50/60 Hz

Dri-Air Model	Process Rate		Hopper Capacity		Dimensions	
	(lbs/hr)	(kg/hr)	(lbs)	(kg)	[l/w/h] inch	[l/w/h] cm
APD-1	7.5	5	30	14	25/39/57	64/99/145
APD-2	15	7	60	27	25/39/62	64/99/169
APD-3	25	12	100	45	25/39/60	64/99/152
APD-4	35	16	150	68	25/39/73	64/99/185
APD-5	40	20	150	68	30/52/75	76/152/191
APD-6	50	25	200	91	30/52/69	76/152/175
APD-7	75	35	300	136	30/52/84	76/152/213
APD-8	90	45	300	136	30/52/84	76/152/213
APD-9	110	45	400	181	50/42/92	127/107/234
APD-10	150	68	600	272	50/42/112	127/107/284
APD-11	200	91	600	272	50/42/112	127/107/284



ADC – Advanced Dryer Control

The new ADC (Advanced Dryer Control) was introduced for optimum operation of the dryer with user-friendly menus.

- The easy-to-see alphanumeric display indicates all operating parameters and leads the operator through a menu driven program for all settings and information. All fault conditions are shown on the display in a format that is easy to understand.
- Temperature setback option prevents overdrying and degradation of material caused by excessive residence time in the hopper.
- As with earlier designs, the ADC is driven by thermocouples strategically located in the towers, hoppers, and other locations to properly control the operation of the dryer. Temperature-based regeneration eliminates temperature spikes associated with time-based regeneration.
- The newly implemented event log captures all operating parameters for quick diagnosis.

ADC features

- Dew point readout down to -49°F
- Easy setting of process temperature
- Blower rotation detection
- Set start and stop times daily
- Monitoring of heater current to check heater and relay conditions
- Automatic learn mode for heater currents at local voltage
- Date and time indication
- Adjustable high temperature and dew point alarm
- Open thermocouple detection
- Closed loop control of valve position
- Actual fault indication – no codes to look up
- Temperature calibration for ISO 9000
- Optional Ethernet control
- Library of resins automatically sets process temperature
- Event log
- 5-year replacement warranty

Standard PLC-based Control

General purpose controller – easy to use. This controller offers highly reliable operation of the dryer based on bed temperatures rather than time-based as most other controls. It is suitable for general purpose drying applications around the world adjusting to changing conditions.



- High temperature alarm and shutdown
- Indicator lights for zone positions and heater status
- Board-mounted LED lights for easy troubleshooting

Dri-Shot Loader

System features

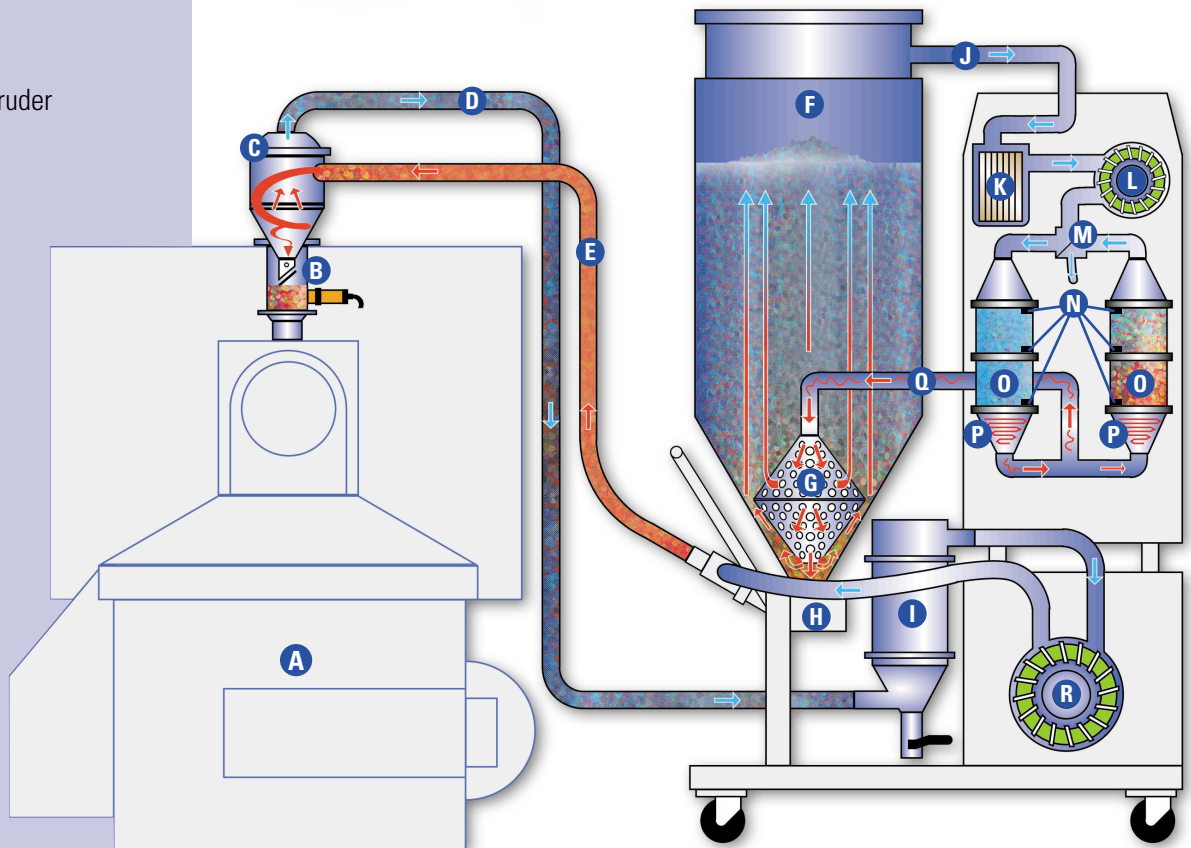
- Brushless blower for quiet, reliable operation
- Bag filter with blow back
- Small, Dri-Shot receiver improves plant safety
- Can be used to load drying hoppers for a complete, integrated package
- Can be configured to load two presses/extruders



Convey dried material with dry air, eliminating moisture contamination associated with compressed or ambient plant air. Closed loop loaders are available with portable dryers or as stand-alone units. Eliminates press/extruder mounted drying hoppers.

- Stainless steel construction with internal flap valve that provides a positive seal at the throat – simplifies installation on color feeders, slide gates, swing arms or existing magnet drawers.
- Adjustable time-fill accommodates process rates up to 250 lbs./hr. Larger sizes available.

- Ⓐ Molding Machine or Extruder
- Ⓑ Flap Valve
- Ⓒ Material Receiver
- Ⓓ Vacuum Line
- Ⓔ Material Line
- Ⓕ Drying Hopper
- Ⓖ Air Diffuser Basket
- Ⓗ Take-Off Box
- Ⓘ Loader Filter
- Ⓝ Return Line
- Ⓚ Dryer Filter Element
- Ⓛ Vortex Dryer Blower
- Ⓜ Electric Air Valve
- Ⓝ Thermocouples
- Ⓞ Desiccant Beds
- Ⓟ Process/Regeneration Heaters
- Ⓠ Supply Line
- Ⓡ Vortex Loader Blower



Airflow schematic of portable dryer with closed loop loading