Since 1974 Dri-Air has been the industry leader in proven desiccant dryer technology, offering the highest quality at competitive pricing. Our constant attention to detail and incredible response time has helped us sell thousands of drying systems worldwide. From 1 pound to 3000 pounds per hour, we offer solutions to a wide range of industries from simple solutions to complex custom applications.

Customer satisfaction is our priority. It's our unwavering commitment to provide energy efficient dryers that effectively dry any material that has supported the best, world class customers in the industry. Our U.S. built systems offer years of trouble-free service.
The components that make up the heart of the Dri-Air system

All Dri-Air dryers utilize a single blower design and a slip stream of dry air for regeneration for unmatched energy efficiency and dewpoints down to -131°F!

Airflow Schematic

A) Drying Hopper
- Stainless steel insulated construction
- Laser cut access door eliminates troublesome door gaskets

B) Temperature Setback
- Prevents over-drying – Thermocouple monitors the return temperature & material usage to guard against over drying and degradation of resin caused by excessive residence time in the hopper

C) Return Line

D) Dryer Filter Element

E) Single Blower Design
- Saves energy for both drying and regeneration air

F) Electric Dryer Valve
- No compressed air required
- High temperature, self-adjusting, long-life seals
- 5 year warranty
- Valve position monitored by ADC & SmartTouch Control

G) Vent

H) Thermocouple Controlled Regeneration
- On demand, energy efficient regeneration
- No temperature spikes
- Thermocouples monitor temperature in desiccant beds

I) 4-Bed Design, Faster Drying, No Moving Parts
- Fast drying with dewpoints below -49°F down to -131°F!
- Most energy efficient dryer on the market (when compared to compressed air, rotary wheel, vacuum and other dual bed dryers)

J) Process/Regeneration Heaters (4)

K) Slip Stream of Dry Process Air
- No ambient air for regeneration and cool down

L) Process Heater
(on 50-CFM Models and larger)

M) Supply Line

N) Process Thermocouple

O) Air Diffuser Basket
Why Dri-Air?

- Laser cut access door, eliminates troublesome gaskets
- Diffuser basket assures even heat distribution, faster drying with no cold spots
- Your choice of touch screen or ADC control
- Dryers rated at 1 CFM per hour. More air flow for faster drying of today and tomorrow’s resin
- Exclusive bag filter with blowback for reduced conveyance filter maintenance
- Ample room under the hopper for easy cleaning
- Your choice of 2 or 4 desiccant beds. 40-60% more energy efficient than Wheel dryers

Dri-Air vs. Wheel
Energy Comparison @ 200 lbs/hr
Cost Per Year @ 10¢ per kw/hr

- 2 Bed tower construction: $4,620
- 4 Bed tower construction: $7,980
- Wheel 9.5 kw: $4,620
- Dri-Air 5.5 kw: $7,980
HPD Series

More efficient, more air flow and lower dewpoints equal faster, more energy efficient drying than wheel and compressed air dryers. Dri-Air HPD dryers include our patented 4 bed dryer, drying hopper and optional closed loop loading systems, eliminating press/extruder mounted drying hoppers, for fast, safe material changes.

HPD-13

Dri-Air vs. Wheel
Energy Comparison @ 50 lbs/hr
Cost Per Year @ 10¢ per kw/hr

<table>
<thead>
<tr>
<th></th>
<th>Dri-Air 1.8 kw</th>
<th>Wheel 4.8 kw</th>
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</table>

HPD with integrated hopper loader

Integrated Hopper Loader

Available with PD dryers having our closed loop loading system. Brushless hopper loading eliminates noisy, maintenance-prone vacuum motors.

- One power connection
- Completely self-contained
- Available with single or proportioning (virgin/regrind) hopper loaders

Dri-Air Industries, Inc.
www.dri-air.com
Call us at 860.627.5110
Dri-Shot Loader

Convey dried material with dry-air, eliminating moisture contamination with compressed or ambient plant air. Closed loop loaders are available with portable dryers or as stand-alone units. Eliminate 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 magnet drawers

- SmartTouch Controller can communicate with SmartView interface for monitoring your dryers on your desktop

<table>
<thead>
<tr>
<th>HPD Model</th>
<th>Process Rate (lbs/hr) (kg/hr)</th>
<th>Hopper Capacity (lbs) (kg)</th>
<th>Dimensions (l/w/h) inch</th>
<th>Dimensions (l/w/h) cm</th>
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<tr>
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<td>127/107/234</td>
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<tr>
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<td>220 100</td>
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APD Series

Industry standard 2 bed dryer, hopper and optional loading systems. Dri-Air’s APD series dryers provide easy, reliable and safe material handling by eliminating press/extruder mounted drying hoppers for fast material changes.

- Energy efficient single blower design uses 40-60% less energy than wheel dryers
- Reliable, dual tower design with no moving parts
- -49˚F dewpoint levels for fast drying of engineering resins
- Includes -49˚F dewpoint monitor and 7 day timer
- No moving parts and stainless steel construction for reliable, trouble free operation

ADC Control System

- Our proven, time tested ADC control is standard on our APD dryers and includes, -49˚F dewpoint monitor, 7 day timer and diagnostic functions
- Spike Free Regeneration
  ADC controls feature temperature controlled regeneration. Thermocouples in the desiccant tower monitor and adjust the regeneration cycle, changing regeneration parameters as conditions change – the net result is substantial energy savings and spike free bed changeovers!

Loading Options

- Dri-Air closed loop loading eliminates moisture contamination with ambient plant air. Loader includes: brushless motor, controls and DS receiver
- DAC Compressed air loaders offer a quiet, easy to use loader that uses your shop air to convey material

### APD Portable Dryers

<table>
<thead>
<tr>
<th>APD Model</th>
<th>Process Rate (lbs/hr) (kg/hr)</th>
<th>Hopper Capacity (lbs) (kg)</th>
<th>Dimensions [l/w/h] inch</th>
<th>Dimensions [l/w/h] cm</th>
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<tr>
<td>3</td>
<td>25</td>
<td>12</td>
<td>25/39/60</td>
<td>64/99/152</td>
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<tr>
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<td>16</td>
<td>25/39/73</td>
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<td>76/152/213</td>
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<td>30/52/84</td>
<td>76/152/213</td>
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<tr>
<td>9</td>
<td>110</td>
<td>45</td>
<td>50/42/92</td>
<td>127/107/234</td>
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<tr>
<td>10</td>
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<td>50/42/112</td>
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<td>200</td>
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<td>50/42/112</td>
<td>127/107/284</td>
</tr>
</tbody>
</table>
Dri-Shot Loader

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

- Brushless blower for quiet, reliable operation
- Optional bag filter with blow back for dusty materials
- 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

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 750 lbs/hr. Larger sizes available

Airflow schematic of portable dryer with closed loop loading
4-Bed Dual Hopper Portable Dryers

1 dryer, 2 hoppers = fast changeovers and no downtime!

The H-PDII systems provide maximum flexibility.

- Drying and processing from one hopper while pre-drying in the other hopper for on the fly changeovers, eliminates downtime
- Material changes are fast and easy by moving the material line from one hopper to the other
- Reduce valuable floor space, eliminate the need for a second dryer by positioning the dryer between two presses/extruder – ideal for two shot injection molders

---

Ideal for frequent material changes the PDII dryer will eliminate downtime and maximize uptime!

System features

- Automatic shut off valves (inlet/outlet) isolate hoppers not in use or while being cleaned
- Easy to use touch screen display for setting different drying temperatures for each hopper
- Temperature set back (optional) prevents over drying by lowering drying temperatures when usage slows or stops
- Service two presses/extruders with our dual closed loop loader option

SMARTTOUCH Controls

- Our new SmartTouch Control is standard on our HPDII dryers and is Industry 4.0 ready! OPC/UA open communication through the optional Ethernet switch or WIFI Bridge for wireless communication. Other features include 7” HMI, -49°F dewpoint monitor, 7 day timer, resin library, dewpoint and temperature trending, alarms, diagnostics, event log, run and filter timers, 3 level password protection and optional temperature setback to prevent overdrying!

Loading Options

- Dri-Air closed loop loading eliminates moisture contamination with ambient plant air. Loader includes: brushless motor, controls and DS receiver
- DAC Compressed air loaders offer a quiet, easy to use loader that uses your shop air to convey material

---

Dimensions

<table>
<thead>
<tr>
<th>Hopper Sizes</th>
<th>(l/w/h) inch</th>
<th>(l/w/h) cm</th>
</tr>
</thead>
<tbody>
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<td>5, 15 &amp; 30-lb</td>
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<td>76/132/150</td>
</tr>
<tr>
<td>60, 100 &amp; 150-lb</td>
<td>35/63/82</td>
<td>89/160/208</td>
</tr>
<tr>
<td>200 &amp; 300-lb</td>
<td>35/67/82</td>
<td>89/170/208</td>
</tr>
</tbody>
</table>
Multiple Hoppers with One Dryer

One dryer connects to multiple hoppers for integrated, compact drying solutions or system can be configured for central conveyance.

- Dry different materials each at their own temperature
- Pre dry material for fast changeovers

Integrated, closed loop conveyance systems provide you with a complete central drying and conveyance system from 1 to multiple machines.

- Integrated Conveyance. Pump, filters and controls are all integrated into the hopper bank’s frame for easy installation and minimize floor space

Quick change Manifold system. Quickly change between materials or machines. A wide selection of manifolds are available for maximum flexibility so any machine can connect to any drying hopper

System features

- Hopper Sizes from 2-600 pounds with quantities up to 6 hoppers
- Air manifold with shut off vales (inlet/outlet) isolate hoppers not in use or being cleaned
- Contact us today for custom sizes and configurations

Hopper Bank Controls

- Our easy-to-use SmartTouch control features a 7” color HMI and provides you with:
  - 7 Day timer for each hopper – separate start / stop times for each hopper
  - Resin Library – User created temperatures and recipes for each hopper
  - Separate temperature control – run different temperatures in each hopper
  - Run timer – know how long each hopper has been on for
  - Pre-dry feature – prevents conveyance on hopper bank systems equipped with conveyance systems until pre-set times have been met – prevents wet material from being conveyed until it is thoroughly dried
  - Temperature Set Back option – prevents over drying
  - OPC/UA communication with optional Ethernet or WIFI bolt and SmartView Interface

Hopper Bank Series

Integrated Central Conveyance Systems

Integrated, closed loop conveyance systems provide you with a complete central drying and conveyance system from 1 to multiple machines.

- Integrated Conveyance. Pump, filters and controls are all integrated into the hopper bank’s frame for easy installation and minimize floor space

Four 30 pound hoppers

Six 30 pound hoppers

Hopper Bank with (2) 60 lb, (1) 30 LB. hopper and closed loop conveyance to three molding machines

www.dri-air.com
Call us at 860.627.5110
Dri-Shot Receivers

Dri-Shot Receivers include an internal flap for flexible mounting options on drying hoppers or machines.

- Standard features include an internal pellet screen and stainless steel construction
- Control box for on/off control at the press is included. Cable and connector for quick in field wiring to sequence T valve
- Sequence T valves provide the vacuum source for the receivers. Valves can be installed in a common manifold on the pump package, on the receiver, or on a common vacuum line

Dri-Air’s central loading systems are ideal for hopper, press and blender loading.

- Conveying power where you need it while eliminating maintenance prone brush type hopper loaders or expensive to operate compressed air loaders
- Sealed system keeps dust and fines in the filter and not throughout your plant!
- Central pump with filter + control panel are all incorporated into a compact floor frame

Central Loading Systems

Dust and fines are contained in the easy clean filter, not throughout your plant! Tool free filter access through quick release clamps.

Central control panel

- The color touch screen shows the operator at a glance receiver status: on, off, filling or alarm
- Fill times, no fill alarms and receiver activation are set up through easy to navigate set up screens
- Single and dual station control panels are also available for press and drying hopper loading

CL features

- Reliable, quiet operation
  - A reliable, high pressure regenerative blower provides years of trouble free service. Quiet operation allows you to locate the blower in a wide range of locations without an expensive sound enclosure
  - With the pump, filter and control panel on a common floor frame loading systems are ready to install, without the need of outside installation teams saving you time and money on start up
  - Difficult, moisture sensitive materials are not a problem with our optional closed loop dry-air conveyance with line purge... keeping material lines clear and resin moisture free!

Dri-Air’s central loading systems are ideal for hopper, press and blender loading.

- Conveying power where you need it while eliminating maintenance prone brush type hopper loaders or expensive to operate compressed air loaders
- Sealed system keeps dust and fines in the filter and not throughout your plant!
- Central pump with filter + control panel are all incorporated into a compact floor frame

Dri-Air Industries, Inc.

www.dri-air.com
Call us at 860.627.5110
**Central Drying Systems**

**One dryer connects to multiple hoppers for centralized, expandable drying system.**

- Centralized drying systems can be used with Dri-Air or other material handling systems for a complete, central drying and conveying system
- Individual hopper stands include booster heater, manifold with shut off valves
- Additional stands can be added as required for maximum flexibility

**Central Drying and Conveyance Systems**

**Combined with our Central loading systems our Central drying systems provide you with a complete, closed loop central drying and conveyance system from 1 to multiple machines.**

- **Closed loop Conveyance.** Dried resin is conveyed with dry air to prevent contamination. Pump, filters and controls are all integrated into the compact frame for easy installation and minimal floor space
- **Quick change Manifold system.** Let’s you quickly chose between hoppers and machines so one or more machines can pull dried material from any hopper

**System features**

- Air manifold with automatic shut off valves (inlet/outlet) isolate hoppers not in use or while being cleaned
- Modular bolt together systems from 60-2000 pounds hoppers and multiple hopper stand systems for hoppers from 5-300 pound hoppers
- Contact us today for custom sizes and configurations

**Loading Controls**

- Color touch screen allows for easy navigation of menus for setting load times and alarms

**Hopper Bank with (1) 300 lb, (2) 200 lb, (2) 30 lb and (1) 60 lb hoppers, dryer and 6 station conveyance system**
**FM Series**

**Energy efficiency:**
- Most energy efficient dryer in the market (when compared to compressed air, rotary wheel, vacuum and other dual bed dryers)
- Single blower design for process and regeneration air
- On-demand regeneration based on ambient conditions, materials and process rates – not a fixed time cycle!
- Desiccant tower design maximizes heat transfer
- -49˚F to -131˚F dewpoints as a slip stream of dry air, not ambient air is used for regeneration and cool down of desiccant towers

**Optional items include:**
- Space-saving compact design available for process rates up to 3000 lbs/hr
- Models are available in industry-standard 2-bed (ARID-X FM Series) and high-performance 4-bed (HP4-X FM Series)
- Combine with a press/extruder mounted drying hopper for a complete system – dryer hoses and casters are included

**FM features**
- Can be used with Hopper Bank Series and multi-hopper systems
- ADC Control is standard on the 2 bed ARID-X FM. Our HP4-X FM series dryers include our SmartTouch Control.
- Through the door disconnect and casters are standard on all models

**Optional items include:**
- Water after-cooler, plasticizer trap and high temperature hose
- Visual and audible alarms
- Temperature setback reduces drying temperature when material is dry to prevent overdrying

**ARID-X**

<table>
<thead>
<tr>
<th>Model</th>
<th>Process Rate (2-Bed) (lbs/hr)</th>
<th>Process Rate (4-Bed) (kg/hr)</th>
<th>Dimensions (l/w/h) inch</th>
<th>Hose Diameter</th>
<th>Supply Return</th>
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**HP4-X**

<table>
<thead>
<tr>
<th>Model</th>
<th>Process Rate (2-Bed) (lbs/hr)</th>
<th>Process Rate (4-Bed) (kg/hr)</th>
<th>Dimensions (l/w/h)</th>
<th>Hose Diameter</th>
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<td>101/54/74</td>
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**SmartTouch Control**
- Our new SmartTouch Control is standard on our HP4-X dryers and is Industry 4.0 ready! OPC/UA open communication through the optional Ethernet switch or WIFI Bridge for wireless communication.
RH Series

Uniform drying coupled with easy accessibility for cleaning are key to proper hopper design.

- Standard sizes range from 5 to 2000 lbs (2 to 907 kg); based on 35 lbs/ft*
- Unique diffuser basket dries resin down to the slide gate and allows for drying less than full hoppers
- Full length sight glass is standard on Models RH60 and larger

Diffuser basket is constructed of spun stainless steel with a slip coupling for easy removal

Laser-cut access doors provide a smooth, tight fit and eliminates troublesome gaskets

<table>
<thead>
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<th>Dri-Air Hopper Model</th>
<th>CAPACITY</th>
<th>D I M E N S I O N S</th>
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<tr>
<td>RH2000</td>
<td>2000</td>
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</tr>
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</table>

Note: RH5, RH15, and RH30 do not have access doors. *Larger hoppers available, consult factory.

Adjustable fill sensor option ties into hopper loader to accommodate varying process rates for maximum flexibility.
Hopper Mounted Desiccant Dryers

AHM dryers save valuable floor space by combining the dryer with the hopper – no compressed air required!

- Press/Extruder mounted dryers free up floor space and are available for process rates up to 40 lbs/hr
- Industry-standard 2-bed AHM dryer models from 2-4 feature our ADC Control as standard.

AHM Controls

- AHM-2-4 dryers include our easy to use ADC Control. The ADC control includes -49°F dewpoint monitor, 7 day timer, dewpoint, thermocouple and temperature alarms
- AHM-1 dryers include our ELC controller which includes set and actual temperatures and high temperature alarm
- AHM features:
  - Balanced design – reduces stress on feed throat
  - Optional items include: water after-cooler and plasticizer trap

ARID-X 10 Controls

- ADC Control includes:
  - -49°F dewpoint monitor
  - High temp alarm & shutdown
  - 7 day timer
  - Alarm history
  - Thermocouple alarms
  - Optional temperature setback prevents overdrying of materials

<table>
<thead>
<tr>
<th>Dri-Air Model</th>
<th>Process Rate (lbs/hr)</th>
<th>Hopper Dimensions [l/w/h] (inch/cm)</th>
<th>Capacity (lbs/kg)</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>AHM-1</td>
<td>10/5</td>
<td>22/21/28 56/53/71</td>
<td>30/14</td>
<td>110/1 phase</td>
</tr>
<tr>
<td>AHM-2</td>
<td>15/7</td>
<td>30/29/38 76/74/107</td>
<td>60/27</td>
<td>208, 230, 400, 460/1 or 3 phase</td>
</tr>
<tr>
<td>AHM-3</td>
<td>25/12</td>
<td>30/29/39 76/74/96.5</td>
<td>100/45</td>
<td>208, 230, 400, 460/1 or 3 phase</td>
</tr>
<tr>
<td>AHM-4</td>
<td>35/16</td>
<td>30/29/51 76/76/130</td>
<td>150/70</td>
<td>208, 230, 400, 460/1 or 3 phase</td>
</tr>
</tbody>
</table>

Arid-X 10 Mini Dryer

Ideal for lab, insert and small molding machines – no compressed air required!

- Space saving, compact design, only 21 inches (54 cm) high and weighs only 70 lb (32kg)
- Fast drying with the industry’s smallest two bed dryer
- Processing rates up to 10 lbs/hr (5 kg/hr)
- Dimensions 11 x 18 x 21 inches (28 x 46 x 54 cm)
- Available in 110 or 220 volts phase

Available with 5,15, & 30-lb capacity drying hoppers
Desiccant Mini PD Portable Dryers

The Mini PD dryers are ideal for small press/extruders with the dryer and hopper on a compact, castered floor frame. Optional DAC compressed air loaders provide easy, safe changeovers eliminating press mounted drying hoppers.

MPD-15D w/ ADC Control

<table>
<thead>
<tr>
<th>Model</th>
<th>Process Rate (lbs/hr)</th>
<th>Model Dimensions (l/w/h)</th>
<th>Hopper Size (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MPD-5D</td>
<td>2</td>
<td>25x18x26</td>
<td>5</td>
</tr>
<tr>
<td>MPD-15D</td>
<td>5</td>
<td>25x18x33</td>
<td>15</td>
</tr>
<tr>
<td>MPD-30D</td>
<td>10</td>
<td>25x18x38</td>
<td>30</td>
</tr>
</tbody>
</table>

Available in 110 or 220 volt single phase electrics

DAC Compressed Air Loaders

DAC loaders offer you a complete portable drying solution.

- Powered by shop air, the DAC loader provides you with a quiet, reliable trouble free loading solution
- Excellent for loading applications such as:
  - Material loading from DRI-AIR PD systems
  - As a stand alone unit pulling from bags, gaylords

Sold complete with wand, hoses, air transvector and adapter

<table>
<thead>
<tr>
<th>DAC Model</th>
<th>Application</th>
<th>Adapter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAC-1</td>
<td>Molding Machine</td>
<td>6&quot; x 6&quot;</td>
</tr>
<tr>
<td>DAC-2</td>
<td>Dry hopper</td>
<td>3.5&quot; x 3.5&quot;</td>
</tr>
<tr>
<td>DAC-3</td>
<td>Dry hopper 5 &amp; 15 lb.</td>
<td>4&quot; x 4&quot;</td>
</tr>
</tbody>
</table>

Mini PD Controls

- ADC Control includes:
  - -49°F dewpoint monitor
  - High temp alarm & shutdown
  - 7 day timer
  - Alarm history
  - Thermocouple alarms

Available Options:
- Water cooled after coolers for high temperature applications (over 250°F - 120°C)
- Temperature Set Back prevents over drying of materials

Dri-Air Industries, Inc.
www.dri-air.com
Call us at 860.627.5110

Mini PD Dryers – Desiccant
Compressed Air Hopper Mount Dryers

CAHM dryers are compact, easy to use dryers that use your plant air to dry material.

- Press/Extruder mounted dryers free up floor space and are available for process rates up to 15 lbs/hr
- Dri-Pak membrane provides -40°F dewpoints from your plant’s compressed air for fast drying of hygroscopic resins

Low Maintenance:
- With no moving parts the CAHM series dryers is ideal for low throughput/small press and extruder applications with a simple, easy to use trouble free design
- Can operate from high (350°F) to low drying temperatures without the need for water cooled after-coolers

CAHM-1 w/ ADC Control

<table>
<thead>
<tr>
<th>Dri-Air Model</th>
<th>Process Rate (lbs/hr) (kg/hr)</th>
<th>Hopper Dimensions [l/w/h] [inch/cm]</th>
<th>Capacity (lbs/kg)</th>
<th>Compressed Air Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAHM-1</td>
<td>10/5</td>
<td>22/21/28/56/53/71</td>
<td>30/14</td>
<td>2.5 cfm</td>
</tr>
<tr>
<td>CAHM-2</td>
<td>15/7</td>
<td>30/29/42/76/74/107</td>
<td>60/27</td>
<td>2.5 cfm</td>
</tr>
</tbody>
</table>

110 or 220 volt 1 phase electrics, 100 psi clean compressed air required

Compressed Air Micro & Floor Mount Dryers

The CAFM Series dryers are easy to use dryers that uses your plant air and internal Dri-Pak membrane to ensure -49°F dewpoint air at the hopper.

- Also available as a Nitrogen Dryer for drying resins in an oxygen free environment

CAMD-1 with ADC Control & 2 lb and 1/3 lb hopper

<table>
<thead>
<tr>
<th>Dri-Air Model</th>
<th>Process Rate (lbs/hr) (kg/hr)</th>
<th>Dryer Dimensions [l/w/h] [inch/cm]</th>
<th>Booster Heater</th>
<th>Compressed Air Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAMD</td>
<td>2/1</td>
<td>11/18/21/28/46/54</td>
<td>external</td>
<td>0.25 – 2 cfm</td>
</tr>
<tr>
<td>CAFM</td>
<td>10/5</td>
<td>11/18/21/28/46/54</td>
<td>internal</td>
<td>0.25 – 2 cfm</td>
</tr>
</tbody>
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110 or 220 volt 1 phase electrics, 100 psi clean compressed air required
Compressed Air Mini PD Portable Dryers

The Mini PD dryers are ideal for small press/extruders with the dryer and hopper on a compact, castered floor frame. Optional DAC compressed air loaders provide easy, safe changeovers eliminating press mounted drying hoppers.

MDP-15C w/ ADC Control

<table>
<thead>
<tr>
<th>Dri-Air Model</th>
<th>Process Rate (lbs/hr) (kg/hr)</th>
<th>Model Dimensions (l/w/h) cm</th>
<th>Hopper Size (lbs) (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MDP-5C</td>
<td>2 1</td>
<td>25x18x26</td>
<td>5 2</td>
</tr>
<tr>
<td>MDP-15C</td>
<td>5 2</td>
<td>25x18x33</td>
<td>15 7</td>
</tr>
<tr>
<td>MDP-30C</td>
<td>10 5</td>
<td>25x18x38</td>
<td>30 14</td>
</tr>
</tbody>
</table>

Available in 110 or 220 volt single phase electrics

DAC Compressed Air Loaders

DAC loaders offer you a complete portable drying solution.

- Powered by shop air, the DAC loader provides you with a quiet, reliable trouble free loading solution
- Excellent for loading applications such as:
  - Material loading from DRI-AIR PD systems
  - As a stand alone unit pulling from bags, gaylords

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<th>Dri-Air Model</th>
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<td>6&quot; x 6&quot;</td>
</tr>
<tr>
<td>DAC-2</td>
<td>Drying hopper</td>
<td>3.5&quot; x 3.5&quot;</td>
</tr>
<tr>
<td>DAC-3</td>
<td>Drying hopper 5 &amp; 15 lb.</td>
<td>4&quot; x 4&quot;</td>
</tr>
</tbody>
</table>

Sold complete with wand, hoses, air transvector and adapter

Mini PD Controls

- ADC Control features: alpha numeric display, -49°F dewpoint monitor, 7 day timer, alarm history, high temp alarm, thermocouple alarms and optional temperature set back to prevent over drying of resins. Communication options via Ethernet or USB connection

Mini PD Dryers – Compressed Air

Compact Size:
- The Mini PD portable dryer replaces press mounted drying hoppers so material changes can be made off the press/extruder. Dryers can be staged outside the molding area for preparation for the next material run, eliminating downtime on material changeovers

Conveyance to the press:
- Our DAC compressed air loader provides quiet, reliable transfer of dried materials to the press/extruder

CAMD Dryer:
- With no moving parts the compressed air dryers are ideal for low throughput/small press and extruder applications with a simple, easy to use trouble free design
- Can operate from high (350°F - 175°C) to low (80°F - 25°C) drying temperatures without the need for water cooled after coolers. Hoppers are available from 5, 15 & 30 pound capacity
- The Dri-Pak membrane ensures low dewpoint air to dry the toughest materials such as PLA’s, Isoplast, Ulterns
**Two Component On-Demand Dry, Blend and Convey**

A combination of virgin (natural) and regrind processed in one system.

- Simultaneous dispensing of materials provides superior shot-to-shot consistency – no separation, no batches, no layering
- Dry regrind materials at different temperatures than virgin materials
- Eliminate additional blending equipment to increase floor space

---

**System features**

- Cleanout on every load cycle eliminates blended materials in conveying line
- Adjust regrind ratios on-the-fly
- Resins remain separate – no scrapped virgin material due to contaminated regrind
- Eliminate layered materials, typical of proportional loaders

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**PD Colorant Blending System**

**Blend-Dry-Convey Colorant & Virgin Material.**

- Off the press colorant blending system eliminates press mounted color feeders
- Our Dri-Shot receiver is the only press mounted component

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**System features**

- Ability to dry colorant, preventing moisture issues
- Easily moved from 1 press/extruder to another – not tied into screw recovery/following circuits
- System can be located outside molding area (from 100 feet and beyond) – no separation of colorant/regrind as materials are dispensed into a moving stream of dry air
Three Component On-Demand Dry, Blend and Convey

A combination of virgin (natural), regrind and colorant processed in one system.

- Simultaneous dispensing of materials provides superior shot-to-shot consistency – no separation, no batches, no layering
- Dry colorants/virgin and regrind materials at different temperatures

Model with Virgin, Regrind and Colorant Blending

SMARTTOUCH Controls

- Our new SmartTouch Control is standard on our HPDII dryers and is Industry 4.0 ready! OPC/UA open communication through the optional Ethernet switch or WIFI Bridge for wireless communication. Other features include 7” HMI, -49°F dewpoint monitor, 7 day timer, resin library, dewpoint and temperature trending, alarms, diagnostics, event log, run and filter timers, 3 level password protection and optional temperature setback to prevent overdrying!

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A Molding Machine or Extruder
B Flap Valve
C Dri-Shot Receiver
D Vacuum Line
E Material Line
F Regrind Hopper
G Fixed Rate Auger
H Minor Component Hopper (Colorant/Additive)
I Virgin (Natural) Hopper
J Variable Rate Auger(s)
K V-Box with Access Door
L Loader Filter
M Integrated Control Panel
N HPD (4-Bed) Dryer Enclosure with Individual Hopper Heaters
O Vortex Loader Blower
Integral hopper loaders reduce labor and resin waste with self contained ready to install loading systems for virgin and regrind materials

**VL Series Loaders**

**VL Series** integral loaders feature stainless steel construction, brush type motor & filter blow back for reduces filter maintenance. They also include:

- Remote Mount Mini PLC control
- “No load” alarm with silencer button
- Modular design for quick cleanout and material changeover
- Automatic pulsed blowback filter cleaning with accumulator

---

**GSL Series Loaders**

**GSL Series** integral loaders feature stainless steel construction and brushless motors with a tilt open easy clean design. They also include:

- Remote Mount Control Pendant
- SureSeal flapper valve with SS seal surfaces stay aligned and resist wear for reliable operation
- Microburst pulsed blowback filter cleaning keeps filter clean

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### Loader Options

- Machine mount adapters for direct mounting of loaders to feed throat available in a wide range of size
- Blend in regrind materials with external proportioning valve available for VL & GSL loaders

---

### Dri-Air Model

<table>
<thead>
<tr>
<th>Dri-Air Model</th>
<th>VL-5</th>
<th>VL-12</th>
<th>VL-19</th>
<th>VL-38</th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume (ft³)</td>
<td>1/8</td>
<td>1/3</td>
<td>1/2</td>
<td>1.0</td>
</tr>
<tr>
<td>Resin Capacity (lb)</td>
<td>5</td>
<td>12</td>
<td>19</td>
<td>38</td>
</tr>
<tr>
<td>Recommended Throughput (lb/hr)</td>
<td>200</td>
<td>400</td>
<td>500</td>
<td>650</td>
</tr>
<tr>
<td>Amps @115V</td>
<td>8</td>
<td>13</td>
<td>13</td>
<td>13</td>
</tr>
</tbody>
</table>

*, ** Resin capacity and throughputs are based on 38 lb./ft³ proportioning valves, length of runs, bends flex hose and vertical travel will reduce throughput and motor life.