Our vacuum dryers are proven to dry plastics materials 6 times faster than conventional dryers.

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A revolution in dryers

Maguire Vacuum dryers are proven to dry plastics materials 6 times faster than conventional dryers and use up to 85% less energy.

Speed of Drying
Typically the vacuum dryer will dry materials in one-sixth the time of a desiccant dryer. If your desiccant dryer drying time is 4 hours, the vacuum dryer will do the job in 40 minutes. The result is time-savings of 3 hours and 20 minutes every time you start up a dryer. This not only represents reduced energy cost, but could also represent 3 hours and 20 minutes of additional production time.

Desiccant Dryer – drying time
0 – 4 hours

Maguire Vacuum Dryer – drying time
0 – 40 mins

Energy Savings
Side-by-side testing of the vacuum dryer and a desiccant dryer shows reduced energy consumption of 70 - 85%. The key to the reduced energy consumption is that the vacuum dryer does not rely on desiccant. Desiccant, once saturated, must be regenerated by a heating and cooling process so it will again be able to absorb moisture. All energy required to regenerate desiccant is lost to ambient.

Typically the vacuum dryer will dry materials in one-sixth the time of a desiccant dryer.

85% reduction in energy use
83% reduction in drying time
A revolution in dryers

Maguire Vacuum dryers are proven to dry plastics materials 6 times faster than conventional dryers and use up to 85% less energy.

**Speed of Drying**

**Reduced Maintenance**

**Reduced Maintenance**

Since desiccant degrades over time it must be replaced on a regular basis. This expense is avoided with a vacuum dryer. In addition the need to monitor the condition of desiccant is eliminated.

**Low Material Stress**

Long drying times at elevated temperatures can cause thermal, chemical and physical material degradation. Materials if exposed to prolonged elevated temperature during drying run the risk of degradation including discoloration and/or IV drop which leads to reduced physical properties of the end product.

The reduced drying time required with the vacuum dryer dramatically reduces the risk of material degradation. Since the vacuum dryer first heats up the material, then applies vacuum to accomplish drying, the heating cycle is only 20 to 30 minutes.
VBD Vacuum Dryer

Improved design obsoletes moving canisters and minimizes moving parts.

- Continuous batch drying process.
- -40° dew point air is bled into vacuum and retention hoppers.
- Vertical design minimizes footprint.
- No heat loss is guaranteed with double-insulation on all vessels.
- Reduced Maintenance – no desiccant to change – no filters to clean.
- Faster drying improves production planning.
- “No stress” material drying – means no material degradation.
- Process temperatures up to 360°F (190°C).
- Vacuum take-off or gravity feed material discharge available.
- Backed by same 5-year warranty as all Maguire products.

- Low maintenance
- Dry up to 1000 lb per hour in 1/6 of the time
- 50% less energy than desiccant dryers

View Model VBD-150 Click Here
VBD Vacuum Dryer

Improved design obsoletes moving canisters and minimizes moving parts.

MODEL VBD-150

The VBD-150 offers the same fast and economical drying as the VBD-1000. It is mounted on a rigid frame with a footprint of only 5.5 sq. ft. Large casters allow it to be quickly moved around the plant.

The vacuum vessel and retention hopper are easily removed for cleaning.

• Continuous batch drying
• -40° dew point air is bled into vacuum and retention hoppers.
• Vertical design minimizes footprint.
• No heat loss is guaranteed with double-insulation on all vessels.
• Reduced Maintenance – no desiccant to change – no filters to clean.
• Faster drying improves production planning.
• “No stress” material drying – means no material degradation.
• Process temperatures up to 360°F (190°c).
• Vacuum take-off or gravity feed material discharge available.
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VBD Vacuum Dryer

OVerview

Our dryers are proven to dry all types of polymers in a fraction...

A Revolution in Dryers

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LPD Vacuum Dryer

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5 Year Warranty

Maguire Products offers one of the most comprehensive warranties in the plastics industry.
LPD Vacuum Dryer

Proven technology with over 2400 LPD installed globally.

The LPD-30 Dryer is part of the first series of Vacuum Drying Systems from Maguire, a range with over 2,400 dryers installed worldwide.

Whilst larger kg/h applications benefit from the new design of the VBD series, for small kg/h technical drying requirements the LPD-30 remains the standard solution given how popular the system design has been for a range of tool making and prototyping processes.

A key attraction of the 3 canister standard design is the fact that multiple materials can be processed through the dryer in sequence – in the form of on-the-fly material changes.

**On-The-Fly Material Change**

- Since the vacuum dryer dries in batches a material or color change can be accomplished on-the-fly.
- This means no downtime related to clean-out of the drying hopper during a material change.
- Every time you have a material change with a desiccant dryer the dryer must be shutdown and the drying hopper cleaned. This is normally a time consuming and labor-intensive process.
- The LPD vacuum dryer will automatically notify the operator when it’s time to conduct an on-the-fly material change.
- No interruption of the drying process occurs during the on-the-fly material change.
- This makes the LPD-30 size and portability ideal for tool makers and rapid prototyping, alongside small technical moulding also.

No interruption of the drying process occurs during the on-the-fly material change.
3 Stage drying process

The dryer operates in a 3 step process and the material goes through the drying steps accordingly.

**STAGE 1**

Material in the heating hopper is brought to set point by means of a centrifugal blower through a 40 Kw heating element. The requested heating temperature is adjusted on the control panel and the cycle lasts 45 minutes (60 minutes for PET).

**STAGE 2**

Upon reaching the desired set point, heated material is discharged from the heating hopper into the vacuum vessel. The vacuum is brought to 75mm Hg absolute pressure and held to a 20mm Hg differential for the set cycle time. The vacuum cycle typically lasts for about 20 minutes so you have ready-to-process material in 65 - 80 minutes.

**STAGE 3**

The dried material is discharged into an insulated retention / take-off hopper for consumption. A positive pressure heated dry air purge is maintained on the material.
3 Stage drying process

The dryer operates in a 3 step process and the material goes through the drying steps accordingly.

**STAGE 1**
Material in the heating hopper is brought to set point by means of a centrifugal blower through a 40 Kw heating element. The requested heating temperature is adjusted on the control panel and the cycle lasts 45 minutes (60 minutes for PET).

**STAGE 2**
Upon reaching the desired set point, heated material is discharged from the heating hopper into the vacuum vessel. The vacuum is brought to 75mm Hg absolute pressure and held to a 20mm Hg differential for the set cycle time. The vacuum cycle typically lasts for about 20 minutes so you have ready-to-process material in 65 - 80 minutes.

**STAGE 3**
The dried material is discharged into an insulated retention/take-off hopper for consumption. A positive pressure heated dry air purge is maintained on the material.

See how the LPD system works ➤ Click Here
Controllers

Simple is better
No confusing icons

- Four buttons provide access for setting operation mode, adjusting dryer parameters and many additional program functions.
- The controller monitors numerous alarm conditions to ensure proper performance. Comparable to a dew point monitor, vacuum level is always monitored to ensure proper vacuum level is maintained.
- Alarms are shown on the display and signaled by an alarm light and horn with silence function.
- As an aid to monitoring dryer performance and documenting operation reports can be generated via a USB port to either a memory stick or printer. A printer port is provided on the LPD controller.
- Program updates via flash memory using a standard USB memory device.
- The display will indicate temperature and elapsed cycle time or, alternatively, temperature and vacuum level. If a problem occurs during operation an alarm strobe and horn will be activated and the nature of the problem will be indicated on the display.
- The controller can be easily removed for service or replacement. If you have a controller problem a complete new control panel may be installed in minutes.
Technical Specification

<table>
<thead>
<tr>
<th>Model</th>
<th>LPD-30</th>
<th>VBD-150</th>
<th>VBD-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>U.S.</td>
<td>Metric</td>
<td>U.S.</td>
</tr>
<tr>
<td>Maximum Throughput</td>
<td>up to 30 lb/hr</td>
<td>up to 15 Kg/hr</td>
<td>up to 200 lb/hr</td>
</tr>
<tr>
<td>Heating Hopper Volume</td>
<td>0.32 cu ft</td>
<td>9 L</td>
<td>76 lb (2 ft³)</td>
</tr>
<tr>
<td>Vacuum Vessel Volume</td>
<td>0.32 cu ft</td>
<td>9 L</td>
<td>38 lb (1 ft³)</td>
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<tr>
<td>Retention Hopper Volume</td>
<td>0.32 cu ft</td>
<td>9 L</td>
<td>50 lb (1.3 ft³)</td>
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<tr>
<td>Max. Temperature</td>
<td>360°F</td>
<td>190°C</td>
<td>360°F</td>
</tr>
<tr>
<td>Power Supply</td>
<td>460V/3Ph/60Hz 3.47 kW / 16 A&lt;br&gt;3.47 kW / 16 A</td>
<td>400V/3Ph/50Hz 3.47 kW / 16 A&lt;br&gt;.82 KW, 2973 L/min 10 HP, 600 scfm</td>
<td>480V/3ph/60Hz 100 A Service 100 A Service</td>
</tr>
<tr>
<td>Process Heater</td>
<td>3 KW</td>
<td>6 KW</td>
<td>40 KW</td>
</tr>
<tr>
<td>Blower</td>
<td>0.5 hp / 2.5 A</td>
<td>0.37 kW / 2.5 A</td>
<td>1.1 HP, 105 scfm</td>
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<tr>
<td>Compressed Air Pressure</td>
<td>70-90 psi</td>
<td>6 - 8 bar</td>
<td>80 psi</td>
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<tr>
<td>Compressed Air Usage</td>
<td>0.4 cfm</td>
<td>0.7 m³/h</td>
<td>12.5 ft³/hr</td>
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<tr>
<td>Product Weight</td>
<td>550 lb</td>
<td>250 Kg</td>
<td>501 lb</td>
</tr>
</tbody>
</table>

Energy Usage Comparison

**Dual Bed Desiccant Dryer vs. Maguire VBD-1000 Vacuum Dryer**

Drying 1000 lb/hr (454 kg/hour) of each of the following resins

<table>
<thead>
<tr>
<th>Resin</th>
<th>Dual Bed</th>
<th>VBD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nylon @ 170°F (77°C)</td>
<td>watts/Kg/hr</td>
<td>watts/Kg/hr</td>
</tr>
<tr>
<td>Electrical consumption only</td>
<td>81.8</td>
<td>30.6</td>
</tr>
<tr>
<td>Compressed air generation electrical requirement for 9.8 SCFM</td>
<td>8.1</td>
<td></td>
</tr>
<tr>
<td><strong>TOTAL True Energy Consumption</strong></td>
<td>81.8</td>
<td>38.9</td>
</tr>
<tr>
<td><strong>ENERGY SAVINGS 53%</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PET @ 300°F (148°C)</td>
<td>watts/Kg/hr</td>
<td>watts/Kg/hr</td>
</tr>
<tr>
<td><strong>TOTAL True Energy Consumption</strong></td>
<td>130.2</td>
<td>52.8</td>
</tr>
<tr>
<td><strong>ENERGY SAVINGS 60%</strong></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Technical Specification**

**VBD-1000**
- **Maximum Throughput**: Up to 1000 lb/hr (up to 455 Kg/hr)
- **Heating Hopper Volume**: 1200 lb (26 ft³) 544 Kg (735 L)
- **Vacuum Vessel Volume**: 1200 lb (26 ft³) 180 Kg (297 L)
- **Retention Hopper Volume**: 1200 lb (26 ft³) 180 Kg (297 L)
- **Max. Temperature**: 370°F (185°C)
- **Power Supply**: 480V/3ph/60Hz 100 A Service
- **Process Heater**: 40 KW
- **Blower**: 10 HP, 600 scfm (7.5 KW, 16990 L/min)
- **Compressed Air Pressure**: 80 psi (5.5 bar)
- **Compressed Air Usage**: 169 ft³/hr (4757 L/hr)
- **Product Weight**: 2500 lb (1135 Kg)

**VBD-150**
- **Maximum Throughput**: Up to 1000 lb/hr (up to 455 Kg/hr)
- **Heating Hopper Volume**: 1200 lb (26 ft³) 544 Kg (735 L)
- **Vacuum Vessel Volume**: 1200 lb (26 ft³) 180 Kg (297 L)
- **Retention Hopper Volume**: 1200 lb (26 ft³) 180 Kg (297 L)
- **Max. Temperature**: 370°F (185°C)
- **Power Supply**: 480V/3ph/60Hz 100 A Service
- **Process Heater**: 40 KW
- **Blower**: 10 HP, 600 scfm (7.5 KW, 16990 L/min)
- **Compressed Air Pressure**: 80 psi (5.5 bar)
- **Compressed Air Usage**: 169 ft³/hr (4757 L/hr)
- **Product Weight**: 2500 lb (1135 Kg)

**LPD-30**
- **Throughput**: Standard version max. 265 °F 130 °C
- **Vacuum Canister Volume**: 0.32 cu ft 9 l
- **Empty Weight**: 550 lb 250 Kg
- **Packing Weight**: 620 lb 280 Kg
- **Packing Dim. (L x W x H)**: 40" x 35" x 75" 100 x 90 x 190 cm
- **Heater Element**: 3 kW / 13 A
- **Blower**: 0.5 hp / 2.5 A 0.37 kW / 2.5 A
- **Total Power Supply**: 460V/3Ph/60Hz 3.47 kW / 16 A
- **Compressed Air Requirement**: 70-90 psi 6 - 8 bar
- **Compressed Usage**: 0.4 cfm 0.7 m³/h

**Energy Comparison**
- **PET at 300°F (148°C)**
  - **Total True Energy Consumption**: 130.2 watts/Kg/hr 52.8 watts/Kg/hr
  - **Energy Savings**: 53%

- **MAX at 300°F (148°C)**
  - **Total True Energy Consumption**: 130.2 watts/Kg/hr 52.8 watts/Kg/hr
  - **Energy Savings**: 60%

**Contact**
Find out where your nearest Maguire Partner is located...

**5 Year Warranty**
Maguire Products offers one of the most comprehensive warranties in the plastics industry.
OVERVIEW
Our dryers are proven to dry all types of polymers in a fraction...

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The dryer operates with 3 stainless steel canisters that are mounted...

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KEY TO LOCATIONS
- M: Regional Head Offices
- ●: Maguire Branches
- ●: Maguire Partners

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OVERVIEW
Our dryers are proven to dry all types of polymers in a fraction of the time.

CONTACT
Find out where your nearest Maguire Partner is located.

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5-YEAR WARRANTY
Maguire Products offers one of the most comprehensive warranties in the plastics industry. We warrant all Maguire equipment to be free from defects in material and workmanship for 5 years from the date of delivery. In addition, we are committed to satisfying our customers in whatever manner is deemed most expedient to overcome any problems they may have in connection with Maguire equipment.
**OVERVIEW**

Our dryers are proven to dry all types of polymers in a fraction of time compared to conventional systems.

**HOW IT WORKS**

The dryer operates with 3 stainless steel canisters that are mounted in a drying tower. The canisters are rotated and heated in a continuous cycle to ensure uniform drying of the polymer.

**MODEL SUMMARY**

View our full technical specification and energy usage comparison online.

**CONTACT**

Find out where your nearest Maguire Partner is located.

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### Key to Locations

- **Regional Head Offices**
- **Maguire Branches**
- **Maguire Partners**

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### South America

#### Partners

<table>
<thead>
<tr>
<th>Country</th>
<th>Address</th>
<th>Contact Details</th>
<th>Website</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brazil</td>
<td>ALIMATIC LTDA</td>
<td>Tel: (+55) 11-44733711</td>
<td><a href="http://www.alimatic.com">www.alimatic.com</a></td>
</tr>
<tr>
<td>Chile</td>
<td>PLASTEC U.S.A. INCORPORATED</td>
<td>Tel: (1-305) 883-8254</td>
<td><a href="http://www.plastecusa.com">www.plastecusa.com</a></td>
</tr>
<tr>
<td>Mexico, Central &amp; South America</td>
<td>PLASTEC U.S.A. INCORPORATED</td>
<td>Tel: (1-305) 883-8254</td>
<td><a href="http://www.plastecusa.com">www.plastecusa.com</a></td>
</tr>
<tr>
<td>Puerto Rico &amp; Caribbean</td>
<td>PLASTEX</td>
<td>Tel: 787-272-8050</td>
<td><a href="http://www.plastexcorp.com">www.plastexcorp.com</a></td>
</tr>
<tr>
<td>Venezuela</td>
<td>PLASTEC U.S.A. INCORPORATED</td>
<td>Tel: (1-305) 887-6820</td>
<td><a href="http://www.plastecusa.com">www.plastecusa.com</a></td>
</tr>
</tbody>
</table>

---

### How it Works

The dryer operates with 3 stainless steel canisters that are mounted in a drying tower. The canisters are rotated and heated in a continuous cycle to ensure uniform drying of the polymer.

---

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Find out where your nearest Maguire Partner is located.

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Find out where your nearest Maguire Partner is located.

5 YEAR WARRANTY
Maguire Products offers one of the most comprehensive warranties in the plastics industry. We warrant all Maguire equipment to be free from defects in material and workmanship for 5 years from the date of delivery. In addition, we are committed to satisfying our customers in every manner deemed most expedient to overcome any problems they may have in connection with Maguire equipment.

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Document #1013-VBD
OVERVIEW
Our dryers are proven to dry all types of polymers in a fraction... 

HOW IT WORKS
The dryer operates with 3 stainless steel canisters that are mounted... 

MODEL SUMMARY
View our full technical specification and energy usage comparison... 

CONTACT
Find out where your nearest Maguire Partner is located... 

PRODUCT GUIDE
Materials Drying

OVERVIEW
Our dryers are proven to dry all types of polymers in a fraction of the time. 

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OVERVIEW
Our dryers are proven to dry all types of polymers in a fraction of the time compared to steam and other thermal drying methods in the plastics industry.

HOW IT WORKS
The dryer operates with 3 stainless steel canisters that are mounted on a rotating hub. When an element is removed for cooling or cleaning, the dryer automatically compensates for the reduced heat capacity.

MODEL SUMMARY
View our full technical specification and energy usage comparison for each model.

CONTACT
Find out where your nearest Maguire Partner is located.

5-YEAR WARRANTY
Maguire Products offers one of the most comprehensive warranties in the plastics industry. We warrant all Maguire equipment to be free from defects in material and workmanship for 5 years from the date of delivery. In addition, we are committed to satisfying our customers in whatever manner is deemed most expedient to overcome any problems they may have in connection with Maguire equipment.

Contact Maguire Products today to learn more about how our dryers can improve your production process.

Maguire Products offers one of the most comprehensive warranties in the plastics industry. We warrant all Maguire equipment to be free from defects in material and workmanship for 5 years from the date of delivery. In addition, we are committed to satisfying our customers in whatever manner is deemed most expedient to overcome any problems they may have in connection with Maguire equipment.

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OVERVIEW
Our dryers are proven to dry all types of polymers in a fraction of the time required by other dryers.

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