Hot Air Dryers

The HAD series of Maguire hot air dryers are particularly designed for the drying of non-hygroscopic thermoplastic granular materials.

Non-hygroscopic materials are polymers which do not adsorb moisture within the granules, but, hold the moisture on the granule surface, trapping a relatively small amount of humidity. However, the processing of plastic materials with the presence of water moisture, may seriously affect the process and hence, the final product quality. An HAD unit has a blower that sucks in ambient air and blows it into a process heating chamber to heat it up to a set working temperature.

This heated process air, is then blown into a drying hopper containing the non-hygroscopic polymer, where, the hot air flows from the bottom to the top of the hopper, the hot air passes over the surface of the granules, heating them up and removing the moisture from the granule surface and evaporating it in the hot air stream. The return air is filtered through an air cartridge paper filter. After successfully removing the surface moisture, the moist laden air can either be totally exhausted into the atmosphere or partially returned into the incoming ambient air with consequent energy savings.
## Hot Air Dryers

### Product Overview

**Standard Features**

**Stainless Steel Insulated Drying Hopper**
With glass-fibre insulation, also supplied with a built-in hot air diffuser cone.

**Microprocessor Control**
Fitted with 3-digits display and keypad for easy working and setting operations. The control acts with high precision PID electronic process for hot air temperature control.

**Daily/Weekly Timer**
Standard in all models.

### Model Summary

<table>
<thead>
<tr>
<th>Model</th>
<th>Airflow m³/h</th>
<th>Max. Temperature °C</th>
<th>Heat. Power kW</th>
<th>Blow. Power kW</th>
<th>Total Power kW</th>
<th>Voltage V/Hz</th>
<th>Volume dm³</th>
<th>Weight kg</th>
</tr>
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<tbody>
<tr>
<td>30</td>
<td>70</td>
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Please note: Maguire reserve the right to update specifications and range without direct notification in print.
Dehumidifiers DAC Series

Small compressed air dryers, equipped with two cartridges of molecular sieves, in which air flow is alternately exchanged from one tower to the other one.

DAC dryers enhance great performances in the treatment of hygroscopic engineering materials. The series includes 4 sizes of dryers, covering a capacity from 6 to 100 dm³, suitable to carry out throughputs up to 25 Kg/h. These small dryers take advantage from both the effusion of compressed air onto the atmospheric pressure and from the treatment of compressed air by means of molecular sieves, in order to reach Dew Point values to -25 °C up to -50°C. DAC series dryers are ideal to be installed directly on the top of small and medium injection moulding machines, representing also a liable solution in the medical sphere, thanks to the set of dedicated applications.

Important advantages of the standard version

**SETUP**
Easier setup, setting only two parameters (material type & machine hourly consumption)

**MOULD MAINTENANCE**
Mould maintenance cycles reduced of 30%

**ANTI-STRESS DEVICE**
Automatic anti-stress device, enable to parcel process air, preventing overheating of material granules resident inside the hopper, as well as energy and compressed air wasting (see diagram)
Dehumidifiers DAC Series

Product Overview

Standard Features

**DRYING TIME MANAGEMENT VALVE**
With automatic setting of airflow, according to the material throughput (see diagram on previous page)

**COMPACT DRYERS**
Suitable to be installed directly on the top of IMM

**TWIN TOWERS**
With molecular sieves

**“ANTI-STRESS” DEVICE INTEGRATED**
In order to prevent and avoid material deterioration and to reduce energy and compressed air consumption

<table>
<thead>
<tr>
<th>Feature</th>
<th>DAC6</th>
<th>DAC15</th>
<th>DAC30</th>
<th>DAC50</th>
<th>TURBO DAC75</th>
<th>TURBO DAC100</th>
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<td>0.65</td>
<td>0.95</td>
<td>0.95</td>
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<td>6-8</td>
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<tr>
<td>Power supply (V/Hz)</td>
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<td>230/1/50-60</td>
<td>230/1/50-60</td>
<td>230/1/50-60</td>
<td>230/1/50-60</td>
<td>230/1/50-60</td>
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<td>439x360x605</td>
<td>483x416x678</td>
<td>531x457x808</td>
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<td>667x675x1179</td>
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<td>16</td>
<td>20</td>
<td>23</td>
<td>58</td>
<td>62</td>
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Options

- HC HAND CONTROL
- DEW POINT DEVICE INTEGRATED
- PORTABLE DEW POINT DEVICE
- VENTURI FEEDER
- PYREX BASE (DAC6 -15)
- BASE WITH DISCHARGE (DAC30-50)
- MEDICAL VERSION
- CARBON FILTER FOR DAC AIR INLET

Please note: Maguire reserve the right to update specifications and range without direct notification in print.
Dehumidifiers DW Series

Product Overview

DW dehumidifiers series, equipped with honeycomb desiccant rotor technology represent a new top level performance in dehumidifying systems, optimizing energy consumption and energy maximum efficiency and duty versatility.

Models DW maintain a constant Dew Point value to -25°C up 50°C thanks to the desiccant molecular sieves rotor technology with air flow rate from 30 to 600 m³/h.

Special characteristics of this new series make it suitable to be used on medical and food applications (fields, sectors), ensuring great advantages and features recognizable also in the base version.
Dehumidifiers DW Series

Product Overview

Standard Features

MICROPROCESSOR CONTROL UNIT
With LCD display, easier programming, setting only two parameters (material type & machine hourly consumption)

MOLECULAR SIEVES HONEYCOMB ROTOR TECHNOLOGY
(see diagram on previous page)

PID ELECTRONIC CONTROL
of process temperature with automatic presetting of the safety temperature

INTEGRATED ENERGY SAVING DEVICE
(see diagram on previous page)

HEATING CHAMBER
Internal stainless steel heating chamber insulated

SIDE CHANNEL BLOWERS
For process & regeneration

PROCESS FILTER

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<th></th>
<th>DW30</th>
<th>DW60</th>
<th>DW100</th>
<th>DW160</th>
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<td>100</td>
<td>160</td>
<td>200</td>
<td>300</td>
<td>400</td>
<td>600</td>
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<td>Instal. power total bar MT</td>
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<tr>
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<td>400/3-50-60</td>
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<td>400/3-50-60</td>
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<td>150</td>
<td>175</td>
<td>185</td>
<td>350</td>
<td>400</td>
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Dehumidifiers DW Series

### Product Overview

#### Standard Features

- **Microprocessor Control Unit**
  - With LCD display, easier programming, setting only two parameters (material type & machine hourly consumption)

- **Molecular Sieves Honeycomb Rotor Technology**
  - (see diagram on previous page)

- **PID Electronic Control**
  - of process temperature with automatic presetting of the safety temperature

- **Integrated Energy Saving Device**
  - (see diagram on previous page)

- **Heating Chamber**
  - Internal stainless steel insulated

- **Side Channel Blowers**
  - For process & regeneration

- **Process Filter**

- **Regeneration Filter**

- **Weekly Timer**

- **SSR**
  - Solid state relays (SSR) for heating the process

- **RS485 Modbus**

- **Warning Lamp**

- **Multi-hoppers DTM Interface**

#### Options

- **Air Process Flow Rate Control by Inverter**
- **Dew Point Instrument Monitoring and Control System with Alarm**
- **Operator Touch Screen Panel**
- **Acoustic Alarm**
- **Hand Controller HC**
- **Clogged Filter Pressure Switch**
- **Dedicated Process Air Temperature Safety Control**
- **Portable Dew Point**
  - Plug for external dew point connection <75 °C >150 °C recommend heater exchanger for temp

#### Model Summary

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<thead>
<tr>
<th></th>
<th>DW400</th>
<th>DW600</th>
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<tbody>
<tr>
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</tr>
<tr>
<td>Nm/h</td>
<td></td>
<td></td>
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<tr>
<td><strong>Process temp.</strong></td>
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<td></td>
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<tr>
<td>Nm/h</td>
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<td></td>
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<tr>
<td><strong>Blower power of process</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Blower power of regeneration</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>kW</td>
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<tr>
<td><strong>Power heating process</strong></td>
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<tr>
<td>kW</td>
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<tr>
<td>kW</td>
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<tr>
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<td><strong>Power supply</strong></td>
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<td>V/Hz</td>
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<td></td>
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<td><strong>Dimensions WxDxH</strong></td>
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<td>kg</td>
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Dehumidifiers D Series

Product Overview

Maguire D series desiccant dryers are designed to remove moisture absorbed in hygroscopic thermoplastic granular materials.

The range includes a series of models, with process air flow ranging from 80 m³/h up to 500 m³/h, suitable to satisfy every requirement in production. With dew point up to -50°C. The main technical features of the standard desiccant units are:

- Machine automatic running with daily-weekly timer;
- Microprocessor control panel with LCD or PLC display and keypad (optional);
- The main components in contact with process air are made in stainless steel;
- High-head low-noise side-channel blowers;
- Filters for air with high filtering capacity;
- Safety protections to save components from over-heating;
- End-user interface with keypad, LCD or "Touch Screen" display; possibility to couple the desiccant dryer with a wide range of drying hoppers, from 15 up to 1500 litres; stainless steel hoppers with thickness of insulation from 60 to 100 mm.
Dehumidifiers D Series

**Product Overview**

**Standard Features**

**TWO PARAMETERS**
Only two parameters to set the working process (material type & consumption/h)

**COOLING STOP DEVICE**
To set automatically stop time, avoiding thermo-degradation of material granules in process

**MONO- OR MULTI- HOPPERS SYSTEMS DESIGN**
With DTM drying time management interface

**CLOSE LOOP REGENERATION CIRCUIT**
Equipped with temperature control, enhancing a lower energy consumption, with energy saving up to 50% (DP version)

**Options**

- OPERATOR TOUCH SCREEN PANEL
- ACOUSTIC ALARM
- HAND CONTROLLER HC
- CLOGGED FILTER PRESSURE SWITCH
- DEDICATED PROCESS AIR TEMPERATURE SAFETY CONTROL
- PORTABLE DEW POINT
- PLUG FOR EXTERNAL DEW POINT CONNECTION
- DEW POINT CONTROL

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Find out where your nearest Maguire Partner is located …

**Technical Spec**

**VIEW**

**CLICK HERE**
Dehumidifiers D Series

Product Overview

**Standard Features**
- **Two Parameters**
  - Only two parameters to set the working process (material type & consumption/h).
- **Cooling Stop Device**
  - To set automatically stop time, avoiding thermo-degradation of material granules in process.
- **Mono- or Multi-hoppers Systems Design**
  - With DTM drying time management interface.
- **Close Loop Regeneration Circuit**
  - Equipped with temperature control, enhancing a lower energy consumption, with energy saving up to 50% (DP version).

**Options**
- **Operator Touch Screen Panel**
- **Acoustic Alarm**
- **Hand Controller**
- **Clogged Filter Pressure Switch**
- **Dedicated Process Air Temperature Safety Control**
- **Portable Dew Point**
- **Plug for External Dew Point Connection**

**Technical Specifications**

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Please note: Maguire reserve the right to update specifications and range without direct notification in print.
Dehumidifiers DP Series

Maguire DP series desiccant dryers are designed to remove moisture absorbed in hygroscopic thermoplastic granular materials.

The series includes a large scale of models, with process air flow ranging from 300 m$^3$/h up to 5000 m$^3$/h, suitable to satisfy every requirement in production. Hi-tech technological solutions and constant screening have brought to obtain the best performance in terms of high efficiency in use of molecular sieves, enhancing also a lower energy consumption.

The main technical features of the standard desiccant units are:
- Machine automatic running with daily-weekly timer; microprocessor control panel with LCD or PLC display and keypad (according to the model);
- Main components in contact with process air made in stainless steel;
- High-head low-noise side-channel blowers;
- Filters for air with high filtering capacity;
- Safety protections to save components from over-heating;
- End-user interface with keypad, LCD or “Touch Screen” display;
- Possibility to couple the desiccant dryer with a wide range of drying hoppers, from 15 up to 15000 litres; stainless steel hoppers with thickness of insulation from 60 to 100 mm.
# Dehumidifiers DP Series

## Product Overview

<table>
<thead>
<tr>
<th></th>
<th>D803P</th>
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## Model Summary

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*heating booster on board hopper

Please note: Maguire reserve the right to update specifications and range without direct notification in print.
Product Overview

The patented, exclusive air flow design and proprietary membrane guarantees -40° dew point process air year round and uses 1/3 the compressed air of copycat models.

The NovaDrier, is the most popular small resin dryer on the market, with thousands sold, and proven to dry ALL thermoplastic resins. These dryers have no moving parts so maintenance is minimal. Conventional compressed air dryers can’t match the drying performance of the membrane dryer because they never attain a -40° dew point and they use up to 3x as much compressed air as the NovaDrier. Desiccant bed dryers can’t match the low-maintenance reliability.

**New improved control**

- NovaDrier proprietary membrane ensures properly dried resin year round
- New energy saver standard on ND-100 through ND-200
- Standard process temperature 180°C
- Stainless steel hopper standard through 68 kg capacity
- Slide gate drain-port and slide-gate discharge on all hoppers
- Microprocessor temperature controller
- Machine mount or stand mount models
- Insulated hopper on all models
- Over-temperature indicator
- Low air pressure indicator
- Return air pellet screen
- 2-year warranty
How it Works

The patented NovaDrier design cannot be copied!

**FILTER**

2 coalescing filters remove oil, water droplets and small particles.

**EXPAND, HEAT, PRE-DRY**

Part of the air stream is expanded, heated and pre-dries the resin in the upper part of the hopper.

**REACHING DEW POINT**

The remaining air passes through the membrane and reaches a -40°C dew point.

**HEATING**

That air is heated to the process temperature and brings the resin in the lower part of the hopper to the low moisture content required for processing.
How a Membrane Works

The principle is simple, the design is proprietary.

1. Compressed air in
2. Water vapor is separated from the compressed air
3. A stream of dry air drives water vapor away
4. -40° dew point process air to drying hopper

The Novatec membrane case contains thousands of membrane filaments and was developed specifically for Novatec. No one else has it!
Model Summary

Standard Features

**DEW POINT PROCESS AIR**
Always Produces -40° Dew Point Process Air. The result is properly dried material...YEAR ROUND!

**REDUCED ENERGY COSTS**
Uses Far Less Compressed Air Than Conventional, Compressed Air Dryers or Add-On Membrane Models. The result is reduced energy costs.

**DESSICANT FREE OPERATION**
The result is higher part quality because there are no dew point spikes or deviations and no desiccant dust to contaminate resin.

**NEW, EASY-TO-USE CONTROL**
Larger numerals and easier to change settings

**ABSOLUTELY MINIMAL MAINTENANCE**
Changing 2 coalescing filter elements once per year is the only scheduled maintenance.

**INTEGRATED DEW POINT METER OPTIONAL**

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<tr>
<th>Model Summary</th>
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*Total connected load  **Usage at 82°C  ***Without stand

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Infrared Rotary Crystallizer/Dryer

Product Overview

Maguire Novatec Infrared Rotary Drum Crystallizing/Drying Systems are ideal for processors of PET thin film, sheet using postindustrial and post-consumer regrind and processors of polyester fiber.

They provide continuous processing of PET flake, reducing moisture from over 3500 ppm to less than 50 ppm in about an hour, compared to 5-6 hours for conventional systems.

How It Works

ONE STEP PROCESS
The IRD system crystallizes and dries up to 4000 lb/hr (1800 kg/hr) in one process.

ONE HOUR FROM OVER 3500 PPM TO LESS THAN 50 PPM
Material is dried to less than 50 ppm in 1 hour – that’s 4-5 times faster than conventional crystallizer systems.

ENERGY SAVINGS UP TO 45%
Infrared lamps provide efficient crystallizing/drying in one hour, drastically reducing energy costs compared to conventional systems.

UP TO 300% SPACE SAVINGS
Due to drastic reduction of in-process inventory and smaller equipment footprint.

QUICK CHANGE-OVER AND SHUTDOWN TIME
In-process inventory is only one hour of throughput capacity instead of 5-6 hours of production as with conventional crystallizer systems.

FASTER START-UP
More production time results from the minimal in-process inventory.

MAINTAINS CRITICAL RESIN PROPERTIES
Short exposure to heat help maintain critical properties including IV.
Infrared Rotary Crystallizer/Dryer

**Product Overview**

Moisture-laden PET regrind is fed into the rotary drum inlet of the IRD using a standard NOVATEC resin loading system. Special provisions can be made for loading low bulk density material. Sensors monitor the material level in the supply hopper to ensure continuous operation and the entire process is controlled by a SIEMENS Touch Panel PLC. The rotating drum gently transports the material through the length of the drum using an internal helix. The drum is fitted with “tumbler fins” ensuring that all surfaces of the material are quickly exposed to the rays from the banks of IR heaters. This guarantees fast crystallization and drying.

Energy costs are reduced by up to 45% because infrared rays are so much more efficient at crystallizing/drying the material than a conventional desiccant system.

The IRD crystallizes and dries in one operation. A low cfm dryer connected to a buffer hopper, holding about one hour of extruder production capacity, is used to further reduce the resin moisture content to the desired final level (can be below 50 ppm) while waiting to be processed. The total energy required to operate the IRD system is far less than using a conventional crystallizer plus a large desiccant dryer.

IRD start-up time is minimal so processors are operating faster from a cold startup. Material change over and cleanout is accomplished faster, than with conventional systems, translating into reduced material waste and more production time. Maintenance on the Maguire Novatec infrared rotary dryer/crystallizer is minimal. There are no rotating agitators to bend and break and no large desiccant dryer and hopper with their associated maintenance. The Maguire Novatec IRD system is designed to overcome disadvantages associated with competitive units and Novatec is the only U.S. manufacturer of IRD systems for plastics processors. Our drying technology center in Baltimore is available to demonstrate actual drying/crystallizing results using customersupplied material.

Contact Maguire Novatec for further information.

**How It Works**

- Reduces energy costs by about 45% compared to conventional crystallizer/dryer
- Infrared lamps produce rays that travel directly into the particles of resin without heating the surrounding air
- A helix inside the rotary drum moves the resin particles through the process
- A stream of air removes the vapourised moisture from the process
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.

**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.
A revolution in dryers

- **Speed of Drying**
- **Reduced Maintenance**
- **VBD Vacuum Dryer**

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

**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

**Speed of Drying**
- 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.

**Reduced Maintenance**
- Low maintenance.
- Dry up to 1000 lb per hour in 1/6 of the time.

**VBD Vacuum Dryer**
- Improved design obsoletes moving canisters and minimizes moving parts.
- Less energy than desiccant dryers – 50% per hour in 1/6 of the time.
VBD Vacuum Dryer

** 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.

**Speed of Drying**

Improved design obsoletes moving canisters and minimizes moving parts.

- 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.
- Backed by same 5-year warranty as all Maguire products.

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

3 Stage drying process

Controllers

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.
How it Works

3 Stage drying process

The dryer operates in a 3 step process and 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.
How it Works

- 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.

Simple is better
No confusing icons
Technical Specification

<table>
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<tr>
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<th>LPD-30</th>
<th>VBD-150</th>
<th>VBD-1000</th>
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<tbody>
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<td>U.S.</td>
<td>Metric</td>
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<td>up to 15 Kg/hr</td>
<td>up to 150 lb/hr</td>
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<tr>
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<td>76 lb (2 ft³)</td>
</tr>
<tr>
<td>Vacuum Vessel Volume</td>
<td>0.32 cu ft</td>
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<tr>
<td>Retention Hopper Volume</td>
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<tr>
<td>Product Weight</td>
<td>550 lb</td>
<td>250 Kg</td>
<td>501 lb</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>
</tr>
<tr>
<td>Retention Hopper Volume</td>
<td>0.32 cu ft</td>
<td>9 L</td>
<td>50 lb (1.3 ft³)</td>
</tr>
<tr>
<td>Max. Temperature</td>
<td>360°F</td>
<td>190°C</td>
<td>370°F</td>
</tr>
<tr>
<td>Power Supply</td>
<td>460V/3Ph/60Hz</td>
<td>3.47 kW / 16 A</td>
<td>400V/3Ph/50Hz</td>
</tr>
<tr>
<td>Process Heater</td>
<td>3 KW</td>
<td>6 KW</td>
<td>35 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>
</tr>
<tr>
<td>Compressed Air Pressure</td>
<td>70-90 psi</td>
<td>6 - 8 bar</td>
<td>80 psi</td>
</tr>
<tr>
<td>Compressed Air Usage</td>
<td>0.4 cfm</td>
<td>0.7 m³/h</td>
<td>40 ft³/hr</td>
</tr>
<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:

- Nylon at 170°F (77°C) watt/Kg/hr:
  - Dual Bed: 81.8
  - VBD: 38.9

- PET at 300°F (148°C) watt/Kg/hr:
  - Dual Bed: 130.2
  - VBD: 52.8

Energy savings comparison:
- Nylon at 170°F: Dual Bed 81.8 vs. VBD 38.9, energy savings 53%
- PET at 300°F: Dual Bed 130.2 vs. VBD 52.8, energy savings 60%

Please note: Maguire reserve the right to update specifications and range without direct notification in print.
## Technical Specification

### Model Summary

<table>
<thead>
<tr>
<th>Model</th>
<th>LPD-30</th>
<th>VBD-150</th>
<th>VBD-1000</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Throughput</td>
<td>30 lb/hr</td>
<td>15 kg/hr</td>
<td>200 lb/hr</td>
</tr>
<tr>
<td>Heating Hopper Volume</td>
<td>0.32 ft³</td>
<td>9 L</td>
<td>34.6 ft³</td>
</tr>
<tr>
<td>Vacuum Vessel Volume</td>
<td>0.32 ft³</td>
<td>9 L</td>
<td>1.3 ft³</td>
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<td>80 psi</td>
</tr>
<tr>
<td>Compressed Air Usage</td>
<td>0.4 cfm</td>
<td>0.7 m³/h</td>
<td>12.5 ft³/hr</td>
</tr>
<tr>
<td>Product Weight</td>
<td>550 lb</td>
<td>250 kg</td>
<td>501 lb</td>
</tr>
</tbody>
</table>

### Electrical Consumption

<table>
<thead>
<tr>
<th>Model</th>
<th>Nylon at 170°F</th>
<th>PET at 300°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>watts/Kg/hr</td>
<td>81.8</td>
<td>130.2</td>
</tr>
<tr>
<td>watts/Kg/hr</td>
<td>30.8</td>
<td>52.8</td>
</tr>
</tbody>
</table>

### Energy Savings

<table>
<thead>
<tr>
<th>Model</th>
<th>Electrical demand for 9.8 SCFM</th>
<th>TRUE Energy Consumption</th>
</tr>
</thead>
<tbody>
<tr>
<td>VBD-1000</td>
<td>40 KW</td>
<td>81.8 watts/Kg/hr 53%</td>
</tr>
<tr>
<td>VBD-150</td>
<td>8.1</td>
<td>38.9 watts/Kg/hr 60%</td>
</tr>
</tbody>
</table>

---

### Energy Usage Comparison

- **Dual Bed VBD**
- **Maguire VBD-1000 Vacuum Dryer**

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

<table>
<thead>
<tr>
<th>Material</th>
<th>Nylon @ 170°F</th>
<th>PET @ 300°F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Energy Consumption</td>
<td>81.8 watts/Kg/hr</td>
<td>130.2 watts/Kg/hr</td>
</tr>
<tr>
<td>ENERGY SAVINGS</td>
<td>53%</td>
<td>60%</td>
</tr>
</tbody>
</table>

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The most popular small resin dryer …

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6 x faster than conventional dryers …

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ProDuct GuiDe
Materials Drying

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