

**Novatec NovaWheel™ PowerGuard™ Series with Patented Technology Reduces Energy Costs by Up To 35%**

**Regeneration Optimization  
Process Heating Energy Savings  
Dual Flow Process Heating**

**Patent # 5,588,305  
Patent # 6,951,065 B2  
Patent # 7,007,402 B1**

See video on the NovaWheel™ PowerGuard at:  
<http://www.novatec.com/NWPGvideo>

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**Novatec's PowerGuard products, for plastics processors, are designed with patented or patent pending technology that will reduce your energy costs** for drying thermoplastics, over and above the savings offered by our standard NovaWheel dryers.

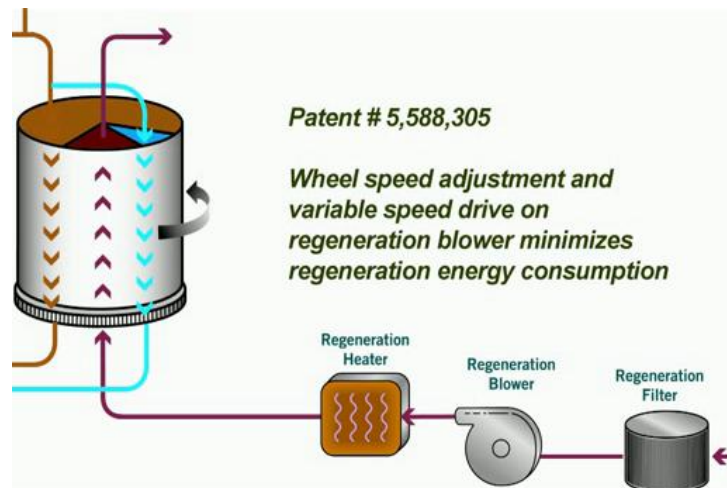


Our PowerGuard NovaWheel dryers are available with throughputs from 450-5000 lb./hr. **All can be used in conjunction with a single hopper or as a Central Dryer to dry different resins in multiple hoppers.**

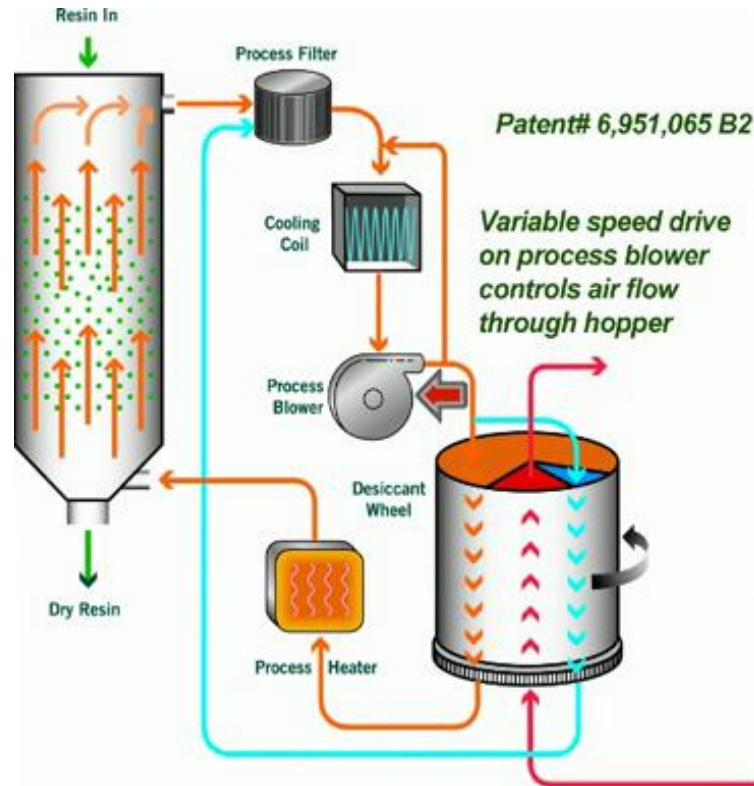
What makes these PowerGuard models different? Simply put, **they have exclusive energy-saving features that other manufacturers cannot offer**, while still ensuring that you dry your material thoroughly...matching your processing needs.

**One of those patented technologies will save plastics processors up to 30% on desiccant regeneration, with our PowerGuard NovaWheel.**

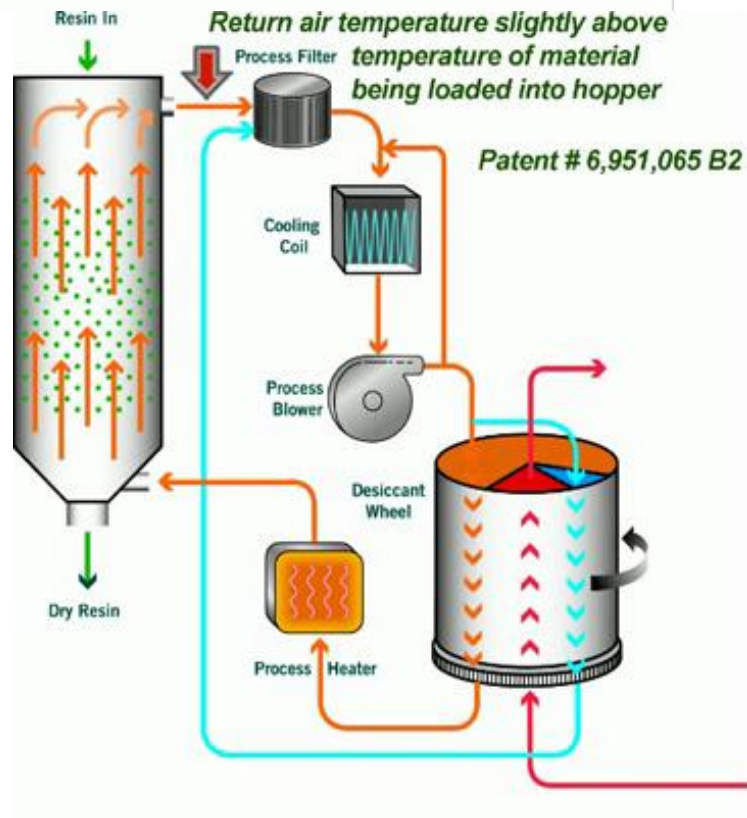
We accomplish this by controlling the air flow through the wheel while adjusting the wheel rotation speed – all of this is done automatically through our color touch screen control. (Patent # 5,588,305)



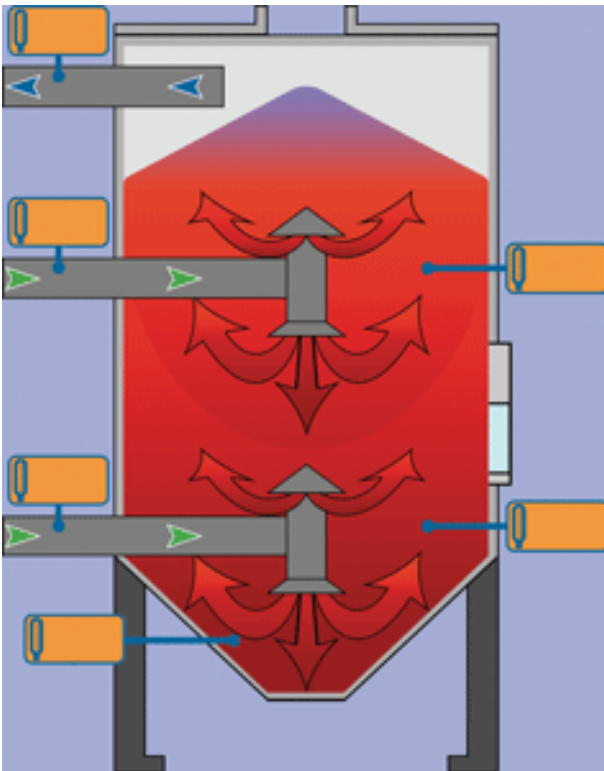
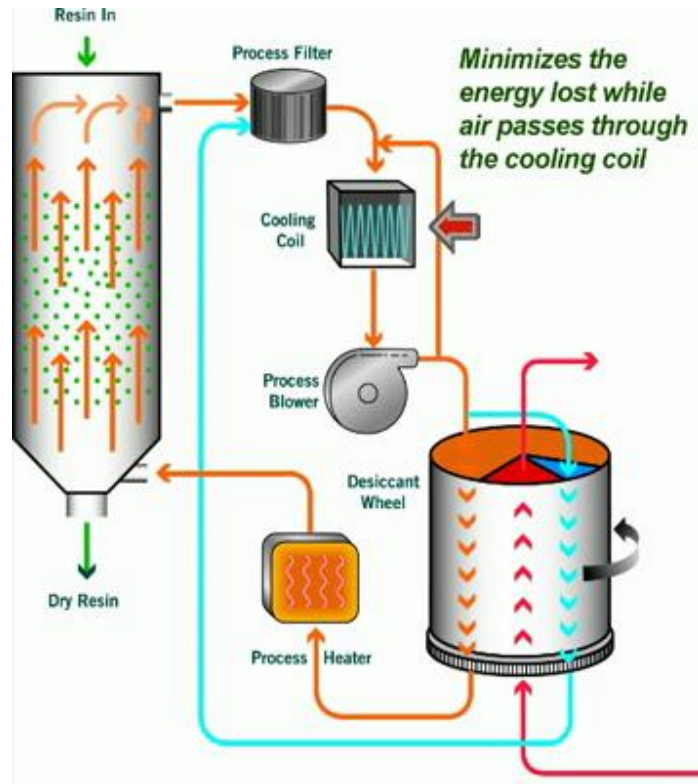
***We also reduce energy costs for plastics processors with automatic process air flow adjustment***, which ensures that you get optimal drying without wasting heat. This patented technology allows us to use a variable frequency drive to control process blower speed while monitoring the process air, outlet temperature.



By holding the outlet temperature to the approximate temperature of incoming material, we assure that minimal energy is wasted and optimum drying occurs. (Patent # 6.951,065 B2)



Minimizing the return air temperature also **reduces the energy lost when the air passes through the cooling coil** and helps maintain a uniform machine throat temperature.



**We offer a Single Flow Hopper/Dryer design for most applications and a patented Dual Flow Hopper/Dryer design for specific applications.**  
(Patent # 7,007,402 B1)

In both cases, the PowerGuard Hoppers include internal temperature sensors for trending purposes.

**All PowerGuard series dryers include a 10" color touch screen with automatic control of our proprietary energy-saving features and trending screens for all dryer functions.**



**In some areas of the country, it advantageous to use a gas-fired process heater instead of electric...** and Novatec has the most energy efficient GFH in the industry so be sure to see our video on the patented Novatec GFH. (Patent # 6,044,837)

Whether you are replacing a dual bed or carousel dryer or just adding a dryer to your plant, a NovaWheel **PowerGuard Dryer is your best insurance against rising energy costs.**

**Novatec is the only manufacturer offering all types of resin dryers** so you can depend on us to be completely honest in our recommendations.

Please contact me, Mark Haynie and I will be happy to assist you in deciding which dryer is best for your application.

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