

Novatec Patented NovaDrier™ Uses 1/3 to 1/2 the Energy of Other Compressed Air or Membrane Dryers - Patent No. 6,584,701

See video on NovaDrier™ at: <http://www.novatec.com/NDvideo>

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The Novatec patented NovaDrier™ membrane dryer, for plastics processors, uses 1/3 to 1/2 the energy consumed by competitive models. The NovaDrier continues to be the most popular small dryer on the market for drying all types of plastic pellets. The NovaDrier is a compressed air dryer with a built-in membrane, and a ***patented airflow design***, to remove moisture from plastic pellets efficiently. Here are some of the features that make the NovaDrier so popular.

NovaDrier models are available in 6 sizes from up to 7 pounds per hour to 225 pounds per hour throughput - ***the largest range of membrane dryers available in the industry.***

Hoppers with capacities up to 150 pounds are stainless steel. Larger hoppers are carbon steel but stainless steel contact surfaces are available. All hoppers are fully insulated to minimize heat loss and reduce energy costs for plastics processors. Each hopper is equipped with a shutoff valve and a hopper drain out slide gate.

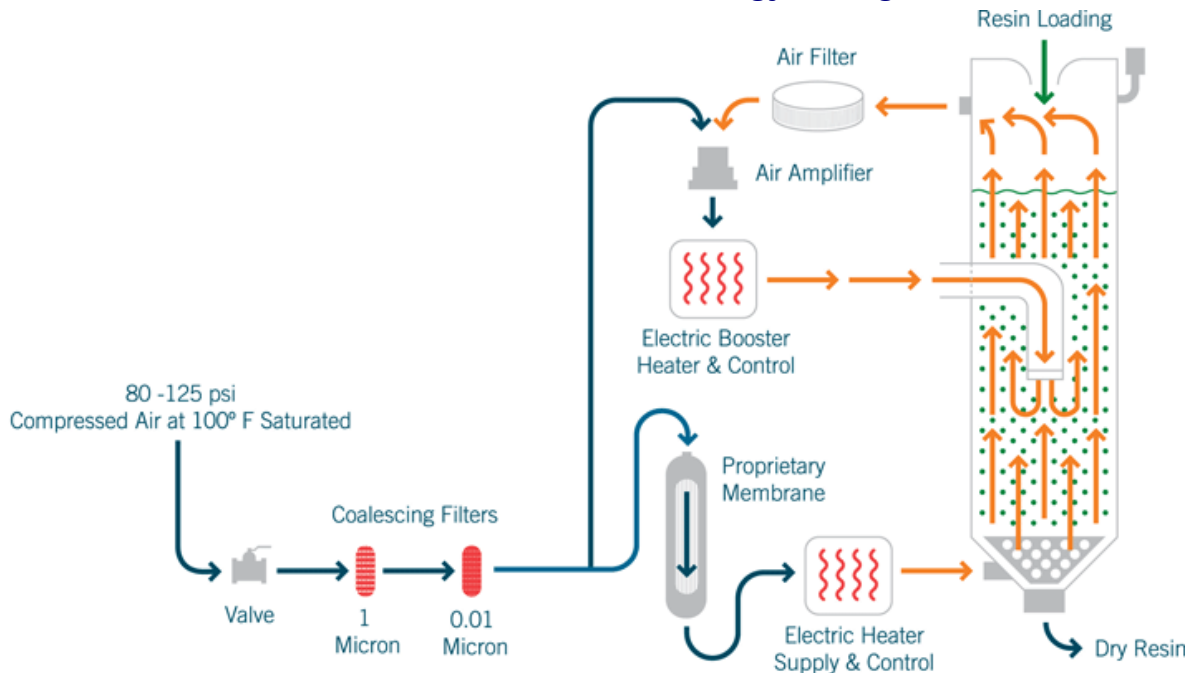


The NovaDrier control is very easy to understand. The operation of the NovaDrier is so simple that the only control really needed is an ON/OFF Disconnect switch. A low-air pressure indicator and a hi-temperature indicator are standard. A DIN-type LED digital thermal temperature controller is also standard. There is an alarm light and process air filter on top of the control panel with easy access.

Options include a dew point sensor and 7-day timer.

Maintenance on the NovaDrier is minimal – another big savings for plastics processors drying plastic pellets. Two coalescing filters on the incoming air stream are the only scheduled maintenance items to contend with. Simply change the filter elements every 12 months to protect the membrane from oil travelling in the airstream.

The Novatec patented (Patent No. 6,584,701) **airflow design is the reason no other manufacturer can come close to our energy savings.**



Regular compressed air dryers without a membrane use double the energy of a NovaDrier and they never reach a -40 degree dew point so you can't be assured of uniform drying of your plastic resin.

Some manufacturers supply their compressed air dryer with **optional add-on membranes that use 3 times the energy of a NovaDrier** because they can't copy the patented airflow design of the NovaDrier. **On a 25 lb./hr. model that amounts to over \$3,000 per year in wasted energy - over \$30,000 in ten years...per dryer!**



The NovaDrier has no moving parts, no desiccant beads and no regeneration heaters so there are no spikes or deviations in dew point...just continuous dry air process air and **no downtime for maintenance** except about 5 minutes/year to change those 2 coalescing filters.█

You have easy access to the inside of the electrical panel though, once you start running a NovaDrier, it is so trouble-free you will probably forget you have it. Inside the panel is our proprietary membrane which removes moisture from the process air.

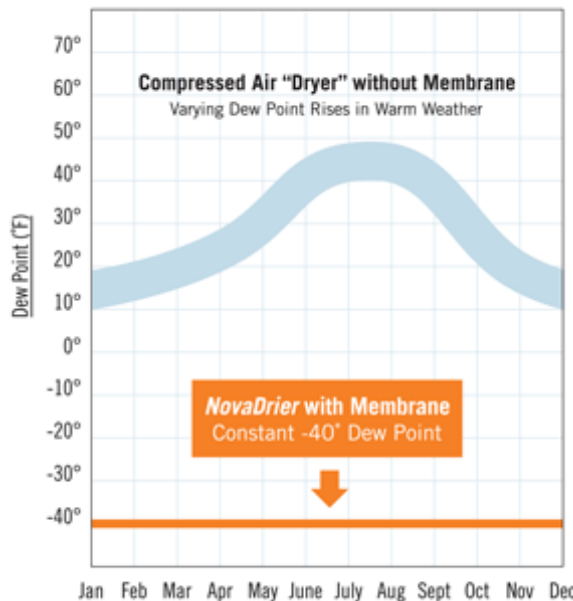




The Novatec proprietary membrane consists of thousands filaments. Magnification of an end view shows that the filaments are hollow. Compressed air is forced into the filaments. ***The moisture is wicked away so efficiently that process air with a -40 degree dew point exits the end of the membrane.*** The -40 degree dew point air is heated to the temperature required for

the plastic resin being dried and is circulated through the drying hopper to remove moisture from the plastic material.

Conventional compressed air dryers do not actually remove moisture from



the airstream so the dew point of the process air never gets to -40 degrees. That's why conventional compressed air dryers are not as effective at drying plastics. The performance of conventional compressed air dryers is also affected by the temperature and humidity of the incoming air whereas the NovaDrier operates at the same high level of efficiency even without pre-dried compressed air. ***The NovaDrier uses about ½ the compressed air compared to conventional compressed air dryers.***

Novatec has sold thousands of NovaDriers and they are effective in drying all types of resins. If you are a plastics process, in the market for a dryer up to 225 lb./hr., you should really consider the Novatec patented NovaDrier.

Novatec is the only manufacturer of all types of dryers used by plastics processors to dry and/or crystallize all types of plastic polymers. Therefore, Novatec can recommend the best dryer for any plastics drying application without prejudice.

For more information now, download our NovaDrier data sheet http://www.novatec.com/assets/files/ds/drying/DataSheet_ND_200907.pdf and contact Novatec at saleshelp@novatec.com or call 1-866-252 6370

We will be happy to assist you in deciding which dryer is best for your application.