

NovaWheel dryers take a proven drying technology to a new level of excellence... reducing your energy costs

Replace energy-hog Dual-Bed and Carousel Dryers* with NW Series Dryers – the energy saving dryer for processors.

Failure to reduce production costs, can be a costly error during these times and there are multiple reasons that you should use NovaWheel dryers to reduce one of the few costs within your control – energy costs. Old dual bed and Carousel dryers use huge amounts of energy compared to the NovaWheel and those increased costs lose customers, cause layoffs and kill profits.

- **5.7" Touch Screen Control Standard On All Models**
No confusing codes, annoying function buttons or manual look-ups.
- **Chain Drive for Long Life and Drying Uniformity**
Marginal belts used by other manufacturers stretch - The NOVATEC lifetime chain drive ensures more uniform regeneration of the desiccant and reduced maintenance.
- **Eliminates The Need For Desiccant Beads**
No more desiccant dusting.
- **Reduced Energy Usage**
 - Smaller mass of desiccant to heat.
 - Fewer metal surfaces to absorb and waste heat.
- **NovaWheel Occupies Up To 65% Less Floor Space Than Comparable Dual Bed Dryers**
 - Compact, aesthetically-pleasing design.
- **Significant Reduction of Maintenance and Parts Costs Compared To Either Carousel or Dual Bed Dryers**
 - Fewer moving parts for simpler operation.
 - No valves.
 - Filter elements easily accessible.
- **Central Dryer Packages**
Available on all models NW-500 and up.

* Carousel rotating desiccant bed dryers were popular in the 1990's but they are being phased out due to high maintenance and downtime issues.



NW-1000NC

NW-100N

Additional Features:

- -40° Dew point guaranteed
- Separate process and regeneration blowers
- Process temperatures up to 350°F (177°C) with interlock to heaters
- Open access to all components
- Dew point sensor for process air
- Pre-cooler (Return air)
- 2-Year Warranty

NovaWheel model types:

(see individual data sheets)

- NovaWheel small, medium and large
- NovaWheel PowerGuard™ series
- IntelliPET series

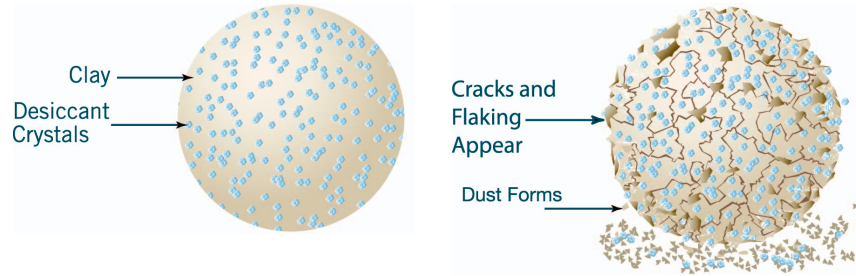
Say Goodbye to Desiccant Bead Drying

Using traditional desiccant beads for drying is inefficient and costly.



Ordinary desiccant beads are really only 70% desiccant. The other 30% is a clay binder that holds the bead together. That's why you need so many desiccant beads in a twin tower dryer.

The expansion and contraction of the desiccant beads, due to the heating and cooling process, causes a rapid breakdown of the clay binder. As the bead disintegrates, drying efficiency is sharply reduced, compromising dew point and increasing energy usage.



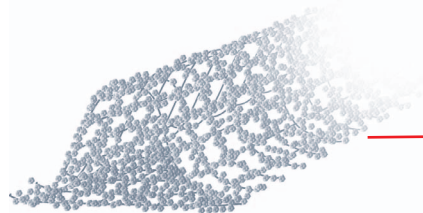
Ultimately the desiccant beads turn to unusable dust, which must be replaced with fresh beads while the dryer is taken offline.

Say Hello to the Energy-Efficient Desiccant Wheel

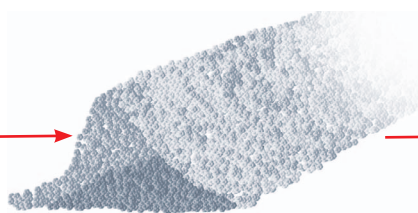
Discover the NovaWheel™ difference...

- Permanently bonded, pure molecular sieve desiccant.
- Big energy savings results from exposing 3 times the pure desiccant per minute available for drying - as compared to a twin tower dryer.

The desiccant wheel is built for efficiency



100% Pure crystalline desiccant is embedded in a woven substrate.



The result is 100% pure molecular sieve desiccant that is permanently bonded onto the substrate, delivering a uniform -40° dew point.

Actual desiccant on woven substrate.



This desiccant impregnated substrate is then formed into a tightly wound wheel that contains more pure desiccant than a twin tower of 3 times its size.

How The NovaWheel™ Works

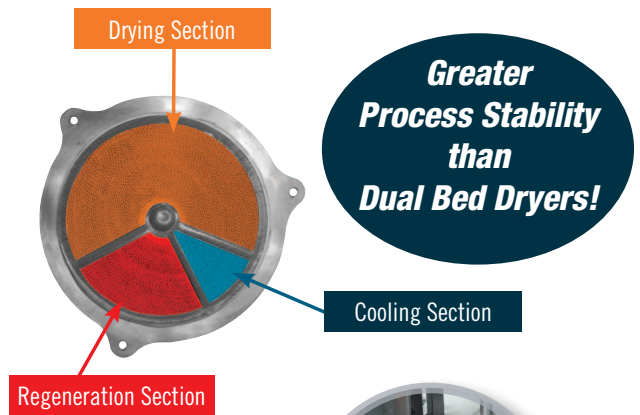
As the NovaWheel rotates, stationary seals divide it into 3 distinct sections... Drying, Regeneration and Cooling. This continuous process ensures that dry desiccant is always available, therefore:

- Efficiency increases
- Power consumption decreases
- -40° dew point is guaranteed

Drying Section - A process blower pulls saturated air from the hopper and through a process filter and cooling coil. Process air is forced through the drying section of the desiccant wheel where the moisture is adsorbed. The desiccated air is then heated to the required temperature for drying and circulated back through the resin hopper.

Cooling Section - The desiccant is prepared to adsorb moisture when it rotates to the drying section.

Regeneration Section - Ambient, filtered air is heated to 400°F and forced through the regeneration section removing the moisture that was adsorbed by the desiccant.

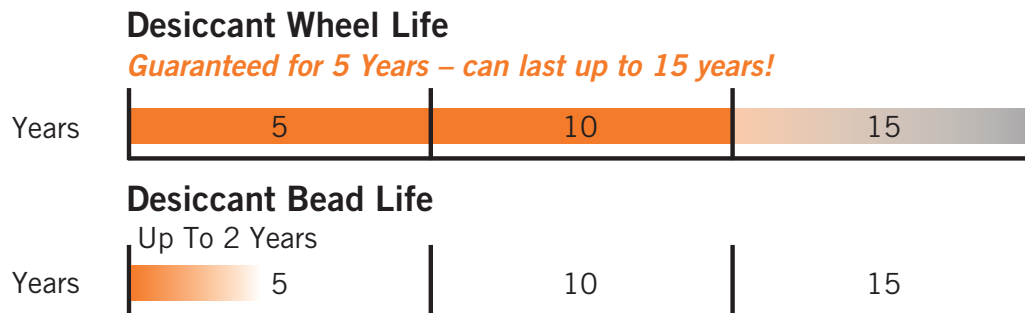


Greater Process Stability than Dual Bed Dryers!



Non-slip, lifetime chain drive reduces maintenance and ensures uniform drum rotation for consistent -40° dew point.

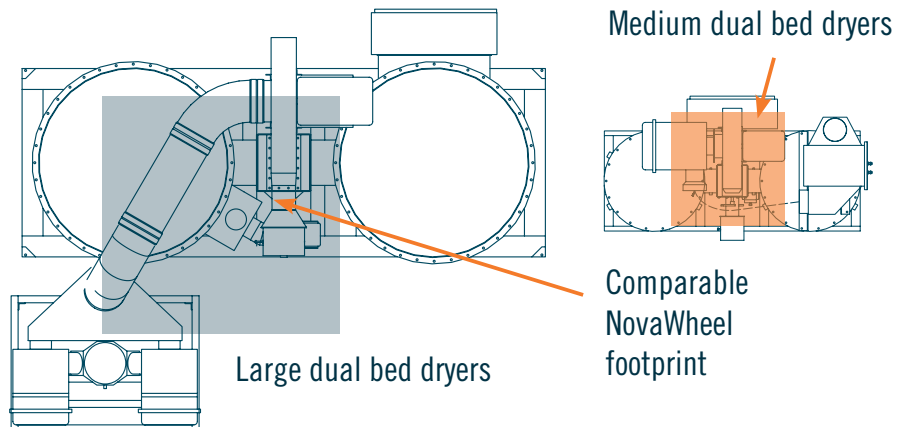
Longer Desiccant Life Guaranteed



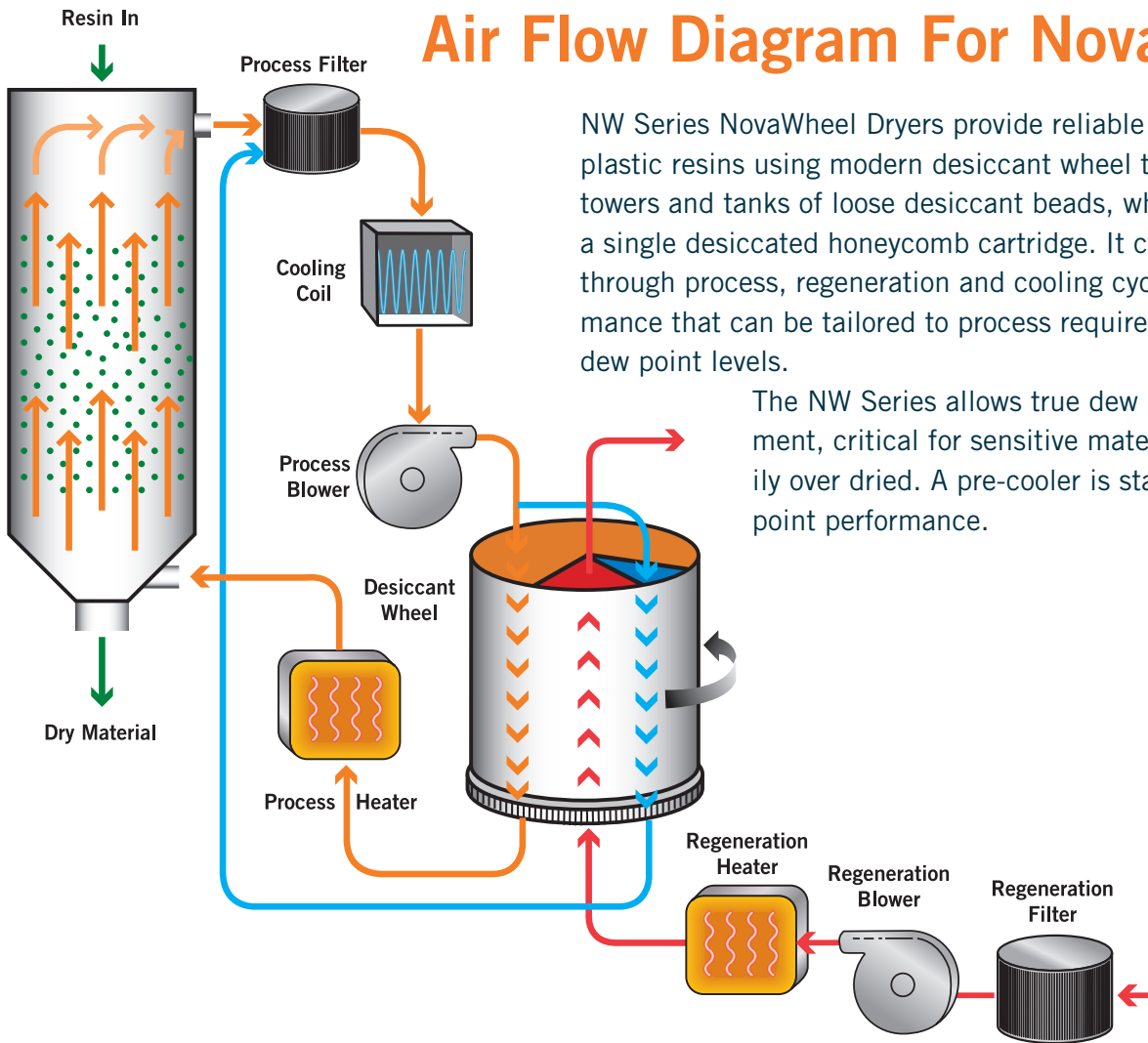
Bead degradation begins immediately, reducing dryer efficiency.

Reduce Dryer Footprint By up to 75%

The footprint of NovaWheel dryers is only 25-35% of comparable dual bed dryers.



Air Flow Diagram For NovaWheel™



NW Series NovaWheel Dryers provide reliable dehumidifying of plastic resins using modern desiccant wheel technology. In place of towers and tanks of loose desiccant beads, wheel dryers employ a single desiccated honeycomb cartridge. It continuously rotates through process, regeneration and cooling cycles with drying performance that can be tailored to process requirements with adjustable dew point levels.

The NW Series allows true dew point set point adjustment, critical for sensitive materials that may be easily over dried. A pre-cooler is standard to ensure dew point performance.

NovaTouch™ Touch Panel PLC Standard

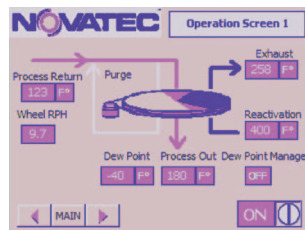


5.7" Color touch screen standard on all NovaWheel dry-convey models and NW-800 through NW-5000.

- **NO Confusing Codes**
- **NO Annoying Function Buttons**
- **NO Manual Look-ups**
- **NO Extra Charge**

Simplifies setup with easy prompts and controls. Multiple communications capabilities optional.

See touch screen details in separate data sheets for small, medium and large NovaWheel dryers.



5.7" Monochrome touch screen standard on NW-25 through NW-600 models.