



NWB-DC NovaWheel™ Dryers

NWB-DC and NWB-DC+ Dry/Convey Series

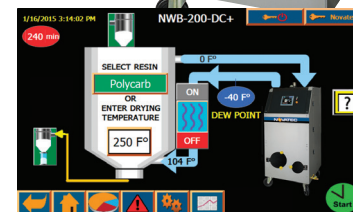
New Dryer Genie Moisture Analyzer available on NWB-DC+ Models (see pages 5 and 6).

NWB-DC+ Series include a 7-inch color touch screen PLC control with unique standard features that others call options!

The energy saving NovaWheel™ dryer design includes a 4 or 7-inch color touch screen PLC that is easier to use than any other dry/convey control. No confusing codes, function buttons or manual lookups. Plus, there are standard dryer features not found on competitive models.



NWB-50-DC+ Includes hopper and machine mount receivers



Seven-inch Color Touch Screen

NWB-DC+ models include these unique features:

Seven-inch, High-Resolution, Color, Touch Screen, PLC Control

Intuitive icons guide the operator through set-up and monitor all drying parameters.

OverDry Protection

Unique feature that eliminates over-drying of Nylons and other sensitive resins.

Intuitive Control With Diagnostics Guide

A troubleshooting guide, complete with photos on the touch screen walk you through operational alarms as well as routine maintenance.

Ethernet Ready Plus SD Card

Smart Ethernet connection with data logging and trending.

Networking Capability

ColorNet™ networkable color HMI

› Intelligent Regeneration

Monitors the regeneration process and makes changes, automatically, to minimize the energy used to no more than required.

› Standard Three-Phase Detection

Detects phase error and provides an alarm.

› Auto-Start/Stop Timer

Set for any combination of hours per day and days per week.

› Central Vacuum Blower for Conveying

Minimizes maintenance and energy usage.

› Hopper and Dryer Uncouple

For use as separate units.

› Automatic Monitoring and Alarm of Dryer Filter Condition

Operator is alerted with alarm light when process or regeneration filters need to be cleaned or replaced.

› High Efficiency Stainless Steel Hopper

Fully insulated with full-length sight glass and pellet screen.

› No-Charge Standards

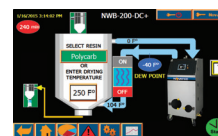
- Dew point analyzer with indication and alarm
- Red/green alarm light

› 5-Year Warranty

For lowest cost of ownership.

NWB-DC-25 through -200 models

Includes a four-inch color touch screen PLC control and standard features shown, plus USB memory stick for data logging and trending.



Four-inch Color Touch Screen

Plus

- › Separate process and regeneration blowers
- › Cooling coil with plasticizer drain for temperatures above 225°F (107°C)
- › Hopper receiver and machine mount receiver
- › Vacuum purge valve with slide-gate discharge
- › 5" Casters for mobility
- › -40° dew point guaranteed
- › Process temperatures up to 350°F (177°C) with interlock to heaters
- › Open access to components
- › 1.5-inch Flex hose (50 ft) and clamps
- › 460/3/60 VAC standard
- › 5-Year warranty

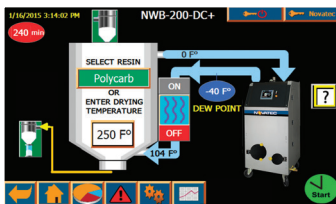
Raising the Bar for Portable Dryers



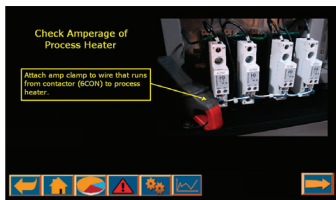
Smart PLC touch screen makes setup easy:



1. Select resin



2. Start drying



3. Pictorially guides you to a solution



Built-in standards...sold as options everywhere else!

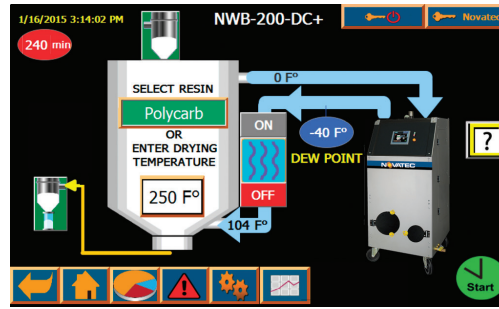
- › Upgraded Siemens PLC with 4 or 7-inch high resolution display.
- › Displays drying faults and uses pictorial solution screens.
- › Automatically detects and avoids overdrying (Plus models).
- › Smart Ethernet connection with data logging (Plus models).

Siemens Color Touch Screen PLC Control Equals Convenience and Reliability

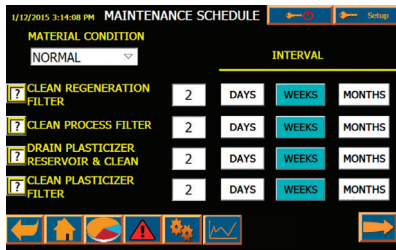
Another Novatec First...

- › No more confusing codes
- › No annoying function buttons
- › No manual look-ups

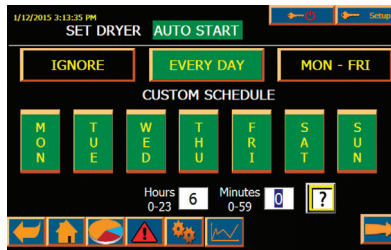
Simply touch any of the intuitive icons to access related screens.



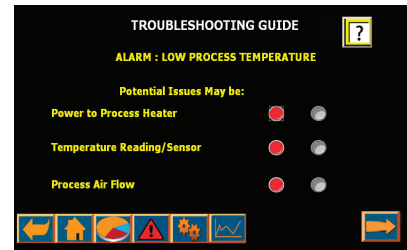
Operation Screen



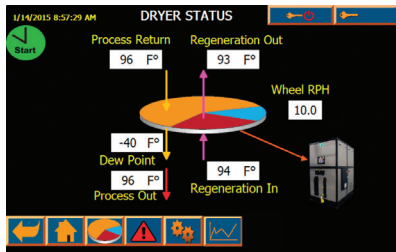
Maintenance Schedule



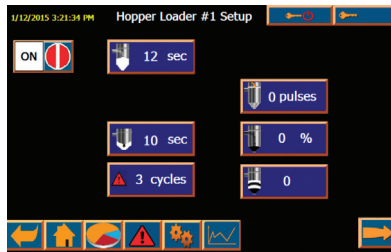
Auto-Start/Stop Menu



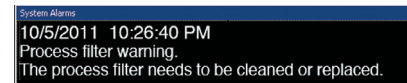
Troubleshooting Guide



Dryer Status Screen



Setup Screens for Hopper and Machine Loading



Process and Regeneration Filter Conditions are Automatically Monitored and Displayed.

Main Features:

- › Intuitive touch screen for ease of operation
- › No confusing alarm codes to look up
- › Seven day timer – for auto on/off
- › Filter maintenance alerts with oversized filters
- › Set points with deviation limits
- › Dew point sensor
- › Real-time clock with battery backup

Features	NovaTouch Control
Touch Screen Entry	Standard
Control Temperature #1	Standard
Over-temperature Alarm and Shutdown	Standard
Hygro Dew Point Sensor	Standard
Real Time Clock	Standard
Seven Day Timer	Standard
Auto Start/Stop	Standard
High/Low Temperature Alarm	Standard
Warning and Error Messages	Standard
Battery Backup	Standard
EEPROM	Standard
Blower Differential Pressure Switch	Standard
Calibration Feature and Set Point Secure	Standard
Set Deviation Limits	Standard
Language Capabilities	Standard
PLC Diagnostics	Standard
*Adjust PID Settings	Standard

NovaTouch™ Control at No Extra Charge!

*By Novatec only

SPECIFICATIONS

Model Number*	Width		Depth		Height**		Air Connection		Hopper Capacity***		Throughput Capacity***			
	in	cm	in	cm	in	cm	in	cm	lb	kg	@460/3/60	@415/3/50	@575/3/60	
											lb/hr	kg/hr	kg/hr	kg/hr
NWB-25-DC+	53	135	32.8	83.0	67.3	171	2	5	55	25	25	11.5	10	11.5
NWB-50-DC+					70.7	179	2	5	110	50	50	22.7	19	22.7
NWB-75-DC+					86.7	220	2	10	165	75	75	34.1	29	34.1
NWB-100-DC+	61.5	156	34	86	79.2	201	4	10	220	100	100	45	38	45
NWB-150-DC+ †					92.7	235	4	10	330	150	150	68	57	68
NWB-200-DC+ †	70.6	179	37.1	94	93.4	237	6	10	600	272	200	91	74	91
NWB-300-DC+ †			51.7	131	106.4	270	6	10	800	363	300	136	110	136

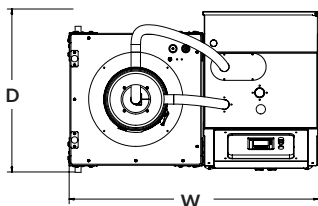
* Specify + after model number for 7" color screen. Delete + for 4" color screen through -200.

**Add 11" to "H" for VR-5 on NWB-25-DC+ & -50-DC+. *Add 14" to "H" for VR-12 on NWB-100-DC+ & -150-DC+.

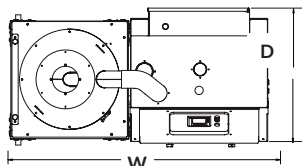
**Add 20" to "H" for VR-12 on NWB-75,-200 & -300-DC+.

***Based on polycarbonate pellets @ 38 lb/ft³

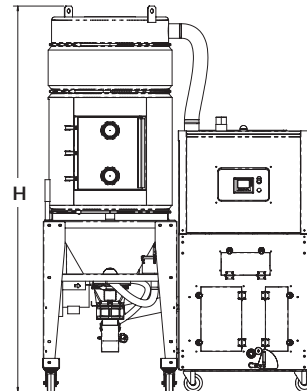
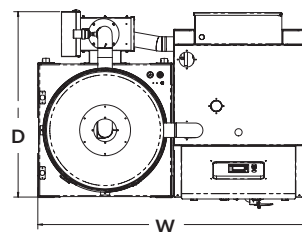
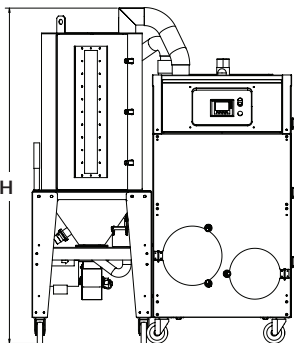
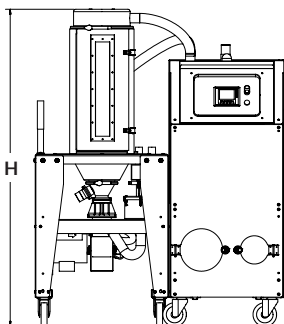
†Casters or hopper extension are packed separately to avoid extra freight charges due to height.
NOTE: Dimensions and throughput are the same for -DC and -DC+ models.



NWB-25-DC through
NWB-75-DC



NWB-100-DC through
NWB-200-DC



NWB-300-DC

OPTIONS

- › **Thermal+ For All Plus Models**
Ensures that new heat-sensitive resins are dried properly.
See separate data sheet.
- › **Blowback**
On machine mount receiver and hopper receiver.
- › **8 lb Glass Hopper**
(In lieu of 2 lb when ordered with VR-12-MM only).
- › **Alternate Voltages**
(in lieu of 460V/3ph/60Hz) 415/3/50 (no charge)
or 460/3/60-CUL, 575/3/60-CUL, 230/3/60.
- › **Water Saver**
Reduces energy usage by ensuring that no more cooling takes place in an external cooling coil than is required (Plus models).
- › **Dryer Genie Moisture Analyzer**
Measures initial moisture content in resin to be processed and sends the data to the dryer control which automatically adjusts residence time, blower speeds and temperatures.

ACCESSORIES

- › **Stainless Steel Hopper Extensions for -DC and -DC+**
25 lb for -25, 70 lb for -50, 110 lb for -100,
200 lb with or without sight glasses for -200 and -300.
- › **External Proportioning Valve with Coupler**
1.5" or 2.0" O.D.
- › **External Process Air Cooling Coil on Stand or on Stand with Plasticizer Trap**
(For -300 models only) Drying temperatures less than 170°F (77°C) require an external process air cooling coil. Please contact factory for options.

Accessories Included @ No Charge		
Model	Machine Mount Receiver Capacity	Hopper Receiver Capacity
-25, -50	5 lb/2.3 kg	5 lb/2.3 kg
-75	5 lb/2.3 kg	12 lb/5.5 kg
-100, -150, -200, -300	12 lb/5.5 kg	12 lb/5.5 kg
Flex Hose, Clamps and Pickup Wand Included		

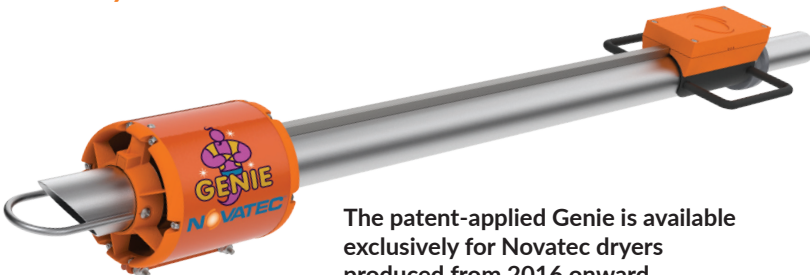
Dryer Genie option for NWB+ Series

Only the Genie Moisture Analyzer from Novatec gives you the total drying advantage by maximizing your resin dryer performance.

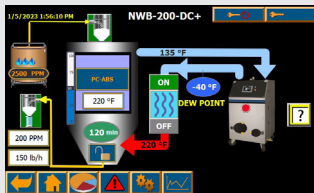
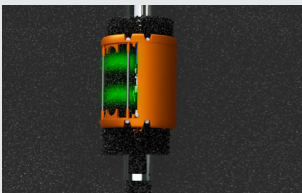
With the Dryer Genie pre-drying moisture analyzer, your dryer will know the exact moisture of the pellets prior to drying. Then, the program within the dryer will automatically adjust to control dewpoint, blower speeds, temperatures, and, most importantly, residence/drying time, so the resin is dried to the prescribed moisture level in the shortest possible time with no operator intervention.

- **Make more parts in less time**
- **Use less drying energy**
- **Make parts that are always dry, but not over-dried**

Easy. Accurate. Affordable.



The patent-applied Genie is available exclusively for Novatec dryers produced from 2016 onward.



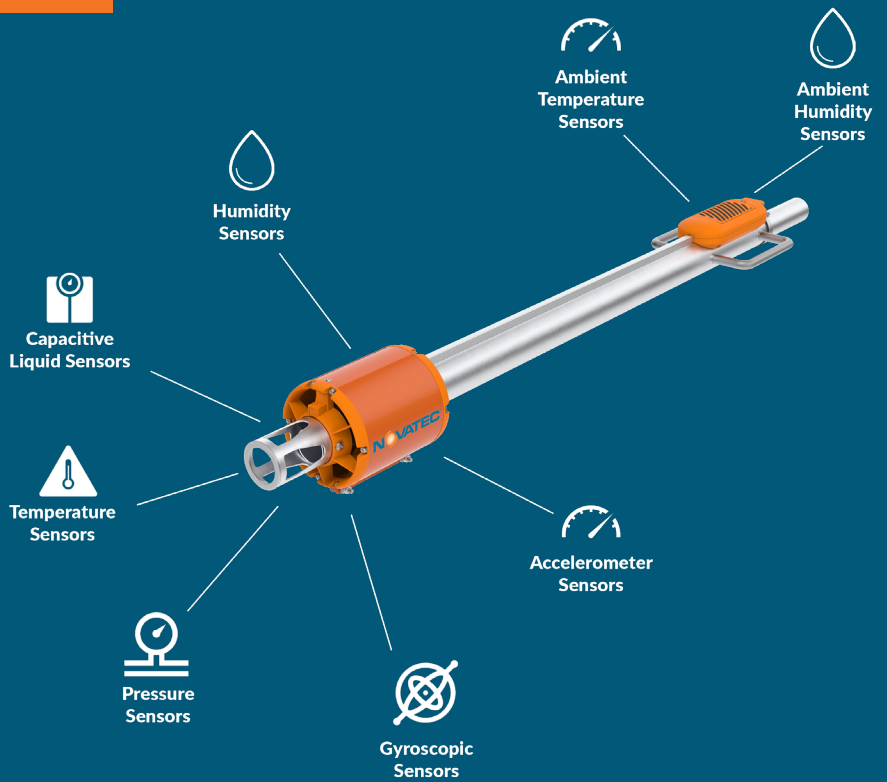
A sensor compartment located near the bottom of the lance takes thousands of readings of the resin samples. This data is sent to the AI processor which also measures ambient conditions to calculate the optimized drying parameters.

Data is sent to the dryer control which automatically adjusts the drying parameters, including residence time, blower speeds and temperatures for the most perfectly dried parts in the least amount of time.

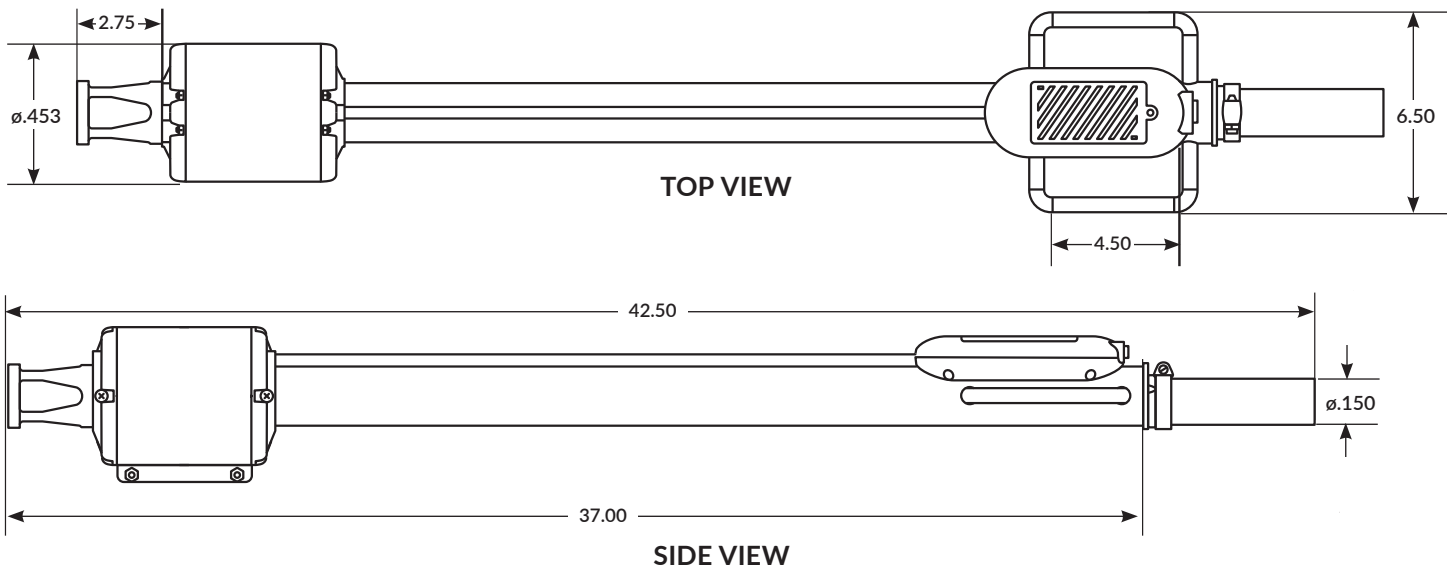
How the Dryer Genie Works...

The Dryer Genie consists of a capacitance sensor that measures the dielectric constant of plastics. Since moisture presents a very high dielectric constant compared with the low dielectric constant of plastics, moisture can be precisely and reliably detected. The Dryer Genie also has accelerometer and gyroscope sensors installed near the bottom of the material pickup lance to ensure reliable inline sampling. The moisture is measured from the lance's cavity on a part per million (PPM) basis before it is drawn into the dryer for further processing.

The plastic pellets' initial and ongoing moisture content is continually communicated to the dryer control, where drying parameters like blower speeds, temperature, and drying times are automatically fine-tuned to dry the resin in the shortest time, with the least energy possible to the manufacturer's prescribed dryness level.



DIMENSIONS (Measurement units are in inches)



Item	Weight (lb/kg)
1.5" Stainless Lance with Moisture Genie	10.5/4.8

Note:

Power is connected to and provided by the dryer.