



NWB NovaWheel™ Dryers

NWB and NWB+ Dryers Series

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

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



NWB-50+

NWB+ models include these unique features:

7" Hi-Res Color Touch Screen PLC Control

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

OverDry Protection

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

Intuitive Control with Diagnostics Guide

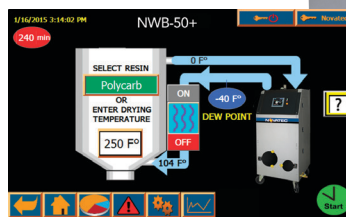
A trouble shooting guide, complete with photos on the touch screen walk you through operational alarms as well as routine maintenance.

Ethernet Ready Plus SD Card

Smart Ethernet connection with data logging and trending.

Networking Capability

ColorNet™ networkable color HMI



7" Color Touch Screen

Standard Features - All Models

Intelligent Regeneration

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

Standard Three Phase Detection

Detects phase error and provides alarm.

Auto-Start/Stop Timer

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

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.

Central Dryer Models

Available on -200+ and up.

Dryer/Hopper Models and Dry/Convey Models Available

See separate data sheets.

No-Charge Standards

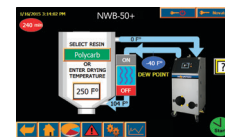
- Dew point analyzer with indication and alarm
- Red/green alarm light

5-Year Warranty

For lowest cost of ownership.

NWB-25 through -200 models

Includes a 4" color touch screen PLC control and standard features shown, plus USB memory stick for data logging and trending.



4" Color Touch Screen

Plus

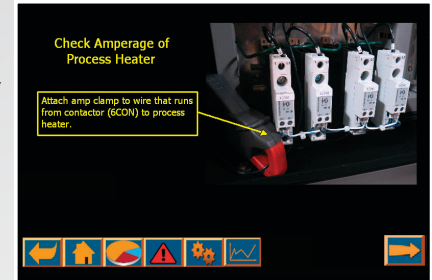
- › Separate process and regeneration blowers
- › Cooling coil with plasticizer drain for temperatures above 225°F
- › -40° Dew point guaranteed
- › Open access to all components
- › 5" Casters for mobility
- › Process temperatures up to 350°F (177°C) with interlock to heaters
- › 460/3/60 VAC standard
- › 5-Year warranty

Raising the Bar for Mobile Wheel Dryers

—5—
YEAR
warranty

Smart upgraded software senses faults and pictorially guides you to a solution

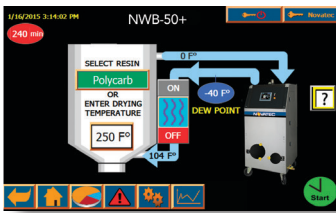
Standard LED alarm light



Smart PLC touchscreen makes setup easy



1. Select resin



2. Start drying

Automatically tells you when to change filters

Siemens PLC with 4" or 7" high resolution color touch screen

Dew point included at no extra charge

Standard data logging

Ethernet ready (Plus models)

Exclusive OverDry protection
Ideal for Nylon and other sensitive materials (plus models)

5-year desiccant wheel warranty on all models

Minimizes energy consumption by continuously adjusting heater and air temperatures

Standard phase detector avoids phase issues when moved around plant

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

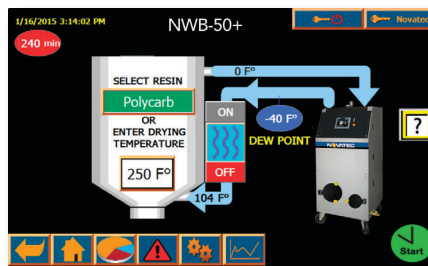
- › Upgraded Siemens PLC with 4" or 7" high resolution display
- › Automatically detects and avoids over-drying (Plus models)
- › Displays drying faults and uses pictorial solution screens
- › Smart Ethernet connection with data logging (Plus models)

NOVATEC™

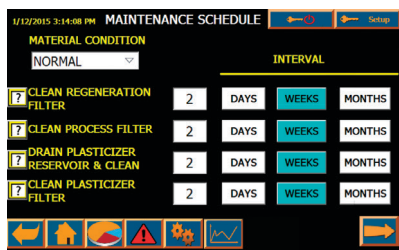
Siemens Color Touch Screen PLC Control Equals **Convenience and Reliability**

Another Novatec FIRST...

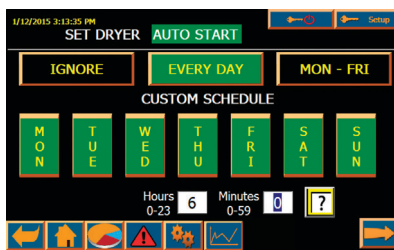
- › No more confusing codes
 - › No annoying function buttons
 - › No manual look-ups
- Simply touch any of the intuitive icons to access related screens.



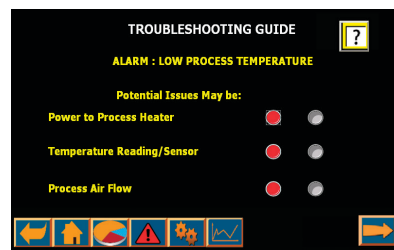
Operation Screen



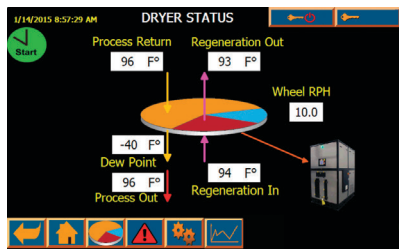
Maintenance Schedule



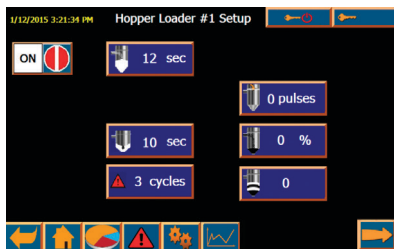
Auto-Start/Stop Menu



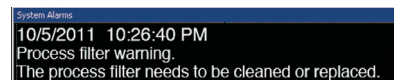
Troubleshooting Guide



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!

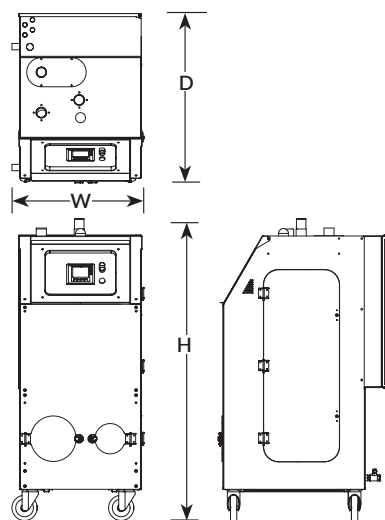
*By Novatec only

Specifications:

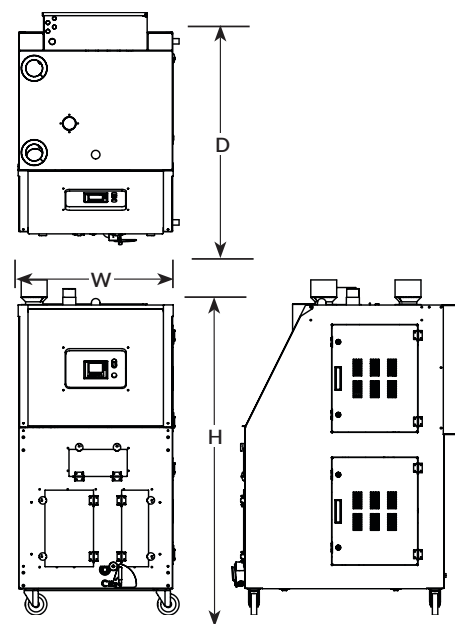
Model Number*	Width		Depth		Height		Air Connection		Throughput Capacity**			
									@460/3/60		@415/3/50	@575/3/60
	in	cm	in	cm	in	cm	in	cm	lb/hr	Kg/hr	Kg/hr	Kg/hr
NWB-25+	24.2	61.5	32.7	83.0	59.7	151.6	2	5	25	11.5	10	11.5
NWB-50+							2	5	50	22.7	19	22.7
NWB-75+							2	10	75	34.1	29	34.1
NWB-100+	32.7	83	35	88.6	67.2	171	4	10	100	45	38	45
NWB-150+							4	10	150	68	57	68
NWB-200+							4	10	200	91	74	91
NWB-300+	35.7	90.7	53.8	137	77.6	197	6	10	300	136	110	136
NWB-400+							6	10	400	182	147	182

*Specify + after model number for 7" color screen. Delete + for 4" color screen on -25 through -200. **Based on polycarbonate pellets @ 38 lb/ft³

NOTE: Central Dryer models available from -200+ and up. Add -C+ after Plus model number. Process heaters for Central Dryer models are designed to mount on a Novatec hopper. A separate stand may be required if using with a non-Novatec hopper - Inquire for pricing.



NWB-25 through NWB-200



NWB-300 through NWB-400

Options:

Thermal+ For All Plus Models: Ensures that new heat-sensitive resins are dried properly. See next page.

Central Dryer Networking with CDA 2's:

1 dryer control accessing up to 16 dedicated CDA2's
Up to 4 dryers accessing up to 48 shared CDA2's

Water Saver: Reduces energy usage by ensuring that no more cooling takes place in an external cooling coil than is required (Plus models).

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

Accessories:

External Process Air Cooling Coil on Stand or on Stand with Plasticizer Trap: (Applies to -300 and -400 models only.) Drying temperatures less than 170°F (77°C) require an external process air cooling coil. Please contact factory for options.



Thermal+™ Option for NWB+ Series

Protection from Over-Drying for Sensitive Resins

NWB+, NWB-DC+ and NWB-HC+ press-side dryers now available with Thermal+ option

NWB+ series press-side dryers up to 150 lb/hr can now be equipped with Thermal+ from Novatec to ensure that new heat-sensitive resins are dried properly.

Processors are being inundated new resins with which they have no previous experience. If they are not dried to the required specifications the molded products produced are subject to rejection due to stringent quality control requirements or they fail prematurely in the field.

**— 5 —
YEAR
warranty**



How Thermal+ Works...

Automatically Controlled Valving Changes

Sensor measurement out of the drying hopper determines whether moisture is being pulled from the resin, or if the resin is already dried to the appropriate moisture level.

If The Resin Requires More Drying

The sensor in the hopper outlet signals this condition, and dry air is introduced into the loop automatically.

When The Resin Is Dry

The blower loop will exclude the desiccated -40°F/C air and recirculate heated air.

Additional Drying Is Required At Any Point

Dry air is introduced into the loop automatically and when the desired dryness is achieved, the desiccant wheel is again bypassed automatically.

All Of These Operations Occur Without Any Operator Intervention

Each resin can have a recipe that always ensures proper resin moisture.

Order option for NWB+ and NWB-HC+

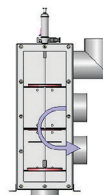
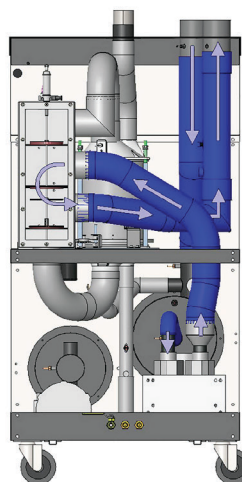
KIT-NWB75-HX-01 for -25, -50 and -75 models

KIT-NWB150-HX-01 for -100 and -150 models

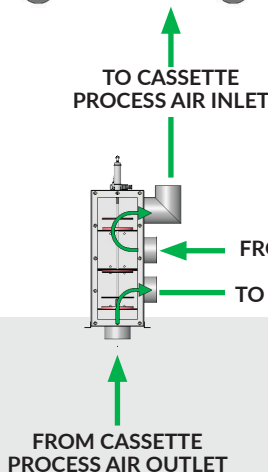
Order option for NWB-DC+

KIT-NWB75-HX-02 for -25, -50 and -75 models

KIT-NWB150-HX-02 for -100 and -150 models



← FROM PROCESS BLOWER —
— TO PROCESS HEATER LINE →



↑ FROM CASSETTE
PROCESS AIR OUTLET

