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

This portable hopper/dryer combination is designed to add a vacuum loader and dry material anywhere in your plant. The energy saving NovaWheel<sup>™</sup> dryer design includes a 4 or 7-inch color touch screen PLC that is easier to use than any other dry/convey control.



NWB-HC And NWB-HC+ Portable Dryer/Hopper Series

NWB-50-HC+

# NWB-HC+ 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<sup>™</sup> 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

Detects phase error and provides an 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 an 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.
  - **Hopper and Dryer Uncouple** For use as separate units.



Seven-inch Color Touch Screen

## No-Charge Standards

- Dew point analyzer with indication and alarm
- Red/green alarm light
- > 5-Year Warranty

For lowest cost of ownership.

## NWB-HC-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)
- > -40° dew point guaranteed
- > Open access to all components
- Process temperatures up to 350°F (177°C) with interlock to heaters
- > Five-inch casters for mobility
- > 460/3/60 VAC standard
  > 5-Year warranty on ALL models



# **Raising the Bar** for Mobile Wheel Dryers



Standard stainless steel insulated hopper.

Automatically adjusts air temperature based on monitoring to regulate temperature in hopper.

Standard LED alarm light.

# Smart PLC touch screen makes setup easy

1/14/2015 9:	28/21 AM	RESIN MEN	U HO	PPER #2	+0		Novito
Select	Material	Drying Temp F*	min	Select	Material	Drying Temp f*	min
Poly	rcerb		240	Aar	ylic		240
Nyk	on 6		240	Spe	re		240
Nyk	on 66	160	240	Spe	<b>re</b>	150	240
PET			240	Spe	re		240
ABS		180	240	Spe	70	150	240

1. Select resin



2. Start drying





- Siemens PLC with 4 or 7-inch 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.
- Minimizes energy consumption by continuously adjusting heater and air temperatures.
- Standard phase detector avoids phase issues when relocated.

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

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

> Automatically detects and avoids overdrying (Plus models).> Smart Ethernet connection with data logging (Plus models).

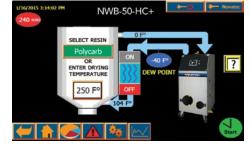


# Siemens Color Touch Screen PLC Control Equals Convenience and Reliability

## 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** 

MON - FRI

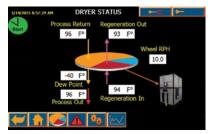
	TROUBLESHOOTING GUIDE								
Potential Issues May be	e:								
Power to Process Heater	۲	۲							
Temperature Reading/Sensor	۲	۲							
Process Air Flow	۲	۲							
🗲 🔒 💽 🛦 🍇 🗠	$\sim$								
Troubleshooti	ng Gu	ide							

Iroubleshooting Guide

#### 10/5/2011 10:26:40 PM Process filter warning. The process filter needs to be cleaned or replaced. Process and Regeneration Filter

Process and Regeneration Filter Conditions are Automatically Monitored and Displayed.

MATERIAL CONDITION	INCE SU		INTERVAL	Setup
		_		
CLEAN REGENERATION	2	DAYS	WEEKS	MONTHS
CLEAN PROCESS FILTER	2	DAYS	WEEKS	MONTHS
PRAIN PLASTICIZER RESERVOIR & CLEAN	2	DAYS	WEEKS	MONTHS
CLEAN PLASTICIZER	2	DAYS	WEEKS	MONTHS
	¢ <sub>0</sub>	$\sim$		
Mainten	ance	Sche	dule	



**Dryer Status Screen** 



SET DRYER AUTO START

IGNORE

EVERY DAY

CUSTOM SCHEDULI

Setup Screens for Hopper and Machine Loading

Features	NovaTouch Control
Touch Screen Entry	Standard
Control Temperature #1	Standard
Second Set-point	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

\*By Novatec only



Main Features:

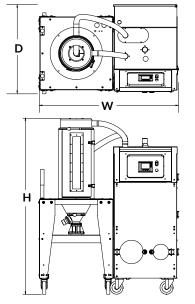
- > Intuitive touch screen for ease of operation
- > No confusing alarm codes to look up
- > Seven day timer for auto on/off
- > Filter maintenance alerts with oversized filters
- > Set points with deviation limits
- > Dew point sensor
- Real-time clock with battery backup

## **SPECIFICATIONS**

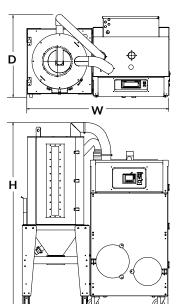
	Width Depth		Height		Air		Hopper		Throughput Capacity**									
Model Number*			Beptil		rieigin		Connection		Capacity**		@460/3/60		@415/3/50	@575/3/60				
	in	cm	in	cm	in	cm	in	cm	lb	kg	lb/hr	kg/hr	kg/hr	kg/hr				
NWB-25-HC+	55.7	4.40	1 4 0	140	1 1 0	00.0	02.0	67.3	171	2	5	55	25	25	11.5	10	11.5	
NWB-50-HC+	55.7	142	32.8	83.0	70.6	179	2	5	110	50	50	22.7	19	22.7				
NWB-100-HC+		51.4 156	4.5.4			79.2	201	4	10	220	100	100	45	38	45			
NWB-150-HC+***	61.4		33.9 84	84	92.7	235	4	10	330	150	150	68	57	68				
NWB-200-HC+***	70.6	70 (	70 (	70 /	70 /		37.1	94	93.5	237	6	10	600	272	200	91	74	91
NWB-300-HC+***		1/9	51	130	106.2	270	6	10	800	363	300	136	110	136				

\*Specify + after model number for 7-inch color screen. Delete + for 4-inch color screen through -200. \*\* Based on polycarbonate pellets @ 38 lb/ft<sup>3</sup>

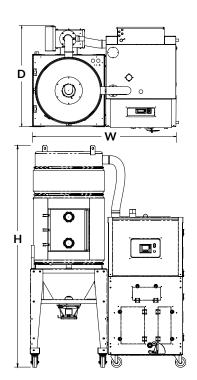
\*\*\*Casters or hopper extension are packed separately to avoid extra freight charges due to height. NOTE: Dimensions and throughput are the same for -HC and -HC+ models.



NWB-25-HC+ through NWB-50-HC+



NWB-100-HC+ through NWB-200-HC+



NWB-300 -HC+

## **OPTIONS**

## > Thermal+ For All Plus Models

Ensures that new heat- sensitive resins are dried properly. *See seperate data sheet.* 

## > 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

- Stainless Steel Hopper Extensions for -HC and -HC+ 25 lb for -25, 70 lb for -50, 110 lb for -100, 200 lb with or without sight glasses for -200 and -300.
- 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.



# Thermal<sup>™</sup> Option for NWB+ Series

Protection from Overdrying 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.

## 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  $-40^{\circ}$  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.

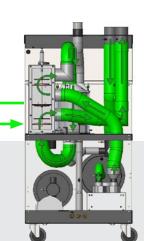


KIT-NWB75-HX-01 for -25 and -50 models KIT-NWB150-HX-01 for -100 and -150 models

Order option for NWB-DC+ KIT-NWB75-HX-02 for -25 and -50 models KIT-NWB150-HX-02 for -100 and -150 models FROM CASSETTE PROCESS AIR OUTLET

TO CASSETTE PROCESS AIR INLET

> FROM PROCESS BLOWER TO PROCESS HEATER LINE



FROM PROCESS BLOWER

100

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