

NovaDrier ND3 Series Desiccating Cartridge Dryer



The only resin dryer with the Lifetime Desiccating Cartridge & patented Dual Drying Zones – perfectly dried resin, every pellet, every run.

NovaDrier is the industry's only Desiccating Cartridge Dryer – delivering full desiccant-class performance without a single gram of loose desiccant anywhere in the system. No blowers, no motors, no rotary components of any kind. Only two filter changes once per year. Now with a new PLC color touchscreen and optional Dry/Convey configuration.

Lifetime Desiccating Cartridge

The desiccant-free desiccant dryer. Permanently potted hollow fibers – guaranteed up to -40°F or lower dew point for the life of the dryer, with no loose desiccant, no desiccant dust, and no replacement. Ever.

No Blowers. No Motors. No Rotary Components.

A venturi air amplifier replaces every mechanical moving part, using 2.5 times less compressed air than conventional compressed air resin dryers – nothing to wear, nothing to service, nothing to fail.

New PLC Color Touchscreen

Modbus, Ethernet, and full system integration out of the box.

Patented Dual Drying Zones

Two simultaneously active zones eliminate the cold upper hopper problem single-flow designs have never solved – upper zone removes up to 80% of moisture, lower finishing zone drives out the remaining internal moisture – every pellet exits to spec.

Near-Zero Maintenance

Two filter changes once per year. That is your entire annual maintenance commitment.

Dry/Convey Package Option

Takes resin from a Gaylord, dries it to spec, and delivers it dried and ready to the production machine.

7-Day Programmable Timer

Pre-dry resin before your team arrives. Compressed air shuts off automatically when not in use.



ND3-25 NovaDrier™


ND3-25 NovaDrier™
Showing new Dry/Convey Option

Also Includes

- Desiccant-free drying for all thermoplastics – low and high temperature applications
- Guaranteed -40°F or lower dew point in less than 4 minutes
- Process temperatures up to 350°F (177°C)
- No cooling water required
- Works with any compressed air source – refrigerated or pre-dried air not required
- Stainless steel hopper standard through 150 lb (68 kg) capacity
- Insulated hopper on all models
- Machine mount or stand mount
- Dew point meter
- Over-temperature and low air pressure indicators
- Energy Saver option available
- Lifetime Warranty – Lifetime Desiccating Cartridge
- 5-Year Novatec Promise – Machine

Baltimore, MD 21225 USA 410-789-4811 | Fax: 410 789-4638 | sales@novatec.com | www.novatec.com

The Only Dryer With Lifetime Desiccating Cartridge Technology & Patented Dual Drying Zones

Desiccant beads degrade, generate dust, and contaminate your process. Every other resin dryer leaves the upper resin bed cold and under-dried. NovaDrier's Lifetime Desiccating Cartridge and patented Dual Drying Zones eliminate both problems permanently.

The Lifetime Desiccating Cartridge

- Permanently potted fibers - never move, never wear, never degrade
- Zero desiccant dust - no contamination risk to your process or parts
- Guaranteed -60°F or lower dew point for the life of the dryer
- Cartridges from 1999 still performing identically today
- Automatically compensates for compressor fluctuations - consistent dew point regardless of compressor condition, service intervals, or ambient humidity



Dual Drying Zones

UPPER ZONE

Removes $\geq 80\%$ of moisture.

LOWER ZONE

Finishing zone ensures every pellet is dried to spec.



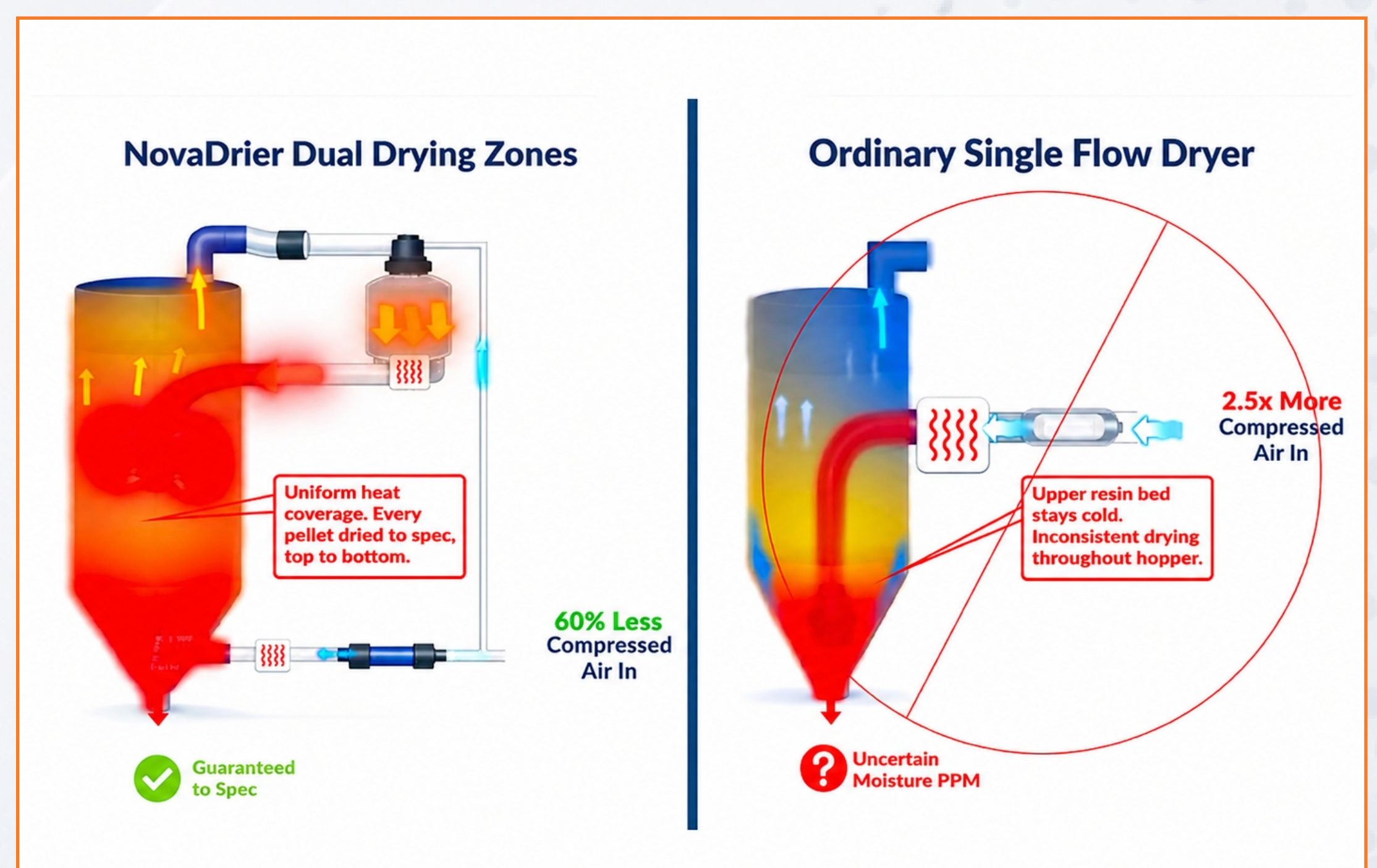
NovaDrier
by NOVATEC

Patented Dual Drying Zones

- Ordinary single-flow dryers leave the upper resin bed cold - hidden internal moisture causes splay, brittleness, and inconsistent parts
- NovaDrier's two simultaneously active zones deliver uniform heat top to bottom
- **Upper zone:** removes 75–80% of moisture
- **Lower zone:** finishing stage - every pellet exits to spec
- **Result:** consistent pellet rheology at the machine - consistent melt behavior, injection pressures, and part quality every run

How Dual Drying Zones Work

- Return air recaptured from top of hopper instead of vented to atmosphere
- Amplified 5X through venturi air amplifier powered by a minimal compressed air draw
- Reheated and delivered into middle of hopper - creating powerful upper drying zone
- Lower zone simultaneously delivers ultra-low dew point air from cartridge
- Both zones active from the moment NovaDrier starts - continuously



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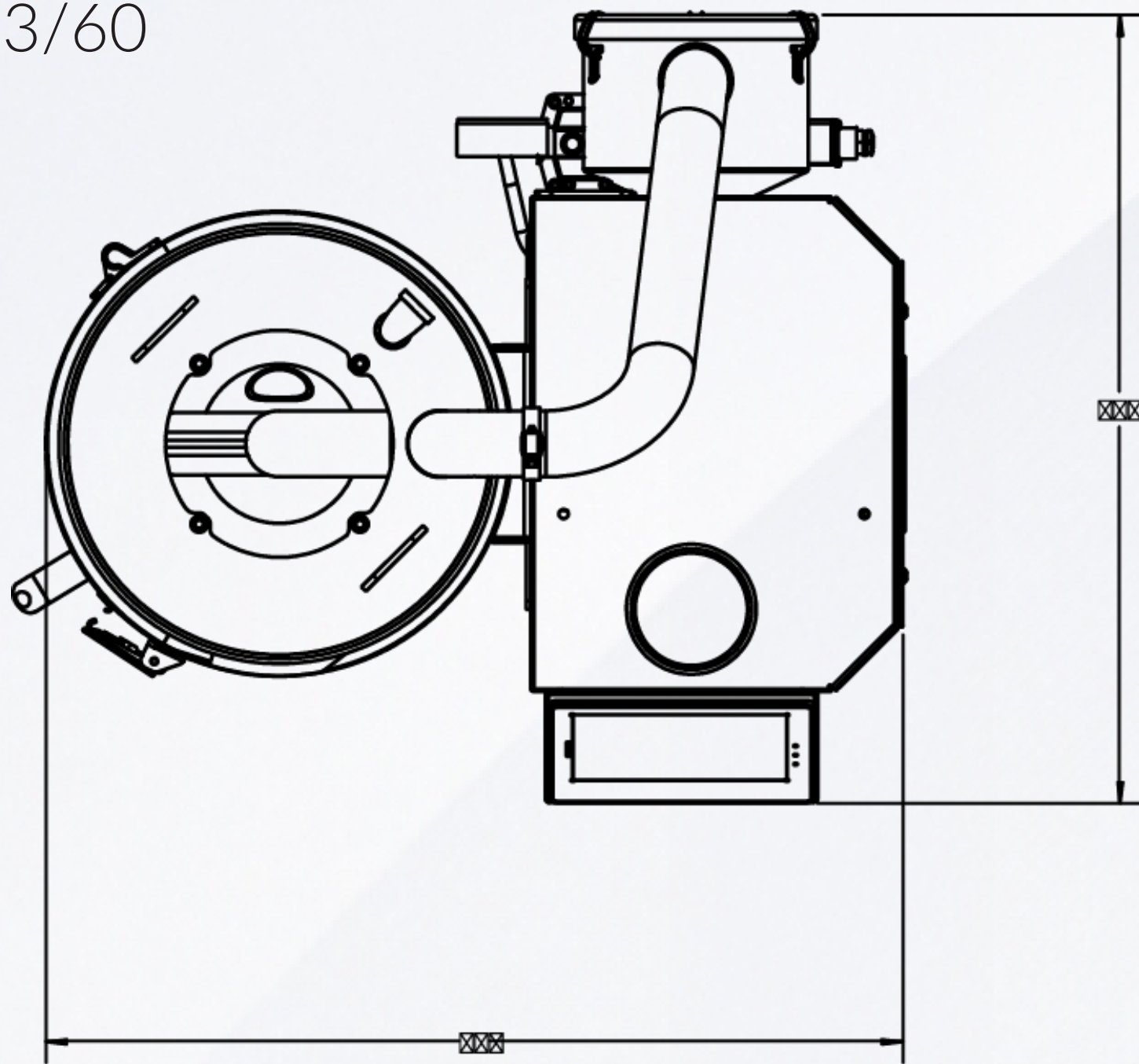
Specifications:

Model	††Throughput Capacity		Compressed Air Flow		Electric *Demand **Usage		H		W		D		†Shipping Weight		Hopper Volume		Hopper Capacity	
	lb/hr	Kg/hr	SCFM	NM ³ /hr	kW	kW	in	cm	in	cm	in	cm	lb	Kg	ft ³	liters	lb	Kg
ND3-7	7	3.2	2.6	4.4	15.6 ⁴	0.21	30.6	77.7	23.9	60.7	23.5	59.7	235	106.8	6.18	175.0	20	9.1
ND3-25	25	11.4	5.7	9.7	15.6 ⁴	0.68	44.8	113.8	23.9	60.7	25.8	65.5	324	147.3	8.53	241.3	60	27.3
ND3-50	50	22.7	11.9	20.2	7.7 ⁵	1.35	62.2	158.0	26.9	68.3	26.9	68.3	370	168.2	9.74	275.6	150	68.2
ND3-100	100	45.5	24.8	42.2	13.3 ⁵	2.70	79.0	200.7	30.9	78.5	38.7	98.3	670	304.5	17.63	499.0	400	181.8

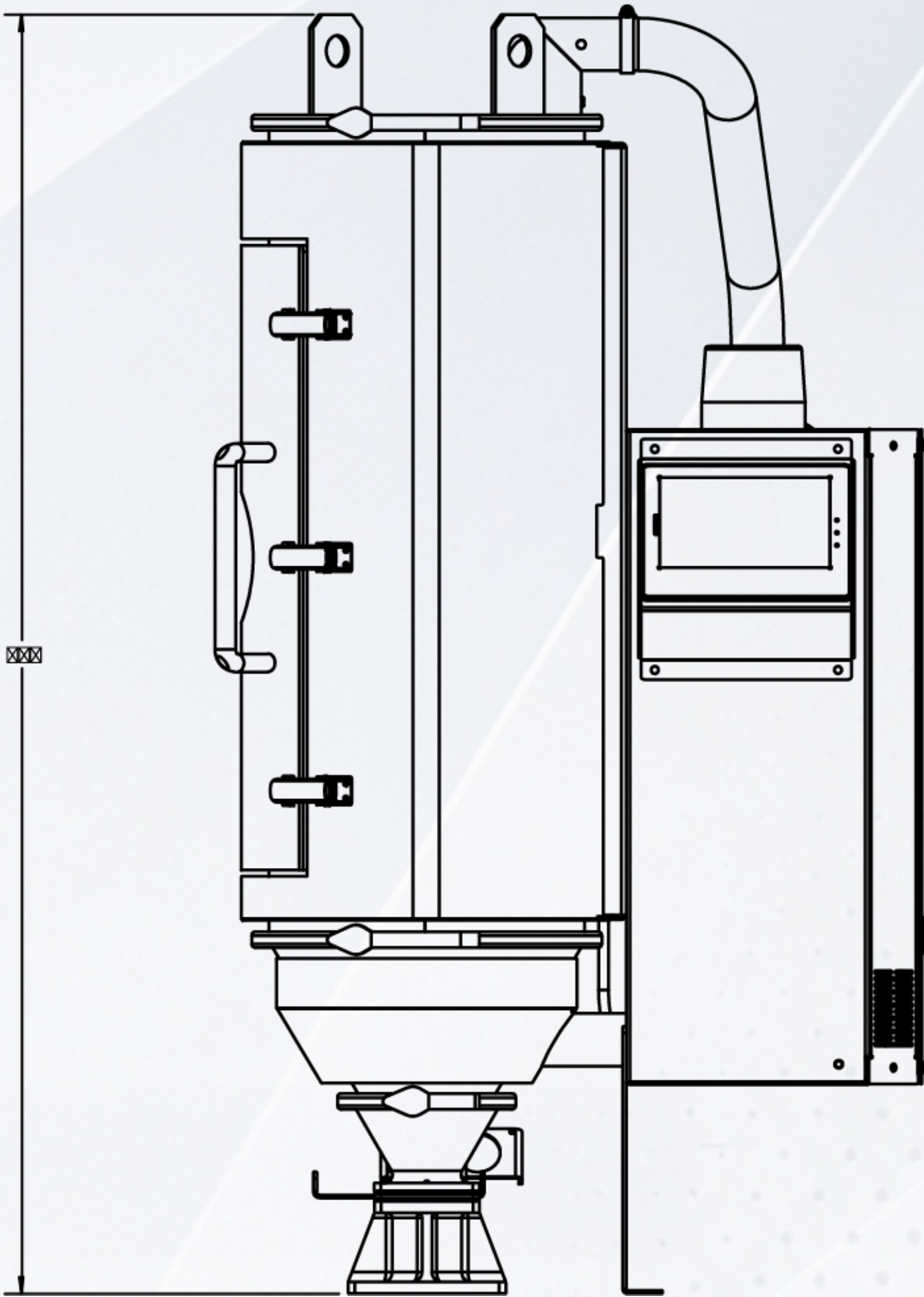
i: Based on ABS (180 F)

4: Based on 115/1/50-60

5: Based on 460/3/60



Bolt hole patterns:
4.75" sq. for ND3-7 through
ND3-50, 6" sq. for ND3-100
through ND3-200



Options:

Short Run Diffuser Tube: Available on ND3-25 through ND3-50

Stainless Steel Contact Surfaces

Inside Hopper: For ND3-100 through (Standard on ND3-25 through ND3-50)

Alternate Voltage:

220/1/50-60 for ND3-7 through ND3-50 (No Charge)
415//3/50 for ND3-25 through ND3-100 (No Charge)
575/1/60 for ND3-25 through ND3-100

Dry/Convey Packages:

Available as ND3-25-DC, ND3-50-DC, ND3-100-DC.
VR-5 machine-mount vacuum receiver, regenerative blower, VL-12 Loader, line purge device, 1.5" probe, floor stand w/ 5" casters and LOGO! controls
Standard Voltage 460/3/60 (415/3/50 and 575/3/60 available as options)

Accessories:

Hopper Extension: For ND3-25 through ND3-100

Floor Stand: For ND3-25 through ND3-200

Casters, 5", set of 4

Vacuum Take-off Box or Vacuum Purge Valve:

Request information

Optional Stand facilitates unloading of resin