



NovaDrier ND3 Series Dual-Flow Compressed Air Resin Dryer

The patented Dual-Flow design and FiberMax™ Lifetime Membrane eliminate drying inconsistency and use 65% less compressed air than single-flow dryers.

The NovaDrier is the industry's only patented Dual-Flow compressed air dryer, with thousands sold worldwide and proven to dry all thermoplastic resins. Ordinary single-flow dryers can't match NovaDrier's performance because they suffer from two fatal flaws: inconsistent drying due to fluctuating compressor dew points, and poor airflow distribution that leaves the upper resin bed cold and under-dried. NovaDrier eliminates both problems while using 65% less compressed air than single-flow dryers—allowing you to scale to 100 lb/hr without maxing out your plant compressor. Now enhanced with a new PLC color touchscreen and Optional Dry/Convey Configurations.

Patented Dual-Flow Design: The Real Breakthrough

Recaptures dry air from the top of the hopper, amplifies it 5X with a venturi system, reheats it, and delivers it back into the middle—creating two powerful drying zones. Upper zone removes 75-80% of moisture; lower zone finishes the job. Every pellet exits perfectly to spec with uniform heat distribution throughout.

FiberMax™ Lifetime Membrane Eliminates Inconsistency

Guarantees -40°F or lower dew point process air year-round, regardless of compressor condition, service intervals, or ambient humidity. FiberMax™ automatically compensates for compressor drift, ensuring consistent drying performance every single day. Not a consumable—guaranteed for life.

65% Less Compressed Air

Uses 65% less compressed air compared to single-flow dryers. For example, a 50 lb/hr NovaDrier uses just 10 CFM—the same air demand single-flow systems need to dry only 10 lb/hr. NovaDrier scales to 100 lb/hr without maxing out your plant compressor.

7-Day Programmable Timer

Program your weekly drying schedule so resin is pre-dried before your team arrives. Automatically shuts off compressed air when not in use.

New, Easy-To-Use PLC Touchscreen

Featuring a new PLC-based control with a 7" color HMI touchscreen for easy, intuitive operation. Enhanced connectivity allows seamless interfacing with Novatec systems and many third-party platforms.

Zero Uncertainty with Near-Zero Maintenance

No moving parts. No desiccant to regenerate. No blowers, wheels, or beads. Just two filter changes once per year. One customer runs 75 NovaDriers with one maintenance person changing filters once annually. No downtime. No repair calls. Just reliable drying, day after day.

High & Low Temperature Drying Without Water

There is never a need for cooling water, even for low temperature drying applications, increasing operational flexibility, reducing costs, and broadening application scope sustainably.

Dry/Convey Option

With Dry/Convey option the ND has everything necessary to take resin from a Gaylord and deliver the dried resin to the production machine.

5-Year Warranty

For lowest cost of ownership.



ND3-25 NovaDrier™



ND3-25 NovaDrier™

Showing new Dry/Convey Option

Plus

- Desiccant-free drying for all thermoplastics for both low and high temperature drying applications.
- Compressed air automatically turns off when dryer is not in use.
- Constant -40° or lower dew point process air in less than 4 minutes
- Works with any source of compressed air... refrigerated or pre-dried air is not required
- Energy Saver standard on ND-100 through
- Standard process temperatures up to 350°F. (177°C)
- Stainless steel hopper standard through 150 lb (68 Kg) capacity
- Dew point meter
- Slide gate drain-port and slide-gate discharge on all hoppers
- PLC temperature controller
- Machine mount or stand mount models
- Insulated hopper on all models
- Over-temperature indicator
- Low air pressure indicator
- Return air pellet screen
- 5-Year warranty
- Optional Energy Saver available
- 7-Day Timer Standard

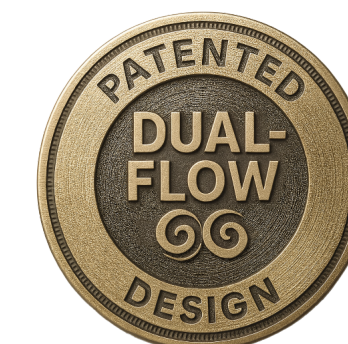
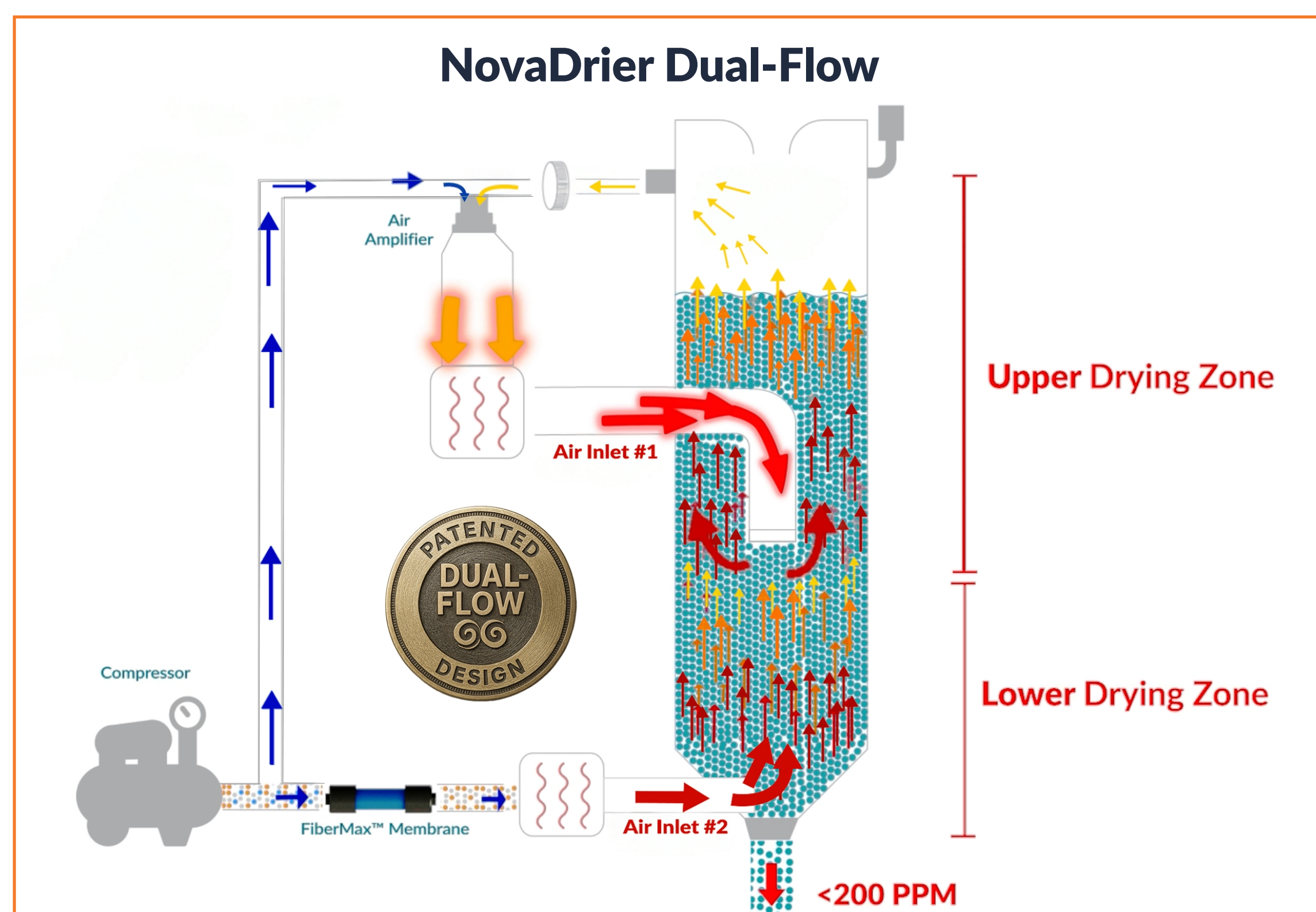
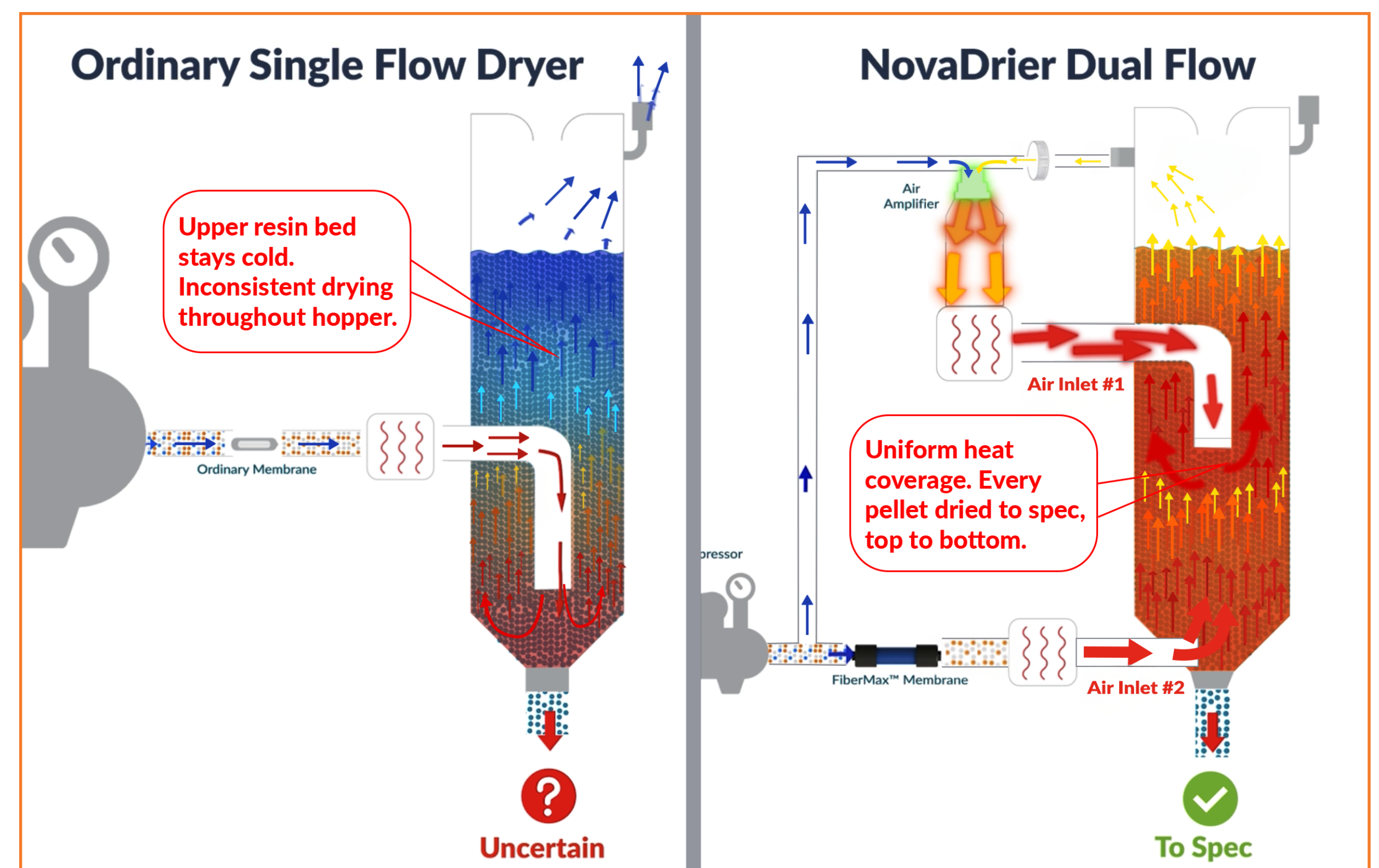
Two Innovations That Eliminate Uncertainty

Ordinary compressed air dryers have plagued processors with two problems for decades: inconsistent drying performance and poor airflow distribution. NovaDrier's patented Dual-Flow design and FiberMax™ Lifetime Membrane eliminate both problems completely.

The Patented Dual-Flow Advantage

Uniform heat distribution throughout: Ordinary single-flow dryers leave the upper resin bed cold and under-dried with uncertain results.

NovaDrier's patented Dual-Flow delivers uniform heat throughout, ensuring every pellet exits to spec.



How Dual-Flow Works

Dual-Flow recaptures dry air from the top of the hopper, amplifies it 5X, reheats it, and delivers it back into the middle—creating two powerful drying zones.

Upper Zone: Removes 75-80% of moisture

Lower Zone: Finishes the job—every pellet exits to spec

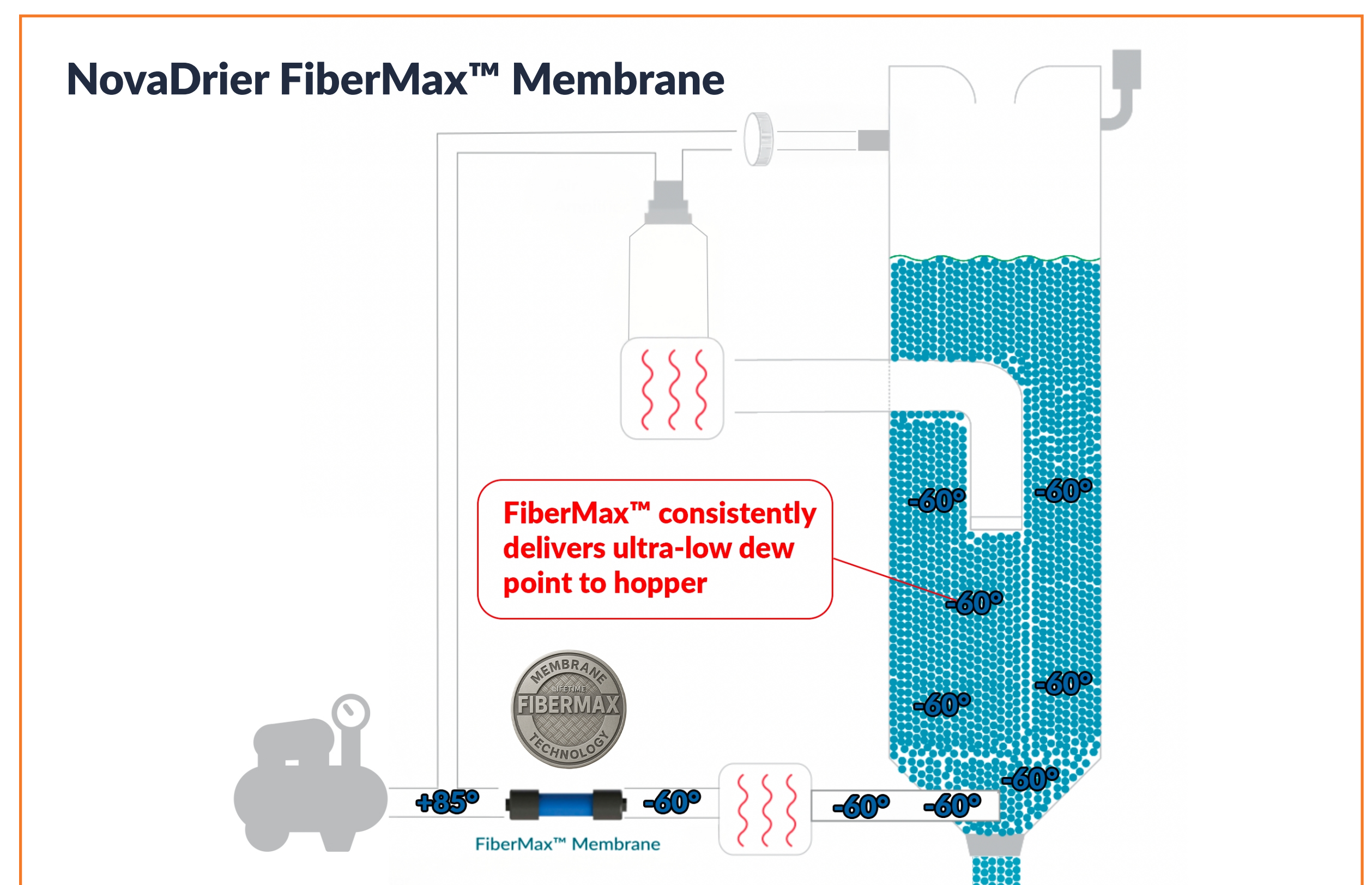
Result: 65% less compressed air. Scales to 100 lb/hr without maxing out your plant compressor.



The FiberMax™ Lifetime Membrane

FiberMax™ eliminates inconsistency: Your compressor's dew point drifts from +50°F to +85°F without warning. Ordinary membranes can't compensate—parts that dried to 200 PPM yesterday come out at 800 PPM today.

FiberMax™ Lifetime Membrane consistently delivers ultra-low dew point process air regardless of your compressor's inconsistencies.



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

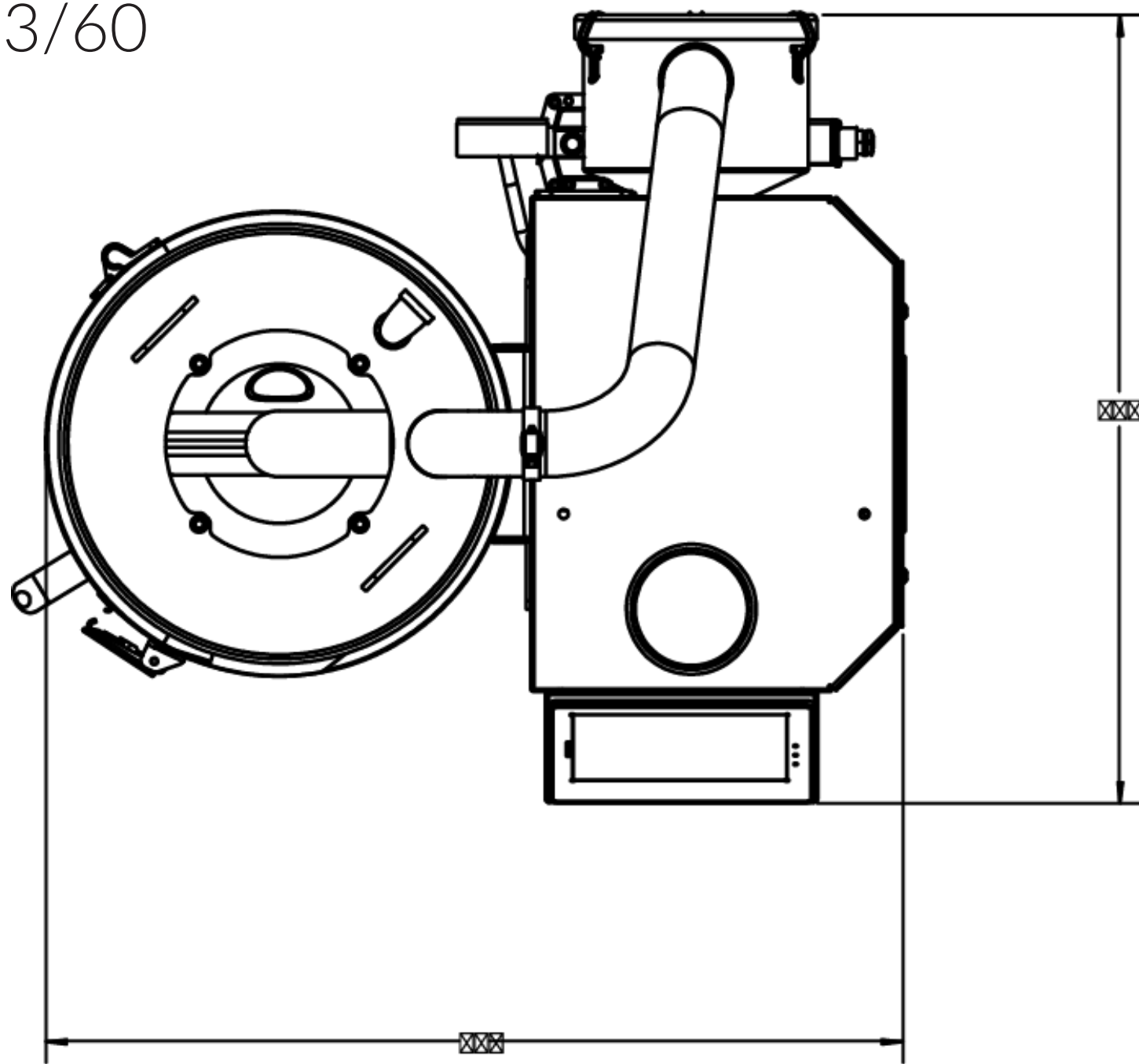
Specifications:

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
ND3-75	75	34.1	17.0	28.9	7.7 ⁵	2.20	56.0	142.2	26.9	68.3	26.9	68.3	520	236.4	13.68	387.3	220	100.0
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

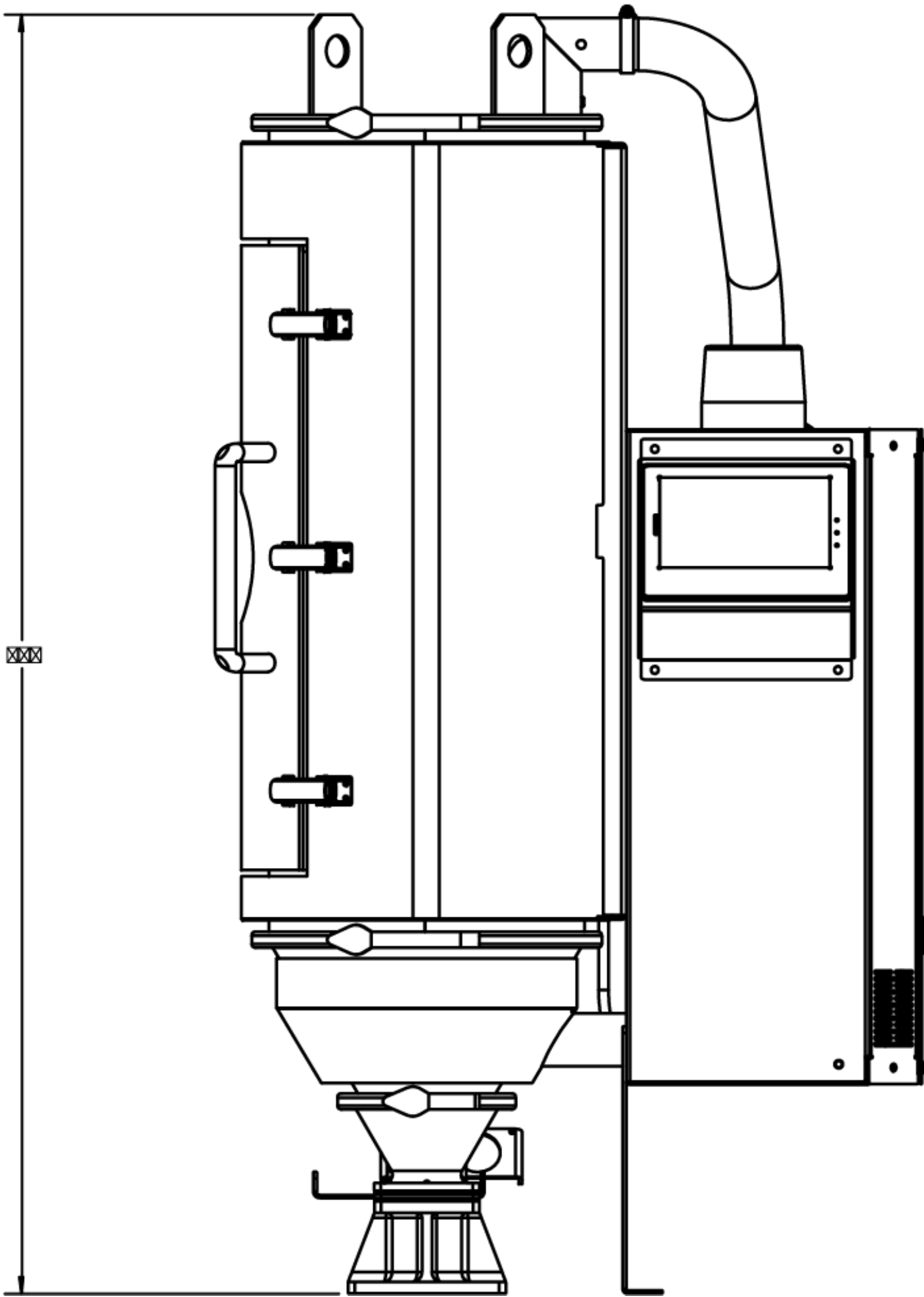
i: Based on ABS (180 F)

4: Based on 115/1/50-60

5: Based on 460/3/60



Bolt hole patterns:
4.75" sq. for ND3-7 through
ND3-75, 6" sq. for ND3-100
through ND3-200



Options:

Short Run Diffuser Tube: Available on ND3-25 through ND3-75

Stainless Steel Contact Surfaces

Inside Hopper: For ND3-100 through (Standard on ND3-25 through ND3-75)

Alternate Voltage:

220/1/50-60 for ND3-7 through ND3-75 (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, ND3-75-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