

# RAPTOR SERIES



THE  
LEADER  
IN  
SPRAY  
BOOTH  
APPLICATIONS

 **paintbooth.com**  
1-800-637-4027 *Start here, finish here!*





The Allen-Bradley Touchpad with Self Diagnostics

## Raptor Series

Step inside a Raptor Series paint booth from Nova Verta and see how it outshines competitive systems. It's more than the strategically placed lighting that provides uncompromising illumination. Three operating modes add to its distinction – and make it the most cost effective paint booth system in its class.

With high-quality Allen Bradley PLC controls, indirect heating, and a variable frequency drive on the exhaust fan, Raptor Series is engineered to ensure ideal painting conditions while conserving energy and offering superior airflow to expedite curing times.

## Complete Efficiency

Like all Nova Verta spray booth systems, the Raptor Series uses three distinct operating modes to maximize the energy efficiency of the *complete* painting process.

### Prep Cycle

Nova Verta's first operating mode, the Prep Cycle, optimizes booth conditions while final masking and tack off is performed. Using a variable frequency drive and make-up unit with a stainless steel heat exchanger, the Nova Verta system warms air and safely recirculates it through the booth – without exposing operators to the dangers of carbon monoxide.

*No other paint booth system provides a Prep Cycle that creates OSHA-mandated working conditions, heats the air, maintains air pressure, brings metal to the desired spray temperature, and generates monthly utility savings of 35% or more when compared to competitive systems in its class.*

### Spray Cycle

Once prep work is completed, a single press of the Touchpad Controller shifts the Nova Verta booth operation to the Spray Cycle. At this stage, a steady stream of freshly heated air is provided into the booth and a constant, ideal booth pressure is automatically maintained at a minimum without the use of a damper or operator intervention.

### Cure Cycle

After the painting process is complete, another press of the Touchpad controller puts the booth in Cure/Bake Cycle. The Bake Cycle, like the Prep Cycle, effectively re-circulates air, minimizing electricity usage and fuel consumption. Compared to other systems in its class, the Raptor Series provides higher-velocity airflow, shortening cure times on conventional and waterborne paints.





Quality Designed Door Hardware



Raised Base with Inside Ramp

*Raptor Series is  
engineered to improve  
the efficiency of the  
complete painting  
operation – and we  
can prove it.*

*Contact us today for  
a cost comparison.*



Post Filtration System  
(Optional)



Direct Drive Turbine Exhaust Fan

## Total Quality

In addition to three distinct operating modes, tailored to reduce overall energy costs, the Raptor Series features the hallmarks of Nova Verta craftsmanship:

### Booth Construction

With vinyl-coated, galvanized, dual panel construction, two inches of insulation, tubular steel center, door hardware, sealing material, and nut and bolt assembly, Nova Verta paint booths are built to last.

### Lighting

With a minimum of 10 Class 1, Division 2 light fixtures and six color corrective tubes in each fixture there's a visible difference in a Raptor Series booth. Strategically placed throughout

the interior of the booth, Raptor 27' Series features eight horizontally positioned fixtures at the hip and four horizontally mounted on the side walls. Large booths offer even more light fixtures. Whatever the booth size, all fixtures are uniquely-designed to eliminate shadowing and interference with light output.

### Pre-wired

Factory pre-wiring expedites the installation of Nova Verta paint booth systems. Color-coded and labeled wiring in Seal Tite conduit, and easy-to-read installation manuals minimize the need for electrical contractors and reduce set-up time and expense. Finger-safe control panel wiring ensures operator safety.

### Controller

The Allen-Bradley Touchpad with a three-inch display makes the Raptor Series incredibly easy to use. Simply scroll to change parameters like temperature values and cure times. Self-diagnostic screens indicate corrective measures to keep the booth operating for peak production. With built-in tracking and screen readouts for booth hours, cycle hours, booth pressure and temperatures, the Raptor Series displays performance data to help optimize booth operation and minimize operating expenses. With the Touchpad, the Raptor Series puts total control at your fingertips.



Prewired Finger Safe Controls VFD's Rated NEMA 4X



Dual Inlet Hi-Capacity Low DB  
(Make-up Air Fan)



304 Stainless Steel Heat Exchanger

# RAPTOR SERIES

Some of our installation sites include:

## Product Details

### Standard-Option Cabin Dimensions<sup>†</sup>

#### Length

27' – standard  
24, 29, or 31' – optional

#### Width

13' - 4 5/8" – standard  
14' - 8" – optional

#### Height

10' - 9" – standard  
11' - 8 3/8" – optional  
Basement and semi-downdraft options add additional height

<sup>†</sup>These are nominal dimensions and should not be used for planning purposes. Please contact Nova Verta for detailed drawings and specifications tailored to your installation.

### Controller

Allen-Bradley, Touchpad  
Rated for Class 1, Division 2, hazardous locations

### Light Fixtures

10 fixtures or more  
(depending on cabin length)  
6 color correct tubes- each Class 1, Division 2,  
inside access

### Options

- Post filtration extractor
- 3 row tunnel pit
- 3 row easy pit
- Dry filter basement raises booth and equipment 12" or 16"
- Inside ramp
- Drive-through door option
- Side exit door (additional or for drive-through)
- Optional 480 volt motors, 277 volt lighting, and 120-volt controls and burner
- Electric roll-up door for automotive booth
- Electric side roll-up door
- Color Touch Screen controller
- Viewing window side wall
- Direct fired air make-up unit (note ANSI standards do not permit a Prep Cycle with a re-circulating direct fired system)

### Code Compliance

Most products are ETL Listed for their intended purpose to meet IFC, IBC, IEC, IMC, NFPA 33, 70, 86, 91, 101, UL508A, ANSI, and OSHA standards



Abbott Street - Salinas, CA



Artistic Auto Body - Tigard, OR



Ganassi Racing - Concord, NC



Elite Collision Center - Tempe, AZ



Exhibit Works - Livonia, MI



Auto Carrozzeria - Italy



The Auto Body Work Shop - Sacramento, CA



5000 - 3000 Prep Station - Sweden



Balise Auto Group - West Springfield, MA



3005 Single Prep Station

