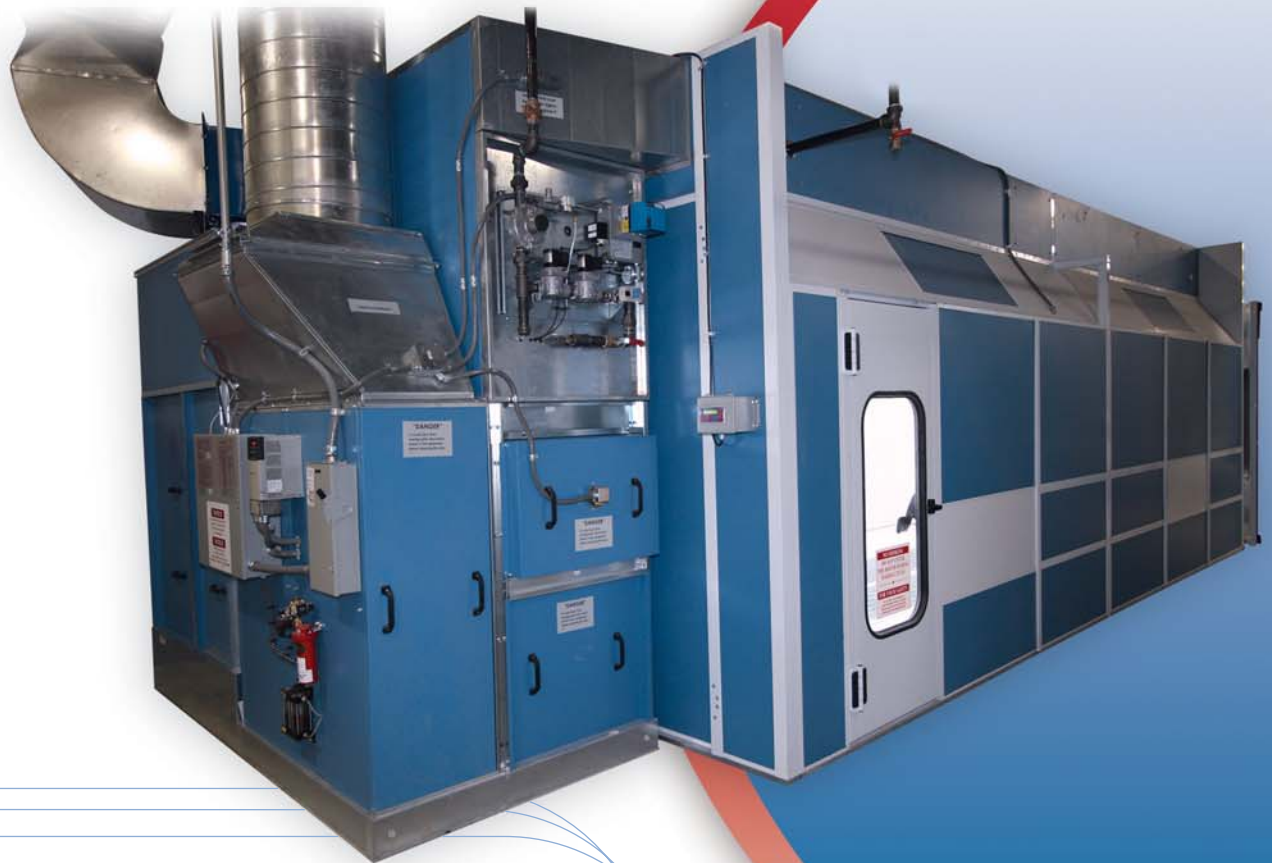


# RAPTOR

## DIRECT-FIRED SERIES

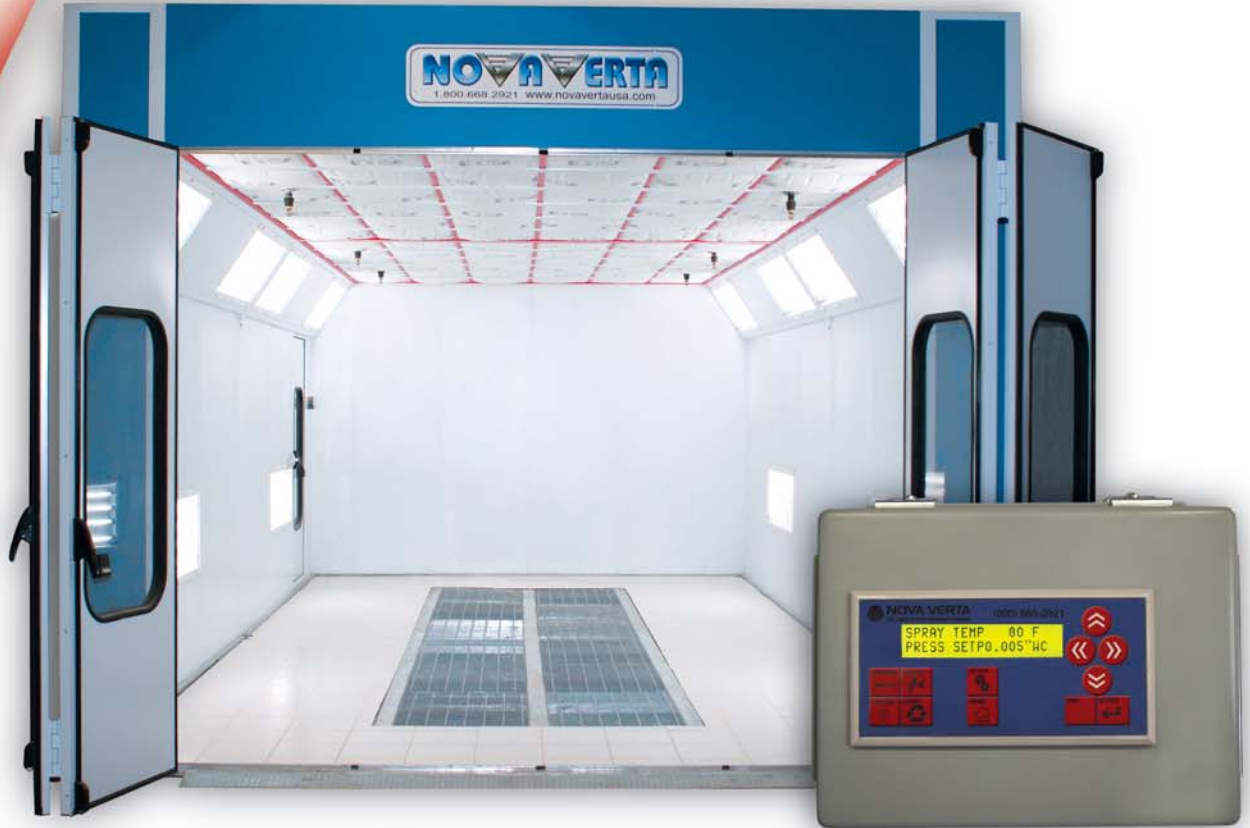


THE  
LEADER  
IN  
SPRAY  
BOOTH  
APPLICATIONS



**NOVA VERTA**





Siemens TD 200 Touchpad

## Raptor Direct-Fired Series

Step inside a Raptor Direct-Fired 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. Our superior airflow and quality design are second to none and make it the most cost effective paint booth system in its class.

With high-quality Siemens PLC controls and operator interface, direct-fired heating, and an Allen Bradley variable frequency drive on the exhaust fan, the Raptor Direct-Fired Series is engineered to ensure ideal painting conditions while conserving energy and offering superior airflow to expedite curing times.

## Complete Efficiency

The Raptor Direct-Fired Series, like others in its class, utilizes a 1.1 million BTU burner with 100° F temperature rise and 100% efficiency, and incorporates a 90% recirculation cycle in bake mode.

### Spray Cycle

At a single press of the touchpad controller, the Nova Verta booth is in the Spray Cycle and ready for paint application in a matter of minutes. At this stage, a steady stream of freshly heated air is passed across the direct-fired burner. The Raptor Direct-Fired Series provides conditioned air into the booth and automatically maintains a constant, ideal minimum booth pressure, without the use of a damper or operator intervention (automated pressure control is optional).

### Bake Cycle

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

# T - F I R E D S E R I E S



Quality Designed Door Hardware

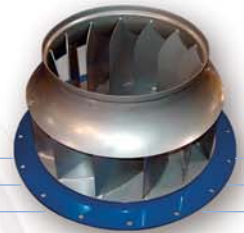


Raised Base with Inside Ramp

*When you need the cost-effectiveness of a direct-fired solution, the Raptor Direct-Fired 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 10 HP Turbine Exhaust Fan

## Total Quality

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

### Booth Construction

With pre-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 I, Division II light fixtures and four color corrective tubes in each fixture there's a visible difference in a Raptor Direct-Fired 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 and optional fixtures are also available. Whatever the booth size, all fixtures use a uniquely-designed ballast to eliminate shadowing and the interference of light output and are multi voltage capable.

### 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.

### Controller

The Siemens TD 200 touchpad with a three-inch, two-line display makes the Raptor Direct-Fired Series incredibly easy to use. Simply scroll to change parameters like temperature values and cure times. Self-diagnostics indicate the location of problem area(s) on the touchpad display to keep the booth operating at peak production. Controller screens also display booth hours, booth pressure, and temperatures. With the touchpad, the Raptor Direct-Fired Series puts total control at your fingertips.



Prewired Control System Utilizing VFD For Pressure Control



Dual Inlet Hi-Capacity Low DB (Make-up Air Fan 10 HP)



Midco Direct-Fired Burner Assembly 1.1 Million BTU



# RAPTOR DIRECT-FIRED SERIES

Some of our installation sites include:

## Product Details

### Standard-Option Cabin Dimensions

#### Length

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

#### Width

13'-4 5/8" or 14'-8 1/2"

#### Height

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

†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

Siemens TD 200 touchpad  
Rated for Class 1, Division 2, hazardous locations

### Light Fixtures

10 fixtures or more  
(depending on cabin length)  
4 tubes

### Options

- Automated pressure control
- Remote operator station
- Post filtration extractor
- Additional light fixtures or tubes
- 3 row tunnel pit
- 3 row easy pit
- Dry filter basement raises booth and equipment 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
- Viewing window side wall

### Code Compliance

Most products are ETL Listed for their intended purpose to meet IFC, IBC, IEC, IMC, NFPA 33, 79, 86, 91, 101, UL508A, ANSI, and OSHA standards



Lewis and Clark State College



Italian Boat Builders



Ganassi Racing - Concord, NC



Peterson Motors



Honda Training Center



Toby's Body and Fender



The Auto Body Work Shop - Sacramento, CA



Swift Motorcycle



Mercedes Dealer - Russia



Exhibit Works - North Carolina



**NOVA VERTA**

[novavertausa.com](http://novavertausa.com)

**800-668-2921**

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