



# CENTURY SPRAY BOOTH

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## Finally:

An insulated spray booth with European quality combined with the flexibility and latest technology from North America.

## Century is a European style spray booth featuring:

- Rammstein Air Make-Up Unit (AMU) specifically designed for the finishing industry, with lots of energy saving features and benefits (see next page)
- LDPI inside access lights, rated Class 1, Division 2 for hazardous areas
- Colour-corrected light tubes in either fluorescent or LED
- 36" Tube axial exhaust fan c/w non-sparking aluminum blade, and NEMA, TEFC motor
- Quality door hardware including heavy duty, adjustable hinges
- Variable Frequency Drives (VFD) on both intake and exhaust fans
- 13" of additional interior height over standard automotive booths
- Optional raised basement at no additional cost instead of in-floor pit
- 2,000 #/Wheel German made floor grating

## Technology:

A state-of-the-art AMU delivers maximum performance with premium energy efficiency and includes an auto-prep (econo) mode, flash mode and auto balancing. A 1,500 MBTU burner makes sure you have heat when you need it and gets you up to temperature quickly.

## Flexibility:

A Century Spray Booth is available with both vertical and horizontal configurations, so that the mechanicals can go beside, behind, AND above the booth (on an optional stand) or even on the roof of the building. One of the problems with most European style booths (even those made in Asia) is that the mechanicals are only available in a vertical configuration.

## Standard Parts:

All of the mechanicals, controls, lights and interlocks are made in America, so you'll never have a problem with parts.

## Air Flow:

A bigger booth gets more airflow so you're not compromising on quality with additional length.

Inside Dimension:			Air Flow CFM@½"SP	Air Speed FPM@½"SP	# Lights in the Hips *	Horsepower	
Length	Width	Height				Intake	Exhaust
23' - 0"	13' - 1"	10' - 1"	12,000	40	10	10	3
26' - 3"	13' - 1"	10' - 1"	14,000	41	12	10	3
29' - 6"	13' - 1"	10' - 1"	16,000	41	12	15	5

\* optional wall lights are available



# RAMMSTEIN AIR MAKE-UP TECHNOLOGY

## Rammstein Welcomes You to the State-of-the-Art in Air Make-Up (AMU) Technology.

Traditional AMUs were either adopted from the HVAC (heating, ventilation & air-conditioning) industry decades ago or were brought over from Europe. Rammstein was designed from scratch specifically for the North American finishing industry with a focus on energy savings.

### 1. Direct vs Indirect-Fired:

Most internationally-made booths use indirect-fired AMUs, that utilize a heat exchanger with 15% to 20% of the heat escaping up its chimney. With direct-fired, all of the heat stays in the air stream. With other direct-fired units, the air speed across the burner needs to be constant for a clean and efficient burn. Rammstein uses a separate source for combustion air so that the airflow can be safely varied to suit the desired mode, whether that be spray, cure or prep. Additional time and energy savings are realized as direct-fired units heat up much faster than indirect.



### 3. Automatic Prep Mode:

When the painter stop painting, the Rammstein system detects the lack of airflow to the spray gun and, after a short time delay, reduces the booth's airflow by 50% or more, for substantial energy savings. When the painter starts spraying again, the system instantly returns to spray mode, or can be put into cure mode.

### 2. Recirculation vs 100 %

#### Fresh Air:

In the cure cycle you're allowed to recirculate at least 80% of the exhaust air for substantial energy savings. Some other AMUs will be "dual air / dual temp" meaning that they'll choke the airflow in the cure mode by 50% to double the temperature rise, while the blower motor runs at full speed and all air and heat is exhausted. Rammstein recirculates the air in the cure mode and reduces the blower motor speed to vary the air flow.

### 4. California Pulse:

For even more energy savings, Rammstein can be combined with the unique drying power of California Pulse drying system for water-borne paints.

Pulsing air discharged from corner mounted nozzles creates maximum turbulence for the fastest drying, resulting in even more energy and time savings.

## Some of the Rammstein Features and Benefits:

- Variable Frequency Drives (VFD) on BOTH intake and exhaust fans for variable air flow, smoother transitions between modes and lower power consumption.
- Direct-fired burner ensures that almost all of the heat produced goes into the booth
- Recirculation in the Cure Cycle heats up faster, with 100% air flow and fuel savings
- Separate Combustion Air Source for the burner allows for variable air flow
- Automatic Prep Mode, automatically puts the booth into an energy savings mode after the painter stops painting
- Flash mode is similar to the cure mode with adjustable temperature and time settings
- Automatic pressure balancing means your booth is always balanced even as the filters load up.
- The unit can be mounted vertically beside or behind the booth, or horizontally above the booth or on the building roof for maximum flexibility and minimum footprint.
- A very high burner turndown ratio of 50:1 allows you to heat your booth in warmer weather without overshooting your target temperature.





Two Spray Booths with Mix Room in between

## Century Spray Booth

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

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