



AEI Paint Booths

Paint Booths and Finishing Process Equipment

Phone: 800-348-1097 – www.aepaintbooths.com

TTV-20-12,600 AMU - Air Make-Up Unit

Thank you for the opportunity to work with you on your paint booth project. Below you will find specifications and descriptions of our standard equipment. Our goal is to provide you with the best combination of equipment for your specific application. In addition to the items listed below we can customize any portion of your paint booth. As part of our service to you we will coordinate our information with your Architects, Engineers, and General Contractors.

TTV-20-12,600 AMU - Air Make-Up Unit Standard Equipment and Features:

- 12,600 CFM Direct Fired Gas Heated Air Make-up Unit (TTV-20-12,000) to replace the exhaust air from the paint spray booth. Air Make-up Unit features 100% fuel efficiency.
- Vertical Unit Arrangement with Side Discharge
- 100% Replacement Air
- 12,600 SCFM / 0.38 Duct SP - Electric Current: 208-230-460/60/3 3-wire
- ETL Label
- High Efficiency Motor
- Burner/Blower Service Switches
- Stainless Steel Burner /Aluminum Casting
- Outdoor Safety Switch (Disconnect) and Motor Starters
- Unit Location: Outdoor Installation
- 7.5 HP Motor - ODP - High Efficiency EPACT
- 1.32 Million BTU
- Gas Pressure: 1# to 5# (Natural Gas or Propane)
- Gas Manifold: ANSI w/2 Solenoid Gas Valves
- Temperature Control System: 401M - Maxitrol
- "M Series" Programmable Temperature Controller
- G-90 Galvanized Casing - Unpainted Casing
- Flame Failure Light & High Temp Limit
- Burner On/Off Intake Air Duct-stat
- **125° F Temperature Rise**
- **Fused Disconnect**
- **Automatic Discharge Damper with Actuator**
- **3 H.P. Variable Frequency Drive for Exhaust**
- **V-Bank Pre Filter System with 2" Cleanable Filters**
- **Deluxe Remote Control Panel**
- **Spray and Cure Modes**

Deluxe Digital Control Panels:

- NEMA 1 Enclosure
- Programmable Spray, Flash, and Cure Modes
- Emergency Stop Push-Pull Switch
- Digital Bake Timer
- Delay Start Timer
- Purge Timer
- Cool Down Timer
- Indicator Lights for Spray, Flash, and Cure
- Purge Mode Light
- Cool Down Mode Light
- Photohelic Pressure Gauge

Option: Variable Airflow Control Systems – Saves Energy – Improves Efficiency:

- The air flow system has been designed for ideal air flow control providing you the ability to adjust to different types of paint such as **water based and solvent based**. The system also allows you to adjust to different outdoor air conditions such as humidity. The higher the humidity the greater the air flow required to efficiently flash or cure your paints.
- We offer the ability to flash and cure at 100% airflow and high temperatures. We can provide 100% airflow and a 125 Degree temperature rise over the outside air temperature. If it is 20 Degrees outside our system can provide 100% airflow at 145 Degrees.
- Most systems in the industry can only provide these temperature rises at 50% air flow. Proper total control over air flow and temperature are necessary to deal with the different chemistries of different paints and to deal with changes in ambient air conditions in your area.
- This system allows you to control how much air is used by the air make-up unit allowing you to control operational costs as well. System includes Variable Frequency Drives for both intake and exhaust volume control. Includes Programmable Digital Control Panel. Just set the pressure desired in the booth and the air flow desired from the Air Makeup Unit and the booth through the readings on the photohelic and the preset pressure settings will automatically balance the fans to maintain the desired air flow and pressure. Cut energy costs by up to 50% in some cases.

Option: Automatic Booth Pressure Balancing Control System:

- No more need for constantly adjusting the exhaust fan as the exhaust filters load up with paint. No more doors blowing open. The Automatic Balancing System speeds up the exhaust fan to keep the pressure balanced in the booth and the airflow at a proper speed. Set the pressure desired in the booth and the system through the readings on the photohelic booth cabin pressure sensor will automatically adjust the speed of the exhaust fan to maintain the desired preset pressure.

Pricing Summary

Qty.	Description	Cost
1	TTV-20-12,600 - Vertical Air Makeup Unit with Spray and Cure Modes	
	Options	
1	Booth Automatic Pressure Balancing System	
1	Variable Airflow Control System	

The following may be required for your equipment but are **not** included by AEI in this proposal: Installation, electrical controls wiring, piping, ductwork, taxes or permits.

Code Compliance:

- All AEI equipment is designed to meet or exceed the requirements and recommendations of the National Fire Protection Association (NFPA), Standard Number 33 dated 2000, as well as Occupational Health and Safety Administration (OSHA) CFR 29.1910.

Warranty:

- AEI warrants to buyer that the equipment is to be free from defects of materials or workmanship under normal use and maintenance for a period of one year.
- All components supplied but not produced by AEI shall carry the warranty of the manufacturer.

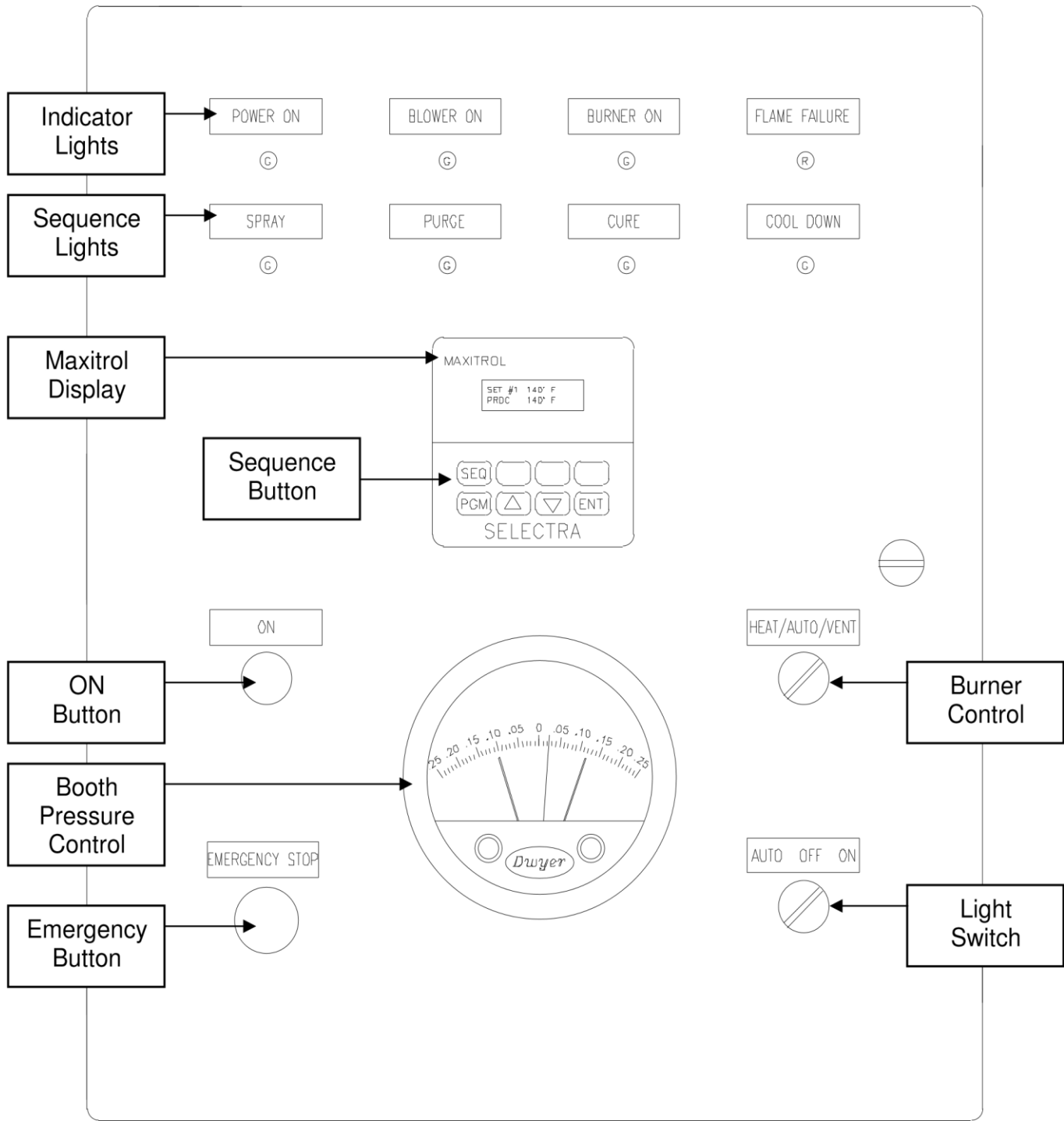
I thank you for the opportunity to submit a bid for your project and for your time and consideration. If I can be of any further assistance, please feel free to call me at any time.

Thank you,

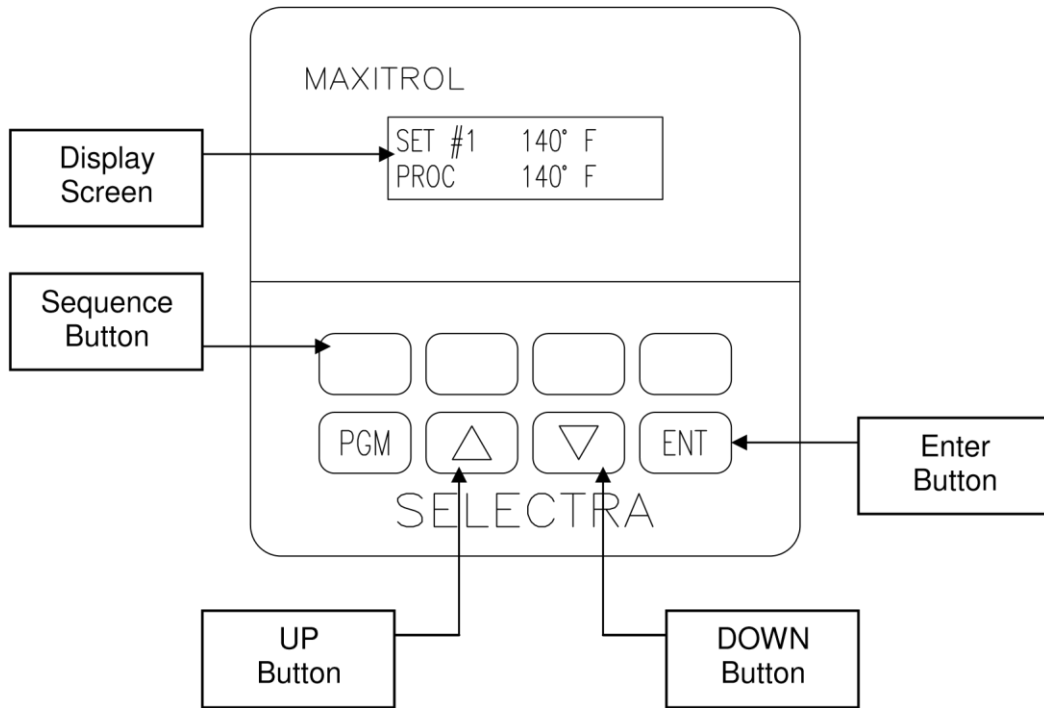
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More Information Below:

Control Panel Layout



Display Screen Layout



Sample Programming (Field Adjustable)

Temperature Set Points		
Sequence	Description	Temp
#1	Start Delay	70
#2	Spray	70
#3	Purge Delay	70
#4	Purge	70
#5	Bake	140
#6	Cool Down	70
#7	Shut Down	70

Process Times		
Sequence	Description	Time
#1	Start Delay	3 Sec
#2	Spray	Manual
#3	Purge Delay	1 Sec
#4	Purge	1 Min
#5	Bake	1 Hour
#6	Cool Down	5 Min
#7	Shut Down	3 Sec