

Control Panels

Col-Met provides a number of controls for your spray booth such as motor starters, multi-fan and VFD control panels. Each of our standard control panels are delivered pre-wired with a single connection point to make installation fast and easy. Intuitive control displays allow for easy navigation and simplicity while working.

Touch Screen and PLC Based Controls

Col-Met now offers touch screen controls for our batch ovens, paint booths and powder collectors, allowing for simple operation of your equipment.

Features & Options Include:

- >> **(3) Screen Sizes to Choose From** Maple Systems color touch screen available in 4.3 inch, 7 inch and 15 inch formats
- >> **Expandable Input and Outputs** When systems change, processes need to be reconfigured. With our expandable input and output capabilities, change is not an issue. If a new limit switch is required, simply add an input block. If a fifth motor needs to be controlled, easily add an output block.
- >> **On Screen Pressure Monitoring** By utilizing a pressure transducer, we can display the pressure of a filter or booth right on the screen. This data can be used to set limits on filter changes and exported to see how often filters are being changed.
- >> **Precise System Information** When a VFD is used in conjunction with the smart touch control panel, detailed information such as frequency and amperage can be monitored on the touch screen.
- >> **Built-In Hour Meters** Each critical device such as a motor contactor, burner proven input, or air solenoid output is programmed to monitor and record the amount of time it is in use. This means the maintenance department can see exactly how many hours the fan has run since the last time it was lubricated.
- >> **Ethernet Communications** Connect the smart touch control panel to your Local Area Network to open up the remote monitoring and control capabilities. The touch screen includes a built in VNC server which will allow a user to access the system from a web browser or VNC app on a smart phone.

VFD Control Panels

VFD (Variable Frequency Drive) control panels allow the motor to operate anywhere between 18Hz and 60Hz. This means the fan can spin at virtually any speed, which allows for better control of the airflow in your booth. VFD control panels offer energy savings because they slowly ramp the fan up to speed eliminating costly inrush current and saving wear and tear on the fan belts.

Features & Options Include:

- >> **Maximum Airflow Control** With new filters in the spray booth, the fan may move more air than what the applicator prefers. By using a VFD control panel, the operator can slow the fan when needed and speed it up as filters become clogged. It also provides the ability to run the fan at a low speed during surface preparation.
- >> **Easy Booth Balance** When a booth has a supply fan and exhaust fan, they both must move the exact amount of air for the booth to properly balance. Unfortunately in the real world, there are a number of variables such as ductwork configuration, filter loading, and building pressure that can make this difficult. With a VFD control panel, balance is simple because the operator has full control over the speed of the exhaust fan.
- >> **High Quality Components** The VFD control panel has a main disconnect switch, fuse protection for the VFD, protection for up to 15 lights, control relays and field wiring terminal strip. The operator interface includes start/stop buttons for the fans and lights and a potentiometer to control the speed of the fan. The included magnehelic gauge can be used to adjust the balance of the booth.



High Resolution Color Touch Screen



User friendly menu layout with advanced system status indicators



HMI Ignition Helper



Host Client System Remote Panel



Various sizes available



VFD Control Panel



VFD Control Panel Outside Buttons



UL and ETL-Listed Control Panels

A control panel is an all-inclusive means of controlling your booth. It comes pre-wired with a main disconnect switch, class 10 motor protector, light contactor and fuse protection. The independent toggle switches allow for separate control of your fan and lights. Control panels are UL 508a-listed and can also be ETL-listed.

Features & Options Include:

- >> **Wide Range of Applications** Control panels can be set up for just about any voltage, phase and HP configuration needed for your application. The standard fuse protection allows for up to 15 light fixtures and additional circuits can be added to control up to 45 light fixtures. Control panels can be set up to operate paint mix rooms where continuous mechanical ventilation is required for NFPA.
- >> **Field Wiring Terminal Block** Any optional features such as door limit switches, light lens limit switches, filter alarms and air solenoids will all wire back to the included terminal block, making field wiring extremely simple. Fire suppression interlock is included as a safety feature so the fan turns off in case of a fire alarm.
- >> **High Quality Components** Get the maximum motor protection with the KT7 series motor controller. Every KT7 device is individually calibrated for the lowest and highest current it can handle. When coupled with the automatic ambient temperature compensation over a range of -25C to +60C, very accurate thermal overload protection is obtained. Excellent short circuit protection of up to 65kA at 480V and up to 47kA at 600V is also achieved.



Standard Control Panel



Standard Control Panel Interior

Magnetic Motor Starters

Motor starters are our most basic and cost-effective option to easily operate the fan on your booth. The motor starter is pre-wired in a NEMA 1 enclosure and is equipped with an adjustable solid-state overload relay and a 4-pole 23-amp contactor. For a UL-listed option, see our line of standard control panels with additional features.

Features & Options Include:

- >> **Wide Range of Applications** Motor starters can be set up for just about any voltage, phase and HP configuration needed for your application.
- >> **Optional Light Contactor** With an available lighting contactor, the motor starter can be a complete economical control solution for your booth. Independent toggle switches allow the lights and fan to be controlled separately.
- >> **Paint Mix Room Compatible** A paint mix room is required to have continuous mechanical ventilation. Our motor starters can be configured to allow the fan to run at all times while still offering a switch for light fixtures.

For information on Oven and AMU controls, please see Oven and AMU product sheets.



Basic Motor Starter



Motor Starter with Light Circuit

