

# CONTROL PANELS



RTT offers a variety of control panel options for your equipment. Motor starters are an economical way to safely control and protect a motor, while a standard UL listed control panel offers additional features such as main disconnect and booth lights control. VFD control panels allow for the ability to easily adjust fan speed which simplifies booth balancing. RTT also offers optional touch screen controls for booths. Control panels are delivered pre-wired with a single connection point to make installation fast and easy.

## SmartTouch and PLC Based Control

SmartTouch is a standard feature for all ovens and is optional for spray booths.

### Features & Options

- Color touch screen available in 3 sizes; 4.3 inch, 7 inch and 15 inch formats.
- SmartTouch Control Panels offer expandable inputs and outputs allowing for reconfigurations and new capabilities such as operations change.
- The SmartTouch panel can display the static pressure reading across the filters right on the screen. This data can then be used to set limits on filter changes and exported for filter analysis.
- When a VFD is used in conjunction with the SmartTouch control panel, detailed information such as frequency and amperage can be monitored.
- Easily schedule preventative maintenance by utilizing the built in hour meters that monitor each critical device on the equipment.
- When used with RTT ovens, and SmartTouch Control Panel is connected to a local area network, you can utilize RTT's SmartConnect app to remotely monitor oven status via any Android, PC or Apple device.



SmartTouch Control Panel

## VFD Control Panel

VFD (Variable Frequency Drive) control panels allow the motor to operate anywhere between 18Hz and 60Hz. Having the ability to adjust fan speed allows for better control of the airflow in the booth. VFD control panels also offer energy savings because the fan is slowly ramped up to speed eliminating costly inrush current and savings on wear & tear items like belts.

### Features & Options

- VFD control panel provides maximum airflow control. With new filters in the 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 the filters become clogged. It also provides the ability to run the fan at a low speed during surface preparation.
- 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. Using a VFD control panel booth balance is simple because the operator has full control over the speed of the exhaust fan.
- The RTT VFD control panel is designed with high quality components. A 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.



VFD Control Panel



## 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

- Control panels can be set up for almost any voltage, phase and HP configuration. The standard fuse protection allows for up to 15 amps of light fixtures and additional circuits can be added to control up to 45 amps of light fixtures. Control panels can be set up to operate paint mix rooms where continuous mechanical ventilation is required by NFPA 33.
- The included field wiring terminal block simplifies the wiring to optional devices such as door limit switches, filter alarms and compressed air solenoid. Fire suppression interlock is included as a safety feature so the fan turns off in case of a fire alarm.
- The included KT7 series motor controller offers maximum motor protection. 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

## 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. It 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

- Motor starters can be set up for just about any voltage, phase and HP configuration needed for your application.
- Optional light contractor available. 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.



Basic Motor Starter

