

# CONTROL BOX

## COMMERCIAL UVC ACCESSORIES



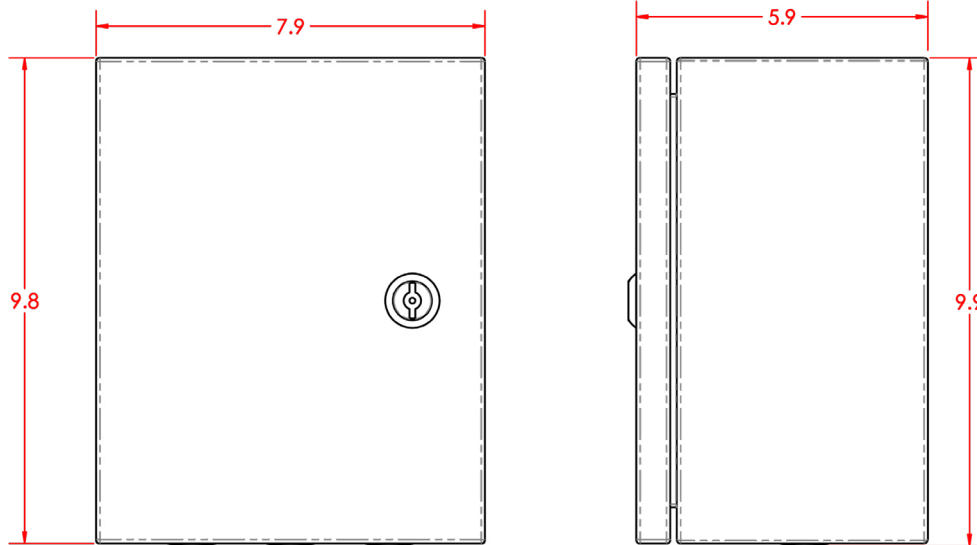
TUVC-CBX-5E

### TUVC-CBX-5E

This basic control box is ideal for ice machine bins and smaller units. It is designed to turn the UV light system on and off through a door interlock (sold separately). Automatic reset up to 10 min. when interlock is reset after timing out.

### FEATURES

- 120/240/277V to 24VAC, 50VA Transformer
- Delay-on Timer Relay, adjustable 0.03-10 minute
- 24VAC Double-pole Contacts, 30A rated
- Color-coded Terminals for power-in, power to lamps, door interlock
- 7A/120V maximum power rating



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TUVC-CBX-5E-SPECS 062921

# CONTROL BOX

## COMMERCIAL UVC ACCESSORIES



TUVC-CBX-5S

### TUVC-CBX-5S

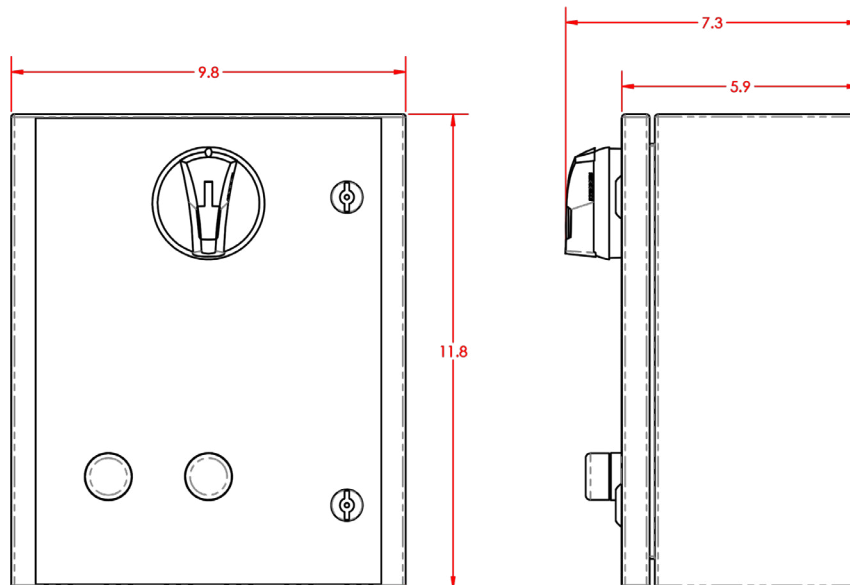
A standard control box that is ideal for commercial HVAC coil and duct-mounted systems with 2-3 power supplies. It is designed to turn the UV light system on and off through a door interlock (sold separately). Maintains lockout status until manual disconnect is reset.

#### FEATURES

- 120/240/277V to 24VAC, 50VA Fused Transformer
- 600V/16A, On/Off/Reset Rotary Switch
- 24V Double-pole Contacts, 30 A rated
- 24VAC lock-out Relay
- Power-on Status Light (green)
- Fault Status Light (red) for door interlock
- 7A/120V maximum power rating

#### OPTIONAL FEATURES:

- Current Sensor (displays fault light on lamp failure) with open dry 24VAC contact for remote monitoring
- Surge Suppressor



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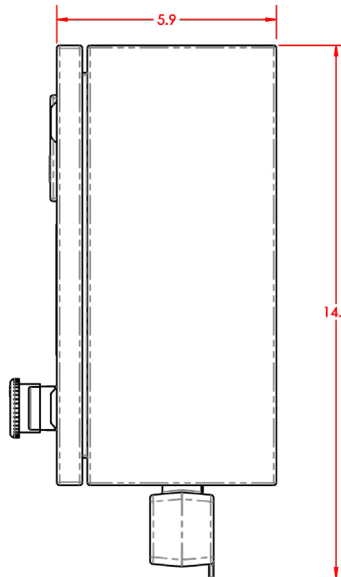
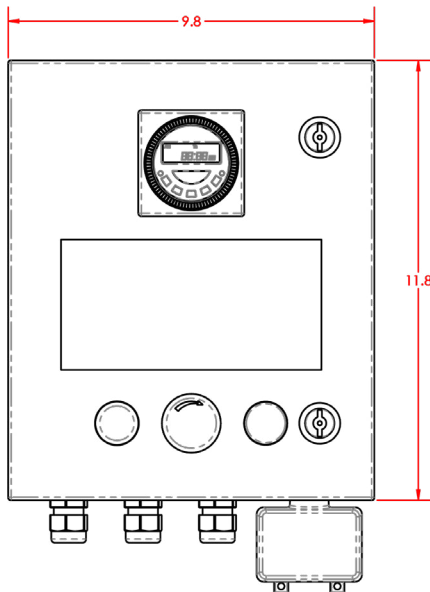
TUVC-CBX-5-ESDS

### TUVC-CBX-5-ESDS

This control box is designed specifically for the Fresh-Aire UV Environmental Surface Disinfection System (ESDS). The ceiling-mounted ESDS is used to disinfect surfaces in unoccupied spaces such as operating rooms. This control box includes a programmable timer so the UV lamps will only be turned on when the space is unoccupied. It includes emergency stop and door interlock operation, 24VAC output signal for remote notification, and lamp failure indication.

### FEATURES

- 120/240/277V to 24VAC, 50VA Fused Transformer
- Seven Day Programmable Timer
- Current Sensor Relay for lamp monitoring with dry contact output
- 24V Double-pole Contactor, 30A rated
- 24VAC Lock-out Relay
- Power-on Status Light (green)
- Fault Status Light (yellow) for door interlock and standard lock-out relay
- 7A/120V maximum power rating



### OPTIONAL FEATURES

- Adjustable Time-Out relay to automatically reset system
- Surge Suppressor
- Motion Sensor



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TUVC-CBX-10E-ESDS

### TUVC-CBX-10E

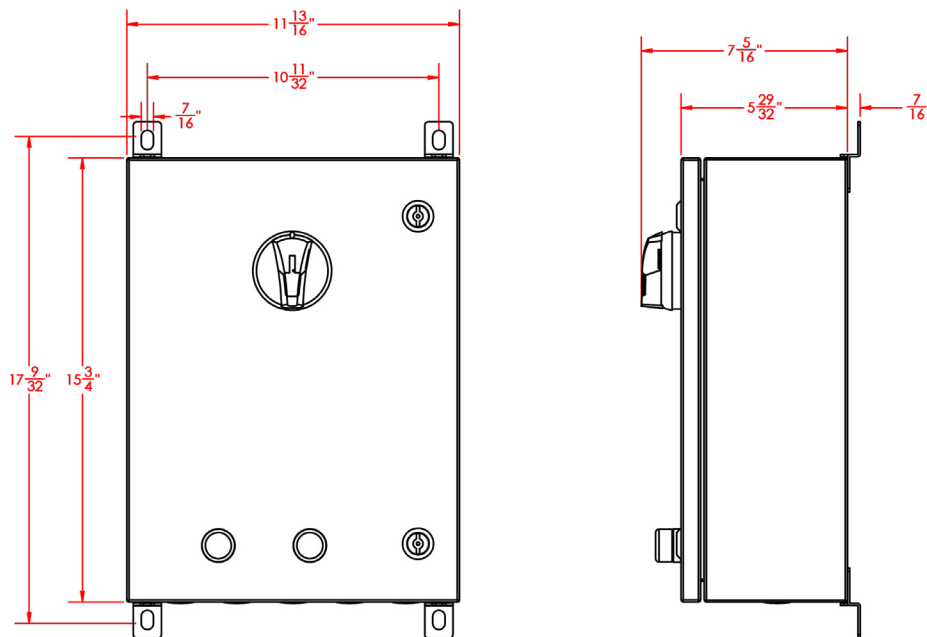
This standard control box is Ideal for coil and duct-mounted systems with 4-5 power supplies. Designed to turn the UV Light System on and off with a manual disconnect and door interlock. Maintains lock-out status until manual disconnect is reset.

#### FEATURES

- 120/240/277V to 24VAC, 50VA Fused Transformer
- 600V/32A, On/Off/Reset Rotary Switch
- 24VAC Double-pole Contactor, 30A rated
- 24VAC Lock-out Relay
- Maximum power rating 10A/120V
- Green Status Light for power on
- Red Status Fault Light for door interlock
- Current Sensor indicates lamp failure or open dry 24VAC contact (red status light)

#### OPTIONAL FEATURES

- Surge Suppressor



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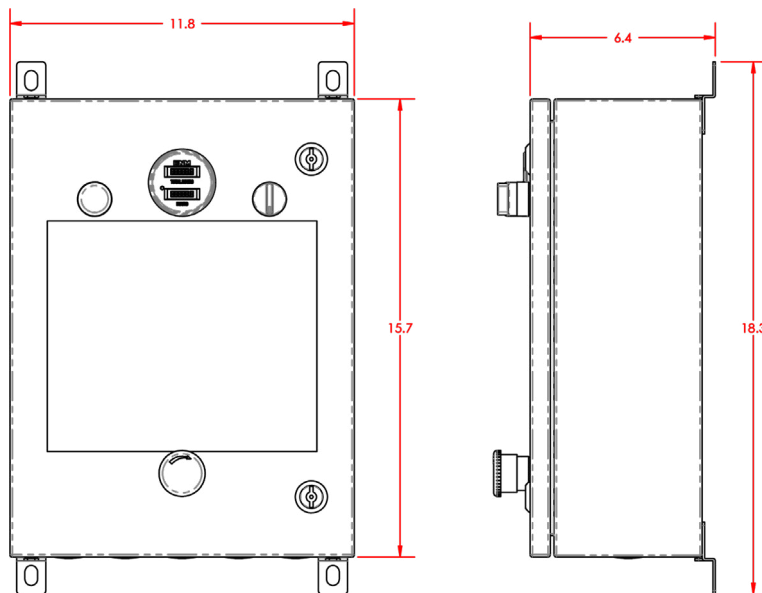
TUVC-CBX-10S

### TUVC-CBX-10S

This control box is designed to turn on and off UV light systems. This system allows UV control and monitoring remotely or through built-in manual control. Ideal for coil and duct-mounted systems with 3-5 power supplies.

#### FEATURES

- On/Off BMS Selector Switch
- System fault output
- Solid-state Relay
- Safety Interlock Relay
- Lamp Life Timer
- Emergency Stop
- Status Lights
- Programmable Logic Control for relay function and system supervision
- 10A/120V maximum power rating



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TUVC-CBX-20E

### TUVC-CBX-20E

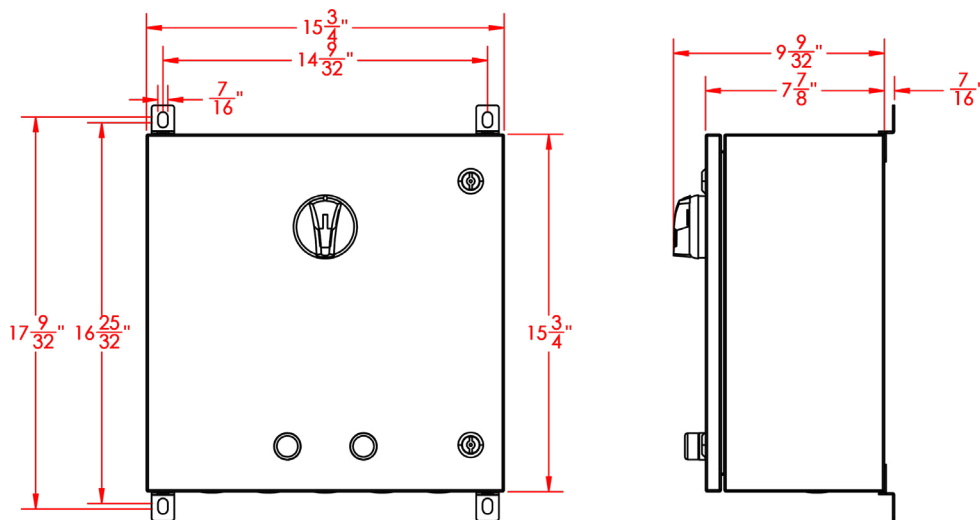
This control box is ideal for coil and duct-mounted systems with 6-10 power supplies. Designed to turn the UV Light System on and off with a manual disconnect and door interlock. Maintains lock-out status until manual disconnect is reset.

#### FEATURES

- 120/240/277V to 24VAC, 50VA fused transformer
- 600V/40A, On/Off/Reset rotary switch
- 24VAC Double-pole Contactor, 30A rated
- 18-30VAC Lock-out Relay
- Green Status Light for power on
- Red Status Fault Light for door interlock
- 20A/120V maximum power rating
- Current Sensor indicates lamp failure or open dry 24VAC contact (red status light)

#### OPTIONAL FEATURES

- Surge Suppressor



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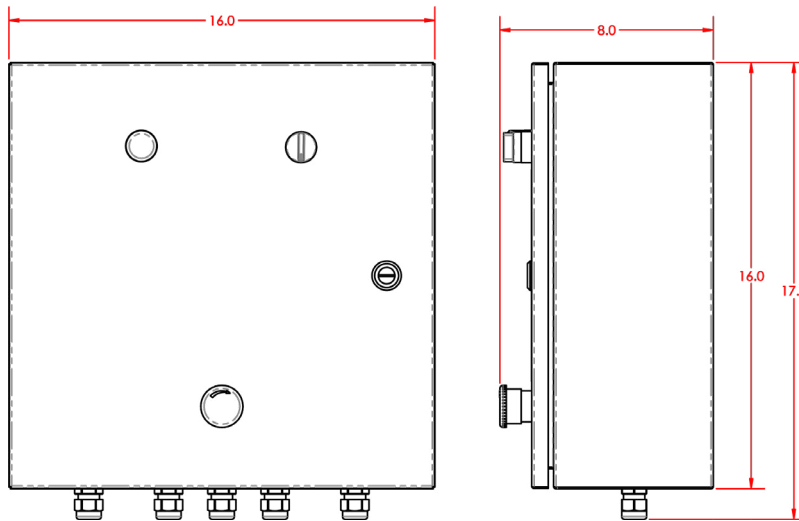
TUVC-CBX-20S

### TUVC-CBX-20S

This control box is Ideal for coil and duct-mounted systems with 6-8 power supplies. Designed to turn the UV Light System on and off with a manual disconnect and door interlock.

#### Features:

- On/Off BMS Selector Switch
- Staggered Lamp Startup (systems over 10Amps.)
- System Fault Output
- Safety Interlock Relay
- Lamp-Life Timer
- Status Lights & Emergency Stop
- Programmable Logic Control with LCD display
- 20A/120V maximum power rating



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## DATA & ACCESSORIES



### Control Box Sizing Chart

Commercial Power Supply Electrical Data for Fresh-Aire UV 18", 24", 32", 46", 60" High-output Lamps

LAMPS	SYSTEM TYPE	POWER SUPPLY	LAMP WATTS	AMPS @ 120V	AMPS @ 277V
TUVCL-218-HO	SINGLE	TUVCPS-HS	48	0.31	0.14
TUVCL-218-HO	DUAL	TUVCPS-H32D	48 (x2)	0.70	0.30
TUVCL-224-HO	SINGLE	TUVCPS-HS	57	0.45	0.21
TUVCL-224-HO	DUAL	TUVCPS-H32D	57 (x2)	0.95	0.41
TUVCL-232-HO	SINGLE	TUVCPS-HS	80	0.67	0.29
TUVCL-232-HO	DUAL	TUVCPS-H32D	80 (x2)	1.33	0.58
TUVCL-246-HO	SINGLE	TUVCPS-HS	100	0.83	0.36
TUVCL-246-HO	DUAL	TUVCPS-H46-60D	100 (x2)	1.67	0.72
TUVCL-260-HO	SINGLE	TUVCPS-HS	130	1.32	0.57
TUVCL-260-HO	DUAL	TUVCPS-H46-60D	130 (x2)	2.6	1.4

### Accessories Available:

ACCESSORY	PART NUMBER
Mechanical Door Interlock (120-277 VAC)	TUVC-INTLCK
Magnetic Door Interlock (24V requires Control Box)	TUVC-INTLCK-MG
Schedule Timer (Weekly programmable schedule)	TUVC-CBX-SCH
Motion Sensor	TUVC-CBX-MS
Surge Suppressor Kit	TUVC-CBX-SS-120
UVC Radiometer	TUVC-RAD-100DL



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