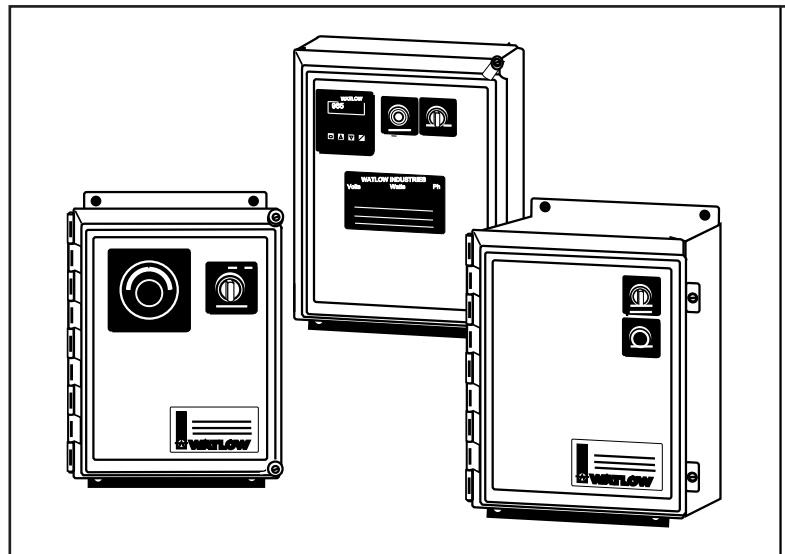


CONTROL BOX

Save Time and Money with Single Source Control



Don't spend valuable time engineering, designing, and sourcing components to build a control box. Turn to Watlow for single source control of your process.

Three different control box models, capable of handling up to 50 amps at 480VAC, allow you to select the control scheme which best suits your heating or cooling needs.

Model #1—Process controller **and** a high limit control

Model #2—Process controller **or** a high limit control

Model #3—ON/OFF solid state process **or** high limit control in place of a bulb and capillary style thermostat.

Each model is pre-wired at the factory with appropriate optional power switching devices, optional transformer, terminal blocks and accessories. **The Watlow control box, a versatile, compact, and lightweight package, can be delivered to you in only 5 to 10 working days.**

If you presently use bulb and capillary style thermostats, Watlow's new control boxes will provide you with:

- Greater accuracy of the process
- Longer switching life
- High power handling capacity, up to 50 amps
- Ability to isolate switch from heat source

From the reliability of the Watlow Series 965, a microprocessor based control, to the simplicity of the Watlow Series 92 or Series 101 ON/OFF control, we offer a control to meet your process accuracy needs.

Available control options include the PID auto-tuning Series 965 with ramp to set point and percent power limit, to simple ON/OFF control in the Series 92 and Series 101, and high limit protection of the Series 92 and Series 140. To switch your power loads, choose from either a mechanical contactor or a high performance Watlow MDR, mercury displacement relay.

With the availability of the control box, Watlow now offers a complete heating package with the reliability of Watlow components—heaters, controls and sensors—that are pre-assembled and ready for installation in your heating and cooling system.

Features

- Stock availability
- Standard NEMA 4X enclosure for Models #1 and #2
- Compact, lightweight package
- Up to 50 amps capacity
- UL®/CSA component recognition

Benefits

- Quick delivery
- Moisture and corrosion resistant
- Easy to install, minimum space required
- Meets the control needs of most small to medium size heating systems
- Assured safety



Watlow Process Systems

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CONTROL BOX

Control Box Model #1 includes both a process controller and a high limit controller.

Ordering Information

C B

Base Model

CBP92J4X92JKD20

Base includes:

- Series 92 ON/OFF controller, Type J T/C input (32 to 600°F)
- NEMA 4X fiberglass box (12" x 10" x 6")
- Series 92 high limit, Type J T/C input, (32 to 1382°F)
- Mercury displacement relay, 2 pole, 25 amp
- Mechanical relay for high limit circuit isolation
- Illuminated ON/OFF control switch
- Control fusing

Options

Process Controller

P92J = Series 92, ON/OFF controller, Type J T/C input (32 to 600°F)

P92K = Series 92, ON/OFF controller, Type K T/C input (32 to 2282°F)

965J = *Series 965 PID controller, Type J T/C input

965K = *Series 965 PID controller, Type K T/C input

Enclosure

4X = NEMA 4X fiberglass box (12" x 10" x 6")

12 = NEMA 12 metal box (12" x 12" x 6")

High Limit Controller

92J = Series 92, high limit, Type J T/C input (32 to 1382°F)

92K = Series 92, high limit, Type K T/C input (32 to 2282°F)

Power Switching Device

(Includes applicably sized high limit mechanical contactor)

3M3 = Mechanical contactor, 3 pole, 35 amp

3M5 = Mechanical contactor, 3 pole, 50 amp

KD3 = Mercury displacement relay, 3 pole, 25 amp

KD2 = Mercury displacement relay, 2 pole, 25 amp

LD3 = Mercury displacement relay, 3 pole, 35 amp

LD2 = Mercury displacement relay, 2 pole, 35 amp

MD3 = Mercury displacement relay, 3 pole, 50 amp

MD2 = Mercury displacement relay, 2 pole, 50 amp

X=Transformer

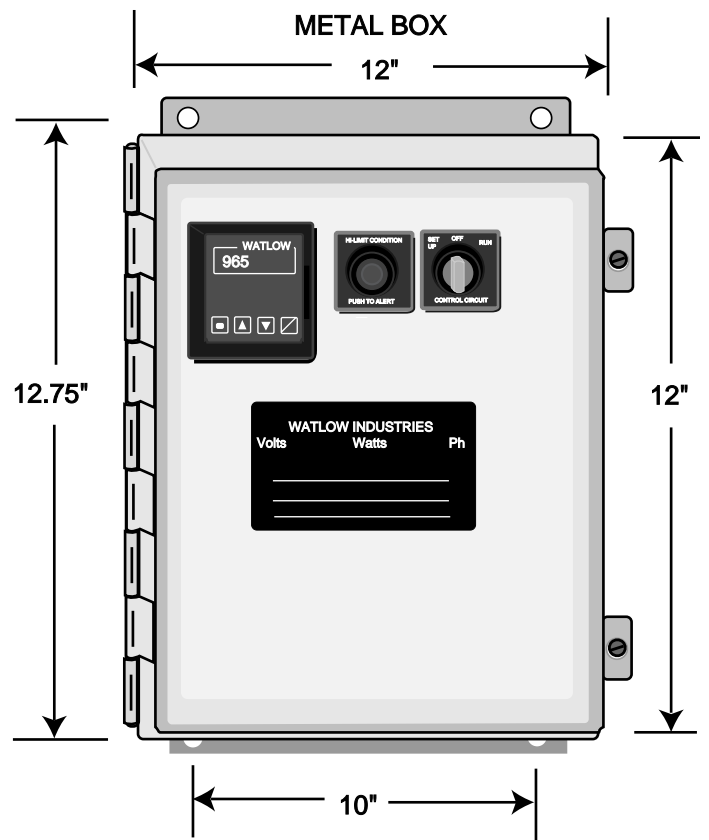
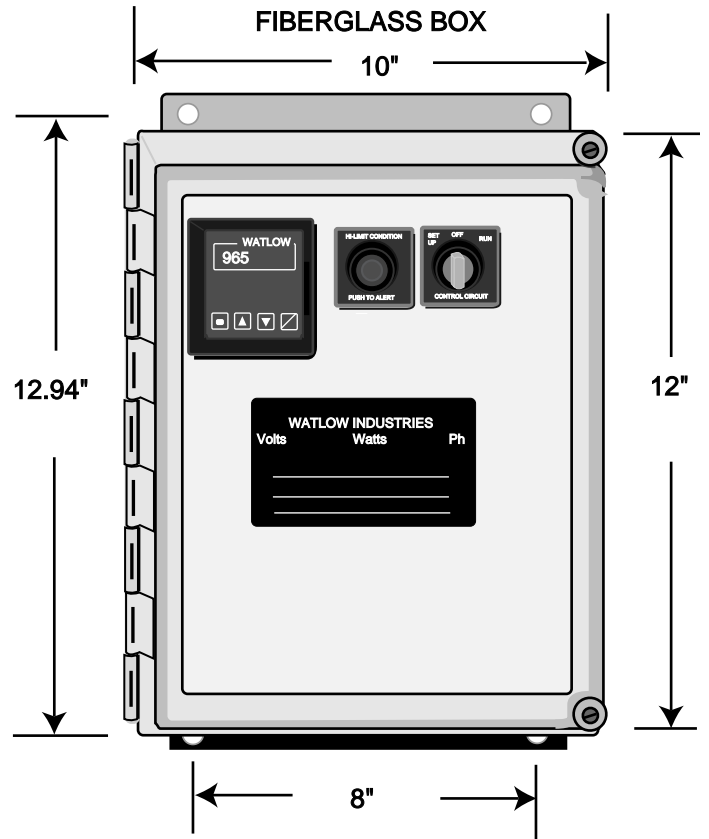
0=No transformer

Delivery:

5 to 10 working days

Notes:

- * Not recommended for use with mechanical contactors.
- If selected, control transformer will be wired for 480 volts unless otherwise specified. Transformer can be field converted to operate at 240VAC.
- If no transformer option is selected, 120VAC service is required. Connections on terminal block provided.



CONTROL BOX

Control Box Model #2 includes either a process controller or a high limit controller.

Ordering Information

C B 0 0 0

Base Model

CBP92J4X000KD20

Base includes:

- Series 92 ON/OFF controller, Type J T/C input (32 to 600°F)
- NEMA 4X fiberglass box (10" x 8" x 6")
- Mercury displacement relay, 2 pole, 25 amp
- Illuminated ON/OFF control switch
- Control fusing

Options

Controller

P92J = Series 92, ON/OFF controller, Type J T/C input (32 to 600°F)

P92K = Series 92, ON/OFF controller, Type K T/C input (32 to 2282°F)

965J = *Series 965 PID controller, Type J T/C input

965K = *Series 965 PID controller, Type K T/C input

L92J = Series 92 high limit, Type J T/C input (32 to 1382°F)

L92K = Series 92 high limit, Type K T/C input (32 to 2282°F)

L92J = Series 92 high limit, Type J T/C input (32 to 1382°F)

L92K = Series 92 high limit, Type K T/C input (32 to 2282°F)

L92K = Series 92 high limit, Type K T/C input (32 to 2282°F)

Enclosure

4X = NEMA 4X fiberglass box (10" x 8" x 6")

12 = NEMA 12 metal box (10" x 8" x 6")

Power Switching Device

3M3 = Mechanical contactor, 3 pole, 35 amp

3M5 = Mechanical contactor, 3 pole, 50 amp

KD3 = Mercury displacement relay, 3 pole, 25 amp

KD2 = Mercury displacement relay, 2 pole, 25 amp

LD3 = Mercury displacement relay, 3 pole, 35 amp

LD2 = Mercury displacement relay, 2 pole, 35 amp

MD3 = Mercury displacement relay, 3 pole, 50 amp

MD2 = Mercury displacement relay, 2 pole, 50 amp

X=Transformer

0=No transformer

Delivery:

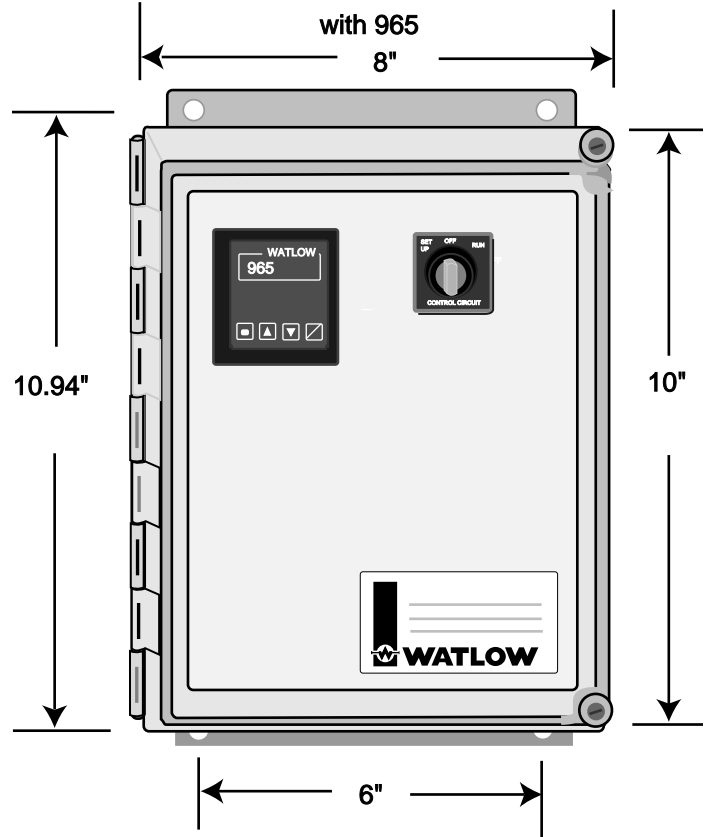
5 to 10 working days

Notes:

- * Not recommended for use with mechanical contactors.
- If selected, control transformer will be wired for 480 volts unless otherwise specified. Transformer can be field converted to operate at 240VAC.
- If no transformer option is selected, 120VAC service is required. Connections on terminal block provided.
- Terminals provided for remote control to be used in series with contactor coil — 120VAC potential.

FIBERGLASS BOX

with 965



METAL BOX

with series 92 inside

