

TEMPERATURE CONTROLLERS



CG-15001

CG-15001 DIGITAL TEMPERATURE CONTROLLER, PID, CHEMGLASS

Economical temperature controller for applications that do not require the precise temperature ($\pm 0.1^\circ$) of the J-Kem® controller. Auto tune PID process controller for use with Chemglass oil baths or mantles up to 5L. Controller has 1500 watts of power and will control temperatures to $\pm 1.0^\circ\text{C}$.

Specifications:

Dimensions: 2.5" H x 3.75" W x 5.5" D
Power: 12 AMPS @ 1500 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range ($^\circ\text{C}$)
CG-15001-10	"T"	Blue	-200 to 250
CG-15001-11	"J"	Black	0 to 800
CG-15001-12	"K"	Yellow	-50 to 1200



CG-3200

CG-3200 TEMPERATURE CONTROLLER, J-KEM®, MODEL 210

J-Kem® Scientific microprocessor based temperature controller. A patented 8-bit computer adjusts power to the heater 2048 times per second permitting accurate control on small scale reactions. The Model 210 has 1200 Watts of power which is sufficient for heating mantles up to 5L in size along with most laboratory ovens and hot plates. Controller has the ability to display temperature without heating. The Model 210 controls temperature to within $\pm 0.1^\circ\text{C}$ of liquids from 1ul to 5L. Available with a choice of Type "T", "J", or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: 1/8" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, 10FT COILED EXTENSION CORD, AND A 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 3.25" H x 5.25" W x 7.25" D
Power: 10 Amps @ 120VAC, 1200 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range ($^\circ\text{C}$)
CG-3200-01	"T"	Blue	-200 to 250
CG-3200-02	"J"	Black	0 to 800
CG-3200-03	"K"	Yellow	-50 to 1200



CG-3202

CG-3202 TEMPERATURE CONTROLLER, J-KEM®, MODEL 210/T

Similar to CG-3200, but with the addition of a 100 hour digital timer to turn heating ON or OFF when time has expired. Available with a choice of Type "T", "J", or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: 1/8" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, 10FT COILED EXTENSION CORD, AND A 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 3.4" H x 6.75" W x 6" D
Power: 10 Amps @ 120VAC, 840 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range ($^\circ\text{C}$)
CG-3202-01	"T"	Blue	-200 to 250
CG-3202-02	"J"	Black	0 to 800
CG-3202-03	"K"	Yellow	-50 to 1200

TEMPERATURE CONTROLLERS

CG-3204 TEMPERATURE CONTROLLER, J-KEM®, MODEL 250

J-Kem® Scientific microprocessor based temperature controller. A patented 8-bit computer adjusts power to the heater 2048 times per second permitting accurate control on small scale reactions. The Model 250 has 3 power outlets for maximum versatility in research. Two of the outlets are used for heating up to 1800 watts (mantles up to 22L).

The third outlet (360 watts), used normally for cooling, is programmable to provide power below, above, or at the entered temperature. This third outlet can also be used to turn on an alarm for an over or under temperature condition. Controller has the ability to display temperature without heating. The Model 250 controls temperature to within $\pm 0.1^{\circ}\text{C}$ of liquids from 1ul to 22L. Available with a choice of Type "T", "J" or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: 1/8" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, 10FT COILED EXTENSION CORD, AND A 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 3.25" H x 7.5" W x 9" D
 Power: Heating Outlets #1 & #2: 15 Amps @ 120VAC, 1800 Watts
 Cooling/Alarm Outlet #3: 3 Amps @ 12VAC, 360 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range ($^{\circ}\text{C}$)
CG-3204-01	"T"	Blue	-200 to 250
CG-3204-02	"J"	Black	0 to 800
CG-3204-03	"K"	Yellow	-50 to 1200



CG-3204



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TEMPERATURE CONTROLLERS



CG-3206

CG-3206 TEMPERATURE CONTROLLER, J-KEM®, MODEL 260/T

Similar to CG-3205, but with the addition of a 100 hour digital timer to turn heating ON or OFF when time has expired. Available with a choice of Type "T", "J", or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: 1/8" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, 10FT COILED EXTENSION CORD, AND A 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 3.25" H x 7.5" W x 9" D
 Power: 15 Amps @ 120VAC, 1800 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range (°C)
CG-3206-01	"T"	Blue	-200 to 250
CG-3206-02	"J"	Black	0 to 800
CG-3206-03	"K"	Yellow	-50 to 1200



CG-3207

CG-3207 TEMPERATURE CONTROLLER, J-KEM®, MODEL 270

J-Kem Scientific microprocessor temperature controller. The only temperature controller available with a completely INDEPENDENT BACK UP controller to guard against accidents from equipment failure.

The desired temperature is entered into the digital display of the setpoint controller which regulates heating. A high temperature limit is then entered into the second digital back-up. If the reaction reaches the setpoint of the second controller, power is shut off from the output circuit until the unit is manually reset. Both controllers independently monitor the reaction temperature and in the event that one controller fails, the other takes over to prevent an accident. Available with a choice of Type "T", "J", or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: A DUAL ELEMENT 1/4" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, A DUAL ELEMENT THERMOCOUPLE EXTENSION CORD AND A 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 3.25" H x 7.5" W x 9" D
 Power: 15 Amps @ 120VAC, 1800 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range (°C)
CG-3207-01	"T"	Blue	-200 to 250
CG-3207-02	"J"	Black	0 to 800
CG-3207-04	"K"	Yellow	-50 to 1200



CG-1972

CG-1972 TEMPERATURE CONTROLLER, J-KEM®, MODEL HCC

J-Kem® Scientific HCC controller is designed to power large scale equipment such as 50 to 100 Liter heating mantles. Designed with the same safety features as the Model 270, the HCC incorporates a 100 hour digital timer to turn heating on and off.

Specifications:

Dimensions: 5.5" H x 12" W x 12" D
 Power: 30 Amps @ 120VAC, 3600 Watts

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range (°C)
CG-1972-65	"T"	Blue	-200 to 250
CG-1972-62	"K"	Yellow	-50 to 1200

TEMPERATURE CONTROLLERS

CG-3209 DUAL TEMPERATURE CONTROLLER, J-KEM®, GEMINI

J-Kem® Scientific Gemini-2 dual temperature controller permits control of two independent reactions with digital displays for both channels. Each channel is 1200 Watts MAX (1800 Watts total), 15 Amps @ 120VAC, and features advanced microprocessor PID control algorithm. Channel one also has a 100 hour digital timer. Safety features include 100% solid state, double fused, audible error alarm, and over temperature circuitry that disconnects power if an over temperature condition occurs. Available with a choice of Type "T", "J", or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: (2) 1/8" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, (2) 10FT COILED EXTENSION CORD, AND (2) 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 3.5" H x 7.75" W x 8.75" D
Power: 15 Amps @ 120VAC, 1200 Watts MAX/Channel, 1800 Watts (Total)

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range (°C)
CG-3209-01	"T"	Blue	-200 to 250
CG-3209-02	"J"	Black	0 to 800
CG-3209-03	"K"	Yellow	-50 to 1200



CG-3209

CG-3210 DUAL TEMPERATURE CONTROLLER, J-KEM®, APOLLO

J-Kem® Scientific Apollo dual temperature controller features two independent temperature controllers in a single cabinet. Each independent channel has its own high power outlet, 100 hour timer to turn heating/cooling on or off at a user set time, and solid state over temperature protection circuit. Temperature ramping and serial communications are also provided with this unit. Available with a choice of Type "T", "J", or "K" thermocouple.

PLEASE NOTE: CONTROLLER IS SUPPLIED COMPLETE WITH: (2) 1/8" DIAMETER X 12" LONG TEFLON COATED THERMOCOUPLE, (2) 10FT COILED EXTENSION CORD, AND (2) 14/20 TEFLON THERMOCOUPLE ADAPTER.

Specifications:

Dimensions: 4" H x 8" W x 9" D
Power: 10 Amps @ 120VAC, 1200 Watts MAX/Channel, 1800 Watts (Total)

Part Number	Thermocouple Type	Thermocouple Color	Temperature Range (°C)
CG-3210-01	"T"	Blue	-200 to 250
CG-3210-02	"J"	Black	0 to 800
CG-3210-03	"K"	Yellow	-50 to 1200



CG-3210