

Thermolyne Furnace Controllers



Temperature Controllers



Type CP53600 & Type CP53700

Essential Controls for Your Heavy Duty Furnace!

- Digital display of chamber temperature and set point
- Adjustable programmable over temperature protection (OTP)
- Thermocouple break protection

- **D1:** Digital programmable control with 4 stored programs, 16 segments per program. The controller also includes RS232 communications. The furnaces that use this control also utilize a mechanical Over Temperature Protection relay.
- Output power adjustment can be set from 1% to 100% for furnace operation below 260°C (500°F).
- No battery backup is required for date retention up to one year with instrument unpowered.
- Controllers can be operated in ambient temperatures of 0–50°C (32–122°F) and field adjusted to change input type, ramp rates and dwell times.
- Group B1, C1 & D1 controllers are self-tuning and automatically install optimum tuning parameters.
- Solid state relay to control power to furnace.
- All hardware for mounting, plus conduit and wiring to connect controller to a Barnstead Thermolyne muffle furnace.

Product Description

Three Control Models:

- **B1:** Digital single set point control with a single ramp to set point and a dwell. A single display shows actual temperature or set point. The furnaces that use this control also utilize a mechanical Over Temperature Protection relay.
- **C1:** Digital programmable control with one stored program of 8 segments. The furnaces that use this control also utilize a mechanical Over Temperature Protection relay.

PRODUCT SPECIFICATIONS

Type	Overall Dimensions Inches (cm)			Calibrated for Thermocouple Type (Supplied with Controller)	Shipping Weight Lb. (kg)
	W	H	D		
CP53600	5.5 (13.9)	10.5 (26.6)	13.5 (34.2)	F (Plantinel II)	17 (7.71)
CP53700	5.5 (13.9)	10.5 (26.6)	11.5 (29.2)	F (Plantinel II)	17 (7.71)

ORDERING INFORMATION

Model #	Control Group	Control Circuit Voltage	Volts Load Circuit	Max Load Current	Phase	Operating Temperature Range °F	US List Price
CP53610	B1	208/240	208/240	35	1	32–2192	\$2,307.00
CP53615	B1	120	120	35	1	32–2192	\$2,307.00
CP53610-70	C1	208/240	208/240	35	1	32–2192	\$2,811.00
CP53615-70	C1	120	120	35	1	32–2192	\$2,811.00
CP53640	D1	208/240	208/240	35	1	32–2192	\$2,811.00
CP53645	D1	120	120	35	1	32–2192	\$3,800.00
CP53710	B1	208/240	100–500	50	3	32–2372	\$2,309.00
CP53715	B1	120	100–500	50	3	32–2372	\$2,309.00
Model #	Control Group	Control Circuit Voltage	Volts Load Circuit	Max Load Current	Phase	Operating Temperature Range °F	US List Price
CP53710-70	C1	208/240	100–500	50	3	32–2192	\$2,811.00
CP53715-70	C1	120	100–500	50	3	32–2192	\$2,896.00
CP53740	D1	208/240	100–500	50	3	32–2192	\$3,800.00
CP53745	D1	120	100–500	50	3	32–2192	\$3,800.00
CP53750	B1	208/240	100–500	30 + 30	1	32–2192	\$2,309.00
CP53750-70	C1	208/240	100–500	30 + 30	1	32–2192	\$2,811.00
CP53780	D1	208/240	100–500	30 + 30	1	32–2192	\$3,800.00