

Technical Specifications

Technical Operating Limits

Absolute Voltage Limits	240 Vac +10/-20%
Input Line Voltage	Nominal 120 to 240 Vac
Ambient Temperature	32 to 122°F (0 to 50°C)
Relative Humidity Tolerance	90% non-condensing
Frequency	50-60 Hz

Performance Specifications

Auto Control Mode	CompuCycle® system (PWM, 200 msec)
Control Accuracy	± 0.1°F (± 0.1°C) dependent on the total thermal system
Temperature Stability	± 0.5% of full scale over the ambient range
Calibration Accuracy	Better than 0.2% of full scale
Power Response Time	Better than 400 ms
Process Sampling	100 ms
°F/°C	Field Configurable
CompuStep® System	
Control Mode	PWM
Duration	Approximately 5 min.
Output Voltage	PWM % with zero cross
Override Temperature	200°F (93°C)
Operation Mode Priority	a: T/C open, T/C reverse, Shutdown and open heater override CompuStep® b: Manual mode overrides T/C open, T/C reverse

Dimensions

	RMB/1-3	RMB/6	RMB/12
Height	3-1/2"	6"	6"
Width	10-1/4"	17-1/4"	22-1/4"
Depth	7"	13-1/2"	13-1/2"
Weight	4.5 lbs.	17 lbs.	20 lbs.

Input Specifications

Thermocouple (T/C Sensor)	Type "J" or "K" grounded or ungrounded
External T/C Resistance	Max 100 ohms for rated accuracy
T/C Isolation	Channel to channel common mode voltage ± 1.5 Vdc
Cold Junction Compensation	Automatic, better than 0.02°F/°F (0.03°C/°C)
Input Impedance	10 megohms
Input Protection	Diode clamp RC filter
Input Dynamic Range	Greater than 999°F (537°C)
Common Mode Rejection Ratio	Greater than 100 dB
Power Supply Rejection Ratio	Greater than 70 dB

Output Specifications

Voltages	240 Vac nominal, single phase 120 Vac available
Power Capability	15 amperes, 3600 watts @ 240 Vac per zone *
Overload Protection	Type (ABC) fuses
Power Line Isolation	Optically and transformer isolated from ac lines. Isolation voltage is greater than 2500 volts
Output Drive	Internal solid state triac

* 15 amperes, 3600 watts @ 240 Vac per cabinet RMB/1-3

Human Interface (HMI)

8 Control Switches, 6 Status LED's per zone
 Degrees "F" and "C" Status indicators
 LCD Display, 2 Line x 24 Characters (RMB/6) - (RMB/12x2)
 2 Line x16 Characters (RMB/1-3)