

EXATEMP®

MTS100 Touch Screen Hot Runner Temperature Controllers



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Features



- PID auto temperature control
- Soft Start mode to avoid heater damage due to moisture
- Editable zone name (auto/manual)
- Automatic shutdown for heater abnormality
- Current, output percentage display function
- Fast alternative for 230V/380V power input
- Easy swapping for individual module failures
- Slave function for thermocouple disconnection
- 8 curves display (temperature, output percentage)
- Synchronized temperature raising/lowering
- Module memory (internal and external USB drive)
- Internal alarm buzzer (with alarm sound stop switch)
- Detection for heater open and short circuits
- To protect the power source input: wrong wiring and single phasing.
- Selectable two output trigger modes (Phase angle / Zero cross)
- Temperature range: Thermocouple K TYPE - 0~600°C (32~999°F) / J TYPE - 0~600°C (32~999°F)
- Self diagnosis log: (current, voltage, heater impedance, power, thermocouple, heater, fuse, TRIAC status)
- Group setup function
- Auto/Manual function
- Selectable six alarm modes
- Load Power Usage display per zone
- Detection for fuse breakage
- Setting for output percentage limit
- Power balance detection and display
- Thermocouple break and inverse detect
- Selectable two thermocouple types (J/K)
- Selectable two temperature scales (°C/°F)
- Adjustable user perspective: 110°~145°
- Rack type cabinet design
- USB port
- 7" TFT SVGA LCD
- NAND Flash 8M +128M
- Module section 15A 2 zone / 30A 1 zone
- The module plug in designed for maintains easily



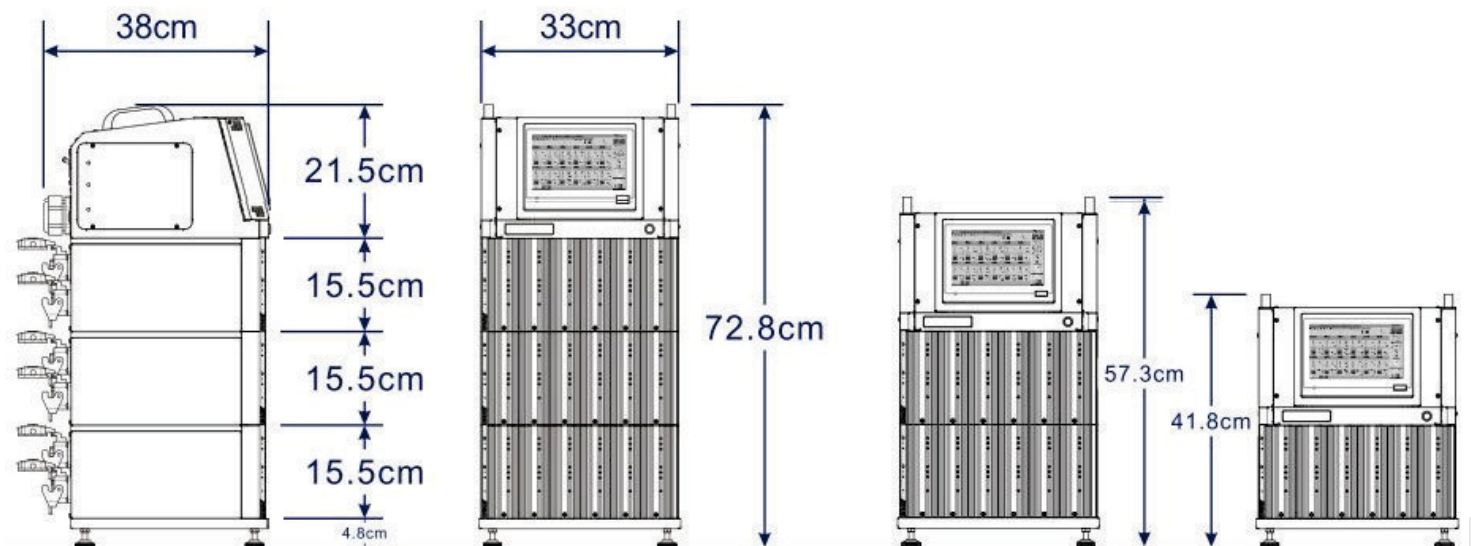
Technical Specifications

- Operating Ambient Temperature : 20~70 °C / 4~158 °F.
- Storage Temperature : 10~50 °C / 14~122 °F.
- Operating Humidity : 0~80% RH (No condensation)
- Input Power : 3-Ph + N + E (5 wire) 380 – 415 VAC
- Frequency Range : 50/60 Hz, +/- 5%
- Measurement Accuracy : ±1.0 °F (0.5 °C) for the range 32 °F to 932 °F (0 °C to 500 °C)
- Calibration : Standard
- Cold Junction Error : ±1.0 °F (0.5 °C) @ 77 °F (25 °C) typically
- Temperature Stability : ±0.1 °F (0.05 °C) / °F (°C) from ambient
- Control Stability : ±1 digit - under steady state conditions
- Self Tuning Method : Auto / Manual
- Thermocouple Inputs : Grounded or Ungrounded Type J standard (Type K optional)
 - Sensor break and reverse detection
 - Upscale failure mode
 - High impedance input with zone to zone isolation
- Heater Outputs : All zones rated at 240 VAC
 - 16 Amps per zone standard (20 or 30 Amps Optionnel)
 - Short circuit protection for each zone (both legs fused)
- Alarms : Open Circuit Heater; Open Circuit Fuse(s); High and Low Temperature; Open, Shorted or Reversed Thermocouple(s) Ground Fault
- Dimensions – H X W X D (cm) : As below

36 Zones

24 Zones

12 Zones



* Specifications subject to change without prior notice



System Components



System = [Controller] + [Cables]+ [Terminal Box & Connector Set]

Descriptions & Codes

Sr. No.	Controller Description	Controller Code
1	12 Zone Temperature Control System with Complete Kit.	MTS100-12
2	16 Zone Temperature Control System with Complete Kit.	MTS100-16
3	20 Zone Temperature Control System with Complete Kit.	MTS100-20
4	24 Zone Temperature Control System with Complete Kit.	MTS100-24
5	30 Zone Temperature Control System with Complete Kit.	MTS100-30
6	36 Zone Temperature Control System with Complete Kit.	MTS100-36

