

SERIES SY

Athena's low-voltage hot runner temperature control systems combine 240 Vac and 24 Vac into one unit and are available in either Series AIM or Series RMB control module configurations. A special safety interlock prevents insertion of a 24 Vac control module into a 240 Vac mainframe. Both controllers share these advanced features:

- Dual digital displays
- Auto-tuning, with adjustable proportional band and rate
- Advanced diagnostics automatically inform the user of fault conditions, including open thermocouple, shorted thermocouple, reversed thermocouple, open heater, and high and low process temperature.
- CompuStep® provides gradual phase angle-fired voltage during warmup.
- CompuCycle® utilizes zero crossover power to improve response time, reduce thermal fatigue, and prolong heater life.
- Bumpless auto/manual transfer
- Wide range of accessories and control modules available to customize system

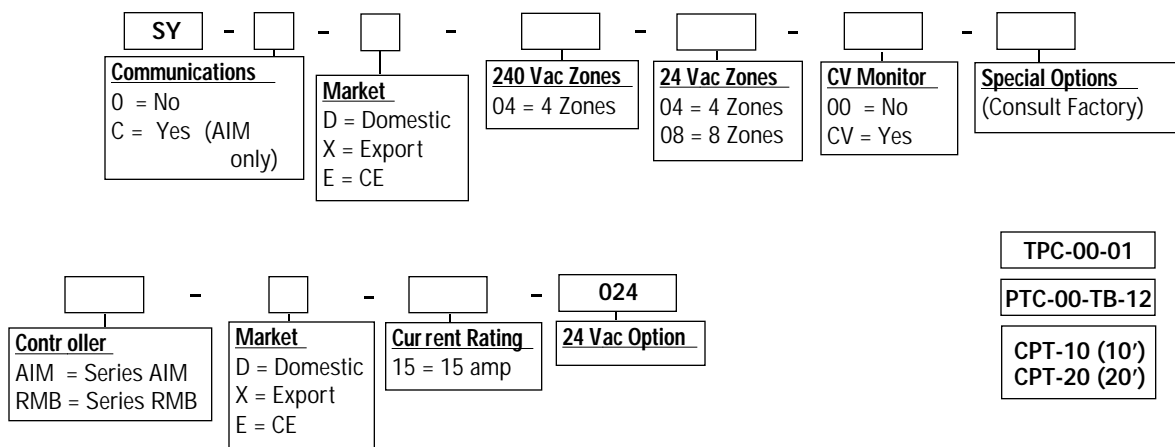


System Configuration

Athena® low-voltage hot runner control systems include the mainframe cabinet with fused circuit breaker/disconnect, step-down transformer, and floorstand. Controller modules, mold connectors, terminal boxes, and combination cables must be ordered separately (see ordering information below).



Ordering Information



The Athena Series RMB controller features an easy-to-use operator keypad, two LED displays, and three discrete indicators for heat-current, alarm and manual mode.

- Accepts Type J or Type K thermocouple input (jumper selectable)
- Built-in loop break, short, open, and reverse thermocouple protection
- Optional triac failure protection
- Ground-fault protection (U.S. model)
- Preset alarms at 30° F (17°C)
- Jumper-selectable soft-start mode
- Current monitor feature displays average current to load



The Athena Series AIM controller features easy startup in one of three pre-determined control modes selected by the user.

- Lower and upper setpoint limits can be used to keep setpoint at safe operating temperature range
- Separately adjustable high and low deviation alarms
- In case of an open thermocouple, the operator can program the controller for one of three output states: Off, Last % Output, or User-Specified % Output
- Multi-level security “lockout” prohibits access to the module
- Current monitor allows the user to monitor the current to the heater
- 17 user-adjustable, front panel parameters
- Control via front panel or through communications interface with ACM/ASM module