



# GAS IGNITION CONTROLS

## RAM-1, -2, -3 DIRECT SPARK IGNITION CONTROLS

The RAM direct spark ignition controls are 24, 120, or 240 VAC. When the thermostat calls for heat, RAM's DSI Control simultaneously initiates synchronous ignition sparking, ignition trial timer and the main burner valve(s). Flame recognition at the main burner halts the ignition trial timer and ignition sparking. Main burner flame is monitored at a synchronous frequency for the duration of the heating cycle. Should the main burner fail to ignite, the control will automatically go into safety lockout. Lockout is reset through the thermostat by interrupting power to the control for a minimum of 5 seconds. Should the main burner flame fail during the heat cycle (control in monitor mode), one re-ignition attempt will be made. A shorted ignition electrode and open or shorted high voltage wire will result in control lockout.

### SPECIFICATIONS

Electrical Rating (input)	24V 50/60 Hz, 50mA 120V 50/60 Hz, 50 mA 240V 50/60 Hz, 25 mA
Gas valve relay ratings	5.0 amp
Temperature range	-40 to 175°F



790-100

### ORDERING DATA

RAM PART NO.	UNI-LINE ORDER NUMBER	PRE-PURGE	NON PRE-PURGE	REMOTE	LOCAL	IGNITION ATTEMPTS (BEFORE LOCKOUT)	VALVE TRIAL TIME (SEC.)	SUPPLY VOLTAGE				OPEN BOARD	ENCLOSED	EDGE BOARD	MOLEX	1/4 Q.C.	COMMENTS
								12 VDC	24 VAC	120 VAC	240 VAC						
RAM-3	790-300		•		•	1			•				•				MARCO 113349A; CISSEL GA-00765
RAM-3-SP	790-301		•		•	1			•				•				INFRARED DYNAMICS 90051-1
RAM-3MC10-01	790-325	•		•		3			•				•				ROBERTS GORDON 90434004, 90434002
RAM-3MC2-01	790-314	•			•	3			•				•			•	L.B. WHITE 120-00810
RAM-3MC4-03	790-319	•		•		3			•			•				•	THOMAS & BETTS 147102, REZNOR
SQ	790-789		•		•	1	10-15			•			•				ALLIANCE LAUNDRY M406789
RAM-1	790-100		•		•	1				•			•				CISSEL GA-00765, WHITE 120-07637 DESA 097807 SCHEU 6643 & 6960
RAM-1M5-01	790-107	•			•	1				•			•			•	SCHEU 7499 & 4799
RAM-2	790-200		•		•	1					•		•				