



INSTALLATION DATA

780-001 / 780-002 / 780-003

UNIVERSAL IGNITION MODULE

REPLACEMENT UNI-KIT®

Robertshaw® Universal Ignition Control Uni-Kit® is available in both nonlockout (780-001) and lockout (780-002). The 780-003 is lockout with a prepurge function.

The Universal Ignition Control Uni-Kits feature a flame sense circuit that automatically detects the presence of a remote sense probe (2 rod system) or it switches to local sense (1 rod system) utilizing the pilot assembly as a sensing source. If both systems are provided, failure of one causes automatic reversion to the other.

780-001 (NONLOCKOUT)

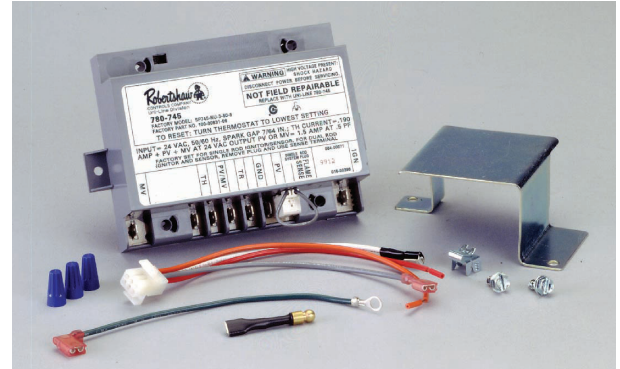
The automatic recycle features assure that, in the event of flame failure, main gas is disabled and the spark repetition sequence is restarted until pilot gas is ignited. Only after pilot ignition has been reestablished can main gas be returned to the burner.

780-002 (LOCKOUT)

These kits have a lockout feature to shut off all gas to the furnace, should pilot ignition fail to occur after a predetermined time period. The 780-002 provides 3 tries for ignition. Each ignition period is 60 seconds followed by a 5 minute time delay between ignition attempts. After 3 tries if no pilot flame is sensed, unit goes into lockout and must be reset at the thermostat.

780-003 (LOCKOUT W/PREPURGE)

Same features as the 780-002 above, except it has a 45 second prepurge function.



SPECIFICATIONS

Input voltage	24V AC to 50/60 Hz
Transformer	24V AC / 20 VA
Safety lockout timing (780-002 only)	60 seconds*
Prepurge (780-003 only)	45 seconds*
Spark rate	3 to 4 sparks per second
Relay contact ratings	
Pilot valve	1 amp at .5 PF
Main valve	1 amp at .5 PF
Combined load	1.5 at .4 PF
Flame sense current	.7 μ A DC @ 25°C / 24 VAC
Maximum total current load	1.5 amp
Flame failure reignition time	.8 seconds maximum
Thermostat anticipator setting	.7 amp
Ambient temperature rating	- 40°F to 175°F (- 40°C to 80°C)
Relative humidity	95% noncondensing at 104°
*The SP745 lockout ignition control used in the 780-002 and 780-003 Uni-Kit provides 3 tries for ignition. Each ignition period is 60 seconds followed by a 5 minute time delay between ignition attempts. After 3 tries if no pilot flame is sensed, the unit goes into lockout and must be reset at the thermostat.	