

# Gas Burner Controls—Ignition Controls

## Y8610F and U Universal Retrofit Intermittent Pilot Gas Burner Ignition Systems



Each Y8610 system includes:

- S8610F or U Intermittent Pilot Module.
- VR8204 or VR8304 Intermittent Pilot Dual Valve Combination Gas Control with an ON-OFF manual valve, pressure regulator and two automatic main gas valve operators. Includes reducer bushings.
- 393691 LP Gas Conversion Kit with Y8610U.
- 392431 Igniter-Sensor Assembly. Includes ceramic-insulated Kanthal rod that attaches to the existing pilot burner in place of the thermocouple.
- 394800-30 Ignition Cable. 30 in. (762 mm) cable with connectors.
- 393690-14 Flange Assembly with Y8610U. Includes 3/4 in. straight flange with O ring, 3/16 hex screws and wrench.
- Wiring Harness. 30 in. (762 mm) wiring harness with 1/4 in. quick-connect terminals.
- Reducer bushings for gas control.
- Adhesive mounting tape for S8610.
- Miscellaneous installation hardware—screws, solderless connectors, ground rod and adapter.

**Complete kits for converting conventional standing pilot systems to intermittent pilot systems. For use with 24 Vac gas-fired atmospheric furnaces, boiler and heating appliances.**

- Y8610F kits are for use with natural gas only: continue trial for ignition until the pilot lights or the system is shutdown manually.
- Y8610U kits are for use with natural or LP gas: provides 100 percent pilot gas shutoff if pilot fails to light; after 6-minute delay, trial for ignition is repeated. Ignition trial/delay sequence is repeated until the appliance lights or call for heat is removed.

- *SUPER TRADELINE model.*

### ELECTRICAL RATINGS:

Power Supply: 24 Vac (nominal), 60 Hz.

Current: 0.7A (includes both module and gas control).

TERMOSTAT HEAT ANTICIPATOR SETTING—0.7A plus current ratings of other devices in thermostat control circuit.

Compatible with all open-close switch type 24 Vac thermostats capable of supplying rated voltage and current to the module. Also compatible with Honeywell electronic thermostats that directly switch the ignition module.

Order Number	Includes	Capacity (Btuh) <sup>c</sup>	Inlet-Outlet Size (in.)	Temperature Ratings		Type of Gas
				F	C	
Y8610F5003	S8610F1008 <sup>a</sup> Control Module and VR8204A2142 Combination Gas Control	150,000	1/2 x 1/2	0 to 175	-18 to +79	Natural
•Y8610U3003	S8610U1003 <sup>b,d</sup> Control Module and VR8304M3558 Combination Gas Control, two 3/4 x 1/2 in. reduce bushings.	270,000	1/2 x 3/4	-40 to +175	-40 to +79	Natural or LP

<sup>a</sup> With non-100 percent shutoff.

<sup>b</sup> With 100 percent pilot gas shutoff and lockout, 90 second maximum timed trial for ignition.

<sup>c</sup> 0.64 sp gr Nat. gas at 1 in. wc (0.25 kPa) pressure drop.

<sup>d</sup> Includes automatic vent damper plug.