Installation Data Sheet

Hot Surface Igniter Integrated Furnace Control Part No. 695-200

Before Installing this Control Board

CAUTION:

- Read both sides of this Installation Data Sheet thoroughly.
- Only qualified, trained HVAC service personnel are to install this product.
- Install this product in accordance with all applicable local codes.

WARNING:

Turn off all electrical power to the equipment being serviced.

This Robertshaw Hot Surface Igniter control board is a direct replacement for the Rheem part numbers as seen in the table below:

Manufacturer's P/N (UTECH)	Rheem (OEM) P/N
1012-925A	62-24268-01
1012-925B	62-24268-02
1012-925C	62-24268-03

CAUTION: This control board (P/N 695-200) is only approved for the above applications as a direct replacement. It is not approved for general applications.

Installing this Control Board

1. Turn off power to the unit you are replacing.
2. Record all wire colors and switch positions of the control board you are replacing.
3. Disconnect one wire at a time, and reconnect it immediately in the same position on the replacement (new) board. Pull wires by their crimp so the quick connect wire terminal(s) will not be damaged.
4. When all wires have been moved to the new board, remove the old board from the chassis.
6. Install the new board into existing holes.
7. Set the DIP switch as desired for fan blower off time. (See the chart on the control board.)
   NOTE: On position is shown as a 1 in chart, and Off position is shown by a 0
8. Restore power to the unit.
9. Test complete installation for proper operation.

Electrical Ratings

Input Voltage 85 to 135VAC (120VAC nominal)

Draft Inducer Blower	2.2 FLA, 2.2 LRA at 120VAC
Hot Surface Igniter	5 Amps at 120 VAC
Circulating Blower	13.8 FLA, 26.0 LRA at 120 VAC
Electronic Air Cleaner	1 Amp at 120 VAC

Input Voltage 18 to 30 VAC (24 VAC nominal)

Gas Valve Output	1.0 amp at 24 VAC 0.5 P.F.

Control Board Detail

Number	CONNECTORS	
	P1	P2
1		Igniter 120V
2	Gas Valve Rtn	
3	HL Roll-Out Rtn	Igniter Rtn
4	Gas Valve	Inducer 120V
5	PSW Rtn	
6	PSW	Inducer Rtn
7	Flame Sense	
8	HL Roll-Out	
9	Ground	

P3 Terminal Strip Definition

C = 24VAC common
R = 24VAC to thermostat
W = Heat signal from thermostat
G = Fan signal from thermostat
Y = Cool signal from thermostat

Spade Terminal Definitions

E1 = 24VAC
E2 = 24VAC Rtn
E3 = Neutral
E4 = Neutral
E5 = Neutral
E6 = Neutral
E7 = Test speed-up
E8 = L1
E9 = L1
E10 = Heat
E11 = Cool
E12 = Unused motor
E13 = EAC

NOTE: See other side of sheet for the wiring diagram.

LED Error Codes

Green – Indicates system status
- Steady on: System OK.
- Steady off: Board control fault or no power applied
- 1 flash: Ignition failure (control in one-hour lockout)
- 2 flashes: Pressure switch fault, fails open (switch stuck open)
- 3 flashes: Limit switch open (main or auxiliary)
- 4 flashes: Pressure switch fault, fails closed (switch stuck closed)

Yellow – Indicates flame status
- Steady on: Normal flame is sensed.
- 1 flash/second: Slightly weak flame
- 4 flashes/second: Weak flame

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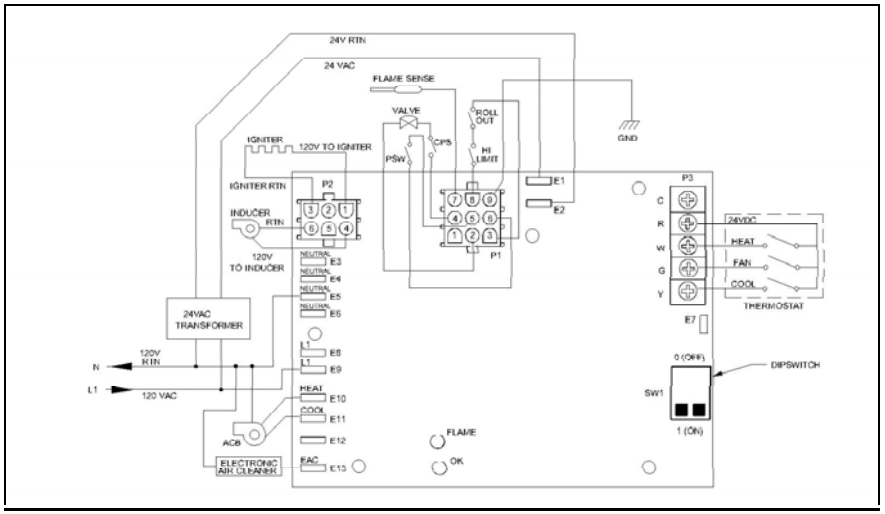
Hot Surface Igniter **Integrated Furnace Control** **Part No. 695-200**

Wiring Diagram



CAUTION:
Only qualified, trained HVAC service personnel are to install this product.

WARNING
Turn off all electrical power to the equipment being serviced.

Timing Specifications

	Normal Mode	Test Speed-up Mode
Pressure Switch Proving	10 sec	10 sec
Pre-Purge	5 sec	0 sec
Igniter Warm-Up	30 sec	14 sec
Ignition Activation Period	7 sec	2 sec
Retries	3 times	3 times
Recycles	4 times	4 times
Heat Delay for Blower On	20 sec	1 sec
Heat Delay for Blower Off	90/120/160/180	10 sec
Post Purge	10 sec	5 sec
Cool Delay for Blower On	2 sec	0 sec
Cool Delay for Blower Off	45 sec	4 sec

Environmental Ratings

Operating Temperature = -22° to +149° F
Storage Temperature = -40° to +85° C (-40° to +185° F)

Humidity = 10% to 95% R.H. non-condensing

NOTE: See other side of sheet for installation instructions.