



# BEECH OVENS

SELECTED BY THE WORLDS LEADING HOTELIERS  
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ABN. 14115371741

4th.June 2008.

## SETTING UP TWO BURNER GAS SYSTEM

The "double- gas system for the Beech Oven is designed to operate in a prescribed method.

It is very important that the gas and electrical connections between the "Control Cabinet" and the burners is made correctly.

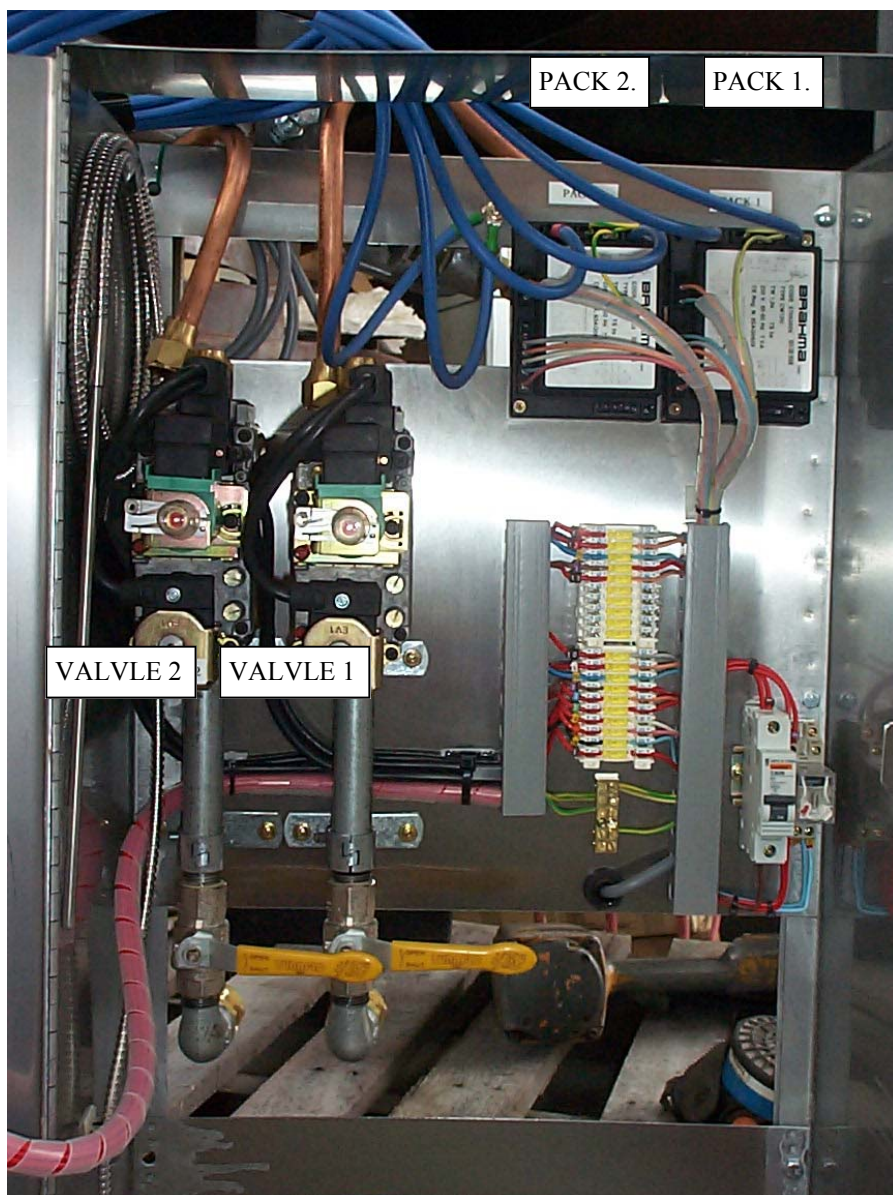
The system is made up with "2 ZONES"

**ZONE 1 = PACK 1 (Brahma) + VALVE 1 (SIT) + BURNER 1 (usually the "FR" nozzle burner)**

**ZONE 2 = PACK 2 (Brahma) + VALVE 2 (SIT) + BURNER 2 (usually the "Display" burner)**

### IT IS CRITICAL THAT:

**THE "BLUE WIRES FROM "PACK 1" GOT TO THE ELECTRODE AT BURNER 1 AND  
THE GAS PIPE FROM "VALVE 1" IS CONNECTED TO "BURNER 1"  
(SAME FOR ZONE 2 COMPONENTS)**



### REFER:

PAGE 2: TEST PROCEDURE

PAGE 3: OPERATION CYCLE



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### Test procedure to prove correct operation.

Test procedure can only be performed when "PV" value is below "SV" value by at least 20°C

This is best done when "PV" is below 300°C

\*Remember to press the "SET KEY" (LH) after each adjustment.

- 1 Start with oven gas control cabinet switch in "OFF" position
- 2 Turn control switch to "CONTROL" position
- 3 Wait while digital controller self checks (numbers flashing)
- 4 Adjust "SV" reading to 50°C above the "PV" value
- 5 Turn control switch to "ON" position
- 6 Both burners should ignite and go to HIGH FLAME setting. (working "outlet" pressure @ 1.0kPa NG - 2.75kPa LPG)
- 7 Adjust "SV" reading to 5°C below the "PV" value
- 8 Both burners should go to LOW FLAME setting. (working "outlet" pressure @ >0.5kPa NG - >1.7kPa LPG)
- 9 Adjust "SV" reading to 30°C below the "PV" value
- 10 **The "FR" burner (zone 1) should turn off. The "display burner" (zone 2) should remain on.**
- 11 Adjust "SV" reading to 50°C above the "PV" value
- 12 Both burners should return to HIGH FLAME setting. (working "outlet" pressure @ 1.0kPa NG - 2.75kPa LPG)

## Beech Ovens: 2 Burner Operation Cycle.

Most 2 burner ovens use 1 FR nozzle burner and 1 Display burner  
The Display is the display burner and is expected to be the "primary burner".

**The Display should be connected to "Zone 2" components.**

Zone 1 (Z1) incorporates, Valve 1, Pack 1, Burner 1.

Zone 2 (Z2) incorporates, Valve 2, Pack 2, Burner 2.

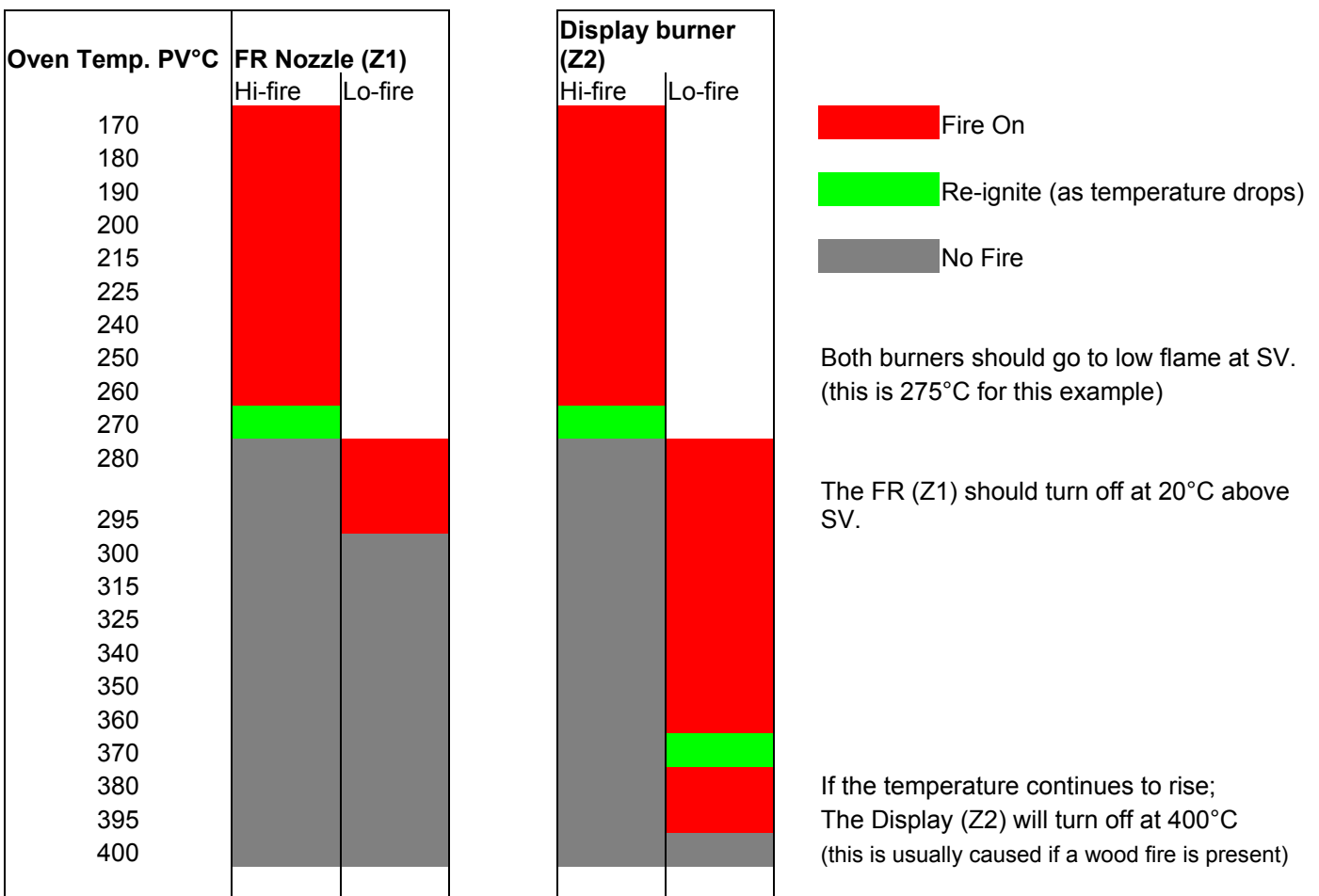
(In the control cabinet, Z2 components are to the left of Z1 components.)

(It is critical that gas valve/regulators, burners & packs (inc.leads) are connected to corresponding zone components.)

PV = Present Value; this is the top reading of the digital controller. (RKC; CB100 on cabinet door)  
(this represents the current measured temperature of the oven floor)

SV = Set Value; this is the lower reading on the digital controller.  
(this is adjustable by the operator, to the desired cooking temperature of the oven)

**Operation cycle**                      **Assume set point for oven at 275°C (SV)**



It is expected that the oven will not reach the 400°C point in normal operation.

As the burners go to low fire, when the temp reaches SV.

The oven temperature will normally start to decline.

As the PV. drops below the SV., the high fire should come back on.

In instances where the PV continues to rise, Z1 (FR nozzle) will turn off at SV+20°C

Z1 will re-ignite to Hi-fire when PV drops below SV.

In instances where the PV continues to rise further, Z2 (Display burner) will turn off at 750°F

Z2 will re-ignite to Lo-fire as the PV drops below 360°C

*\* All temperature operations may have a 5° variance.*