# Installation Supplement





## INTERLOCK OPTIONS

Venting

Options for Interlocking an Exhaust System to a Wood Stone Oven

## **ALL MODELS**



#### **WOOD STONE CORPORATION**

1801 W. Bakerview Rd. Bellingham, WA 98226 USA Toll Free 800.988.8103 Tel 360.650.1111 Fax 360.650.1166

www.woodstone-corp.com

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# Wood Stone

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Interlock Options For Wood Stone Ovens



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## WARNINGS

Interlock Options For Wood Stone Ovens



#### INTERLOCK OPTIONS FOR WOOD STONE OVENS

Wood Stone offers the following options and recommendations for interlocking your exhaust system to your oven in order to meet the requirements of the International Mechanical Code. The following examples pertain to a single oven/fan installation.

Note: It is never acceptable to wire an interlock connection directly into the Wood Stone oven Control. Doing so could cause a dangerous condition, damage the Control and will void the oven warranty.

We recommend using a qualified kitchen ventilation professional for the design and installation of your oven venting system.

If your installation involves multiple hoods, and/or interlocking to the Makeup Air System and/or Fire Suppression Systems, different interlock methods may be required.

Bear in mind that our stone hearth ovens all utilize Electronic Gas Ignition Systems. There are no standing pilots. If power is interrupted to the oven, all gas flow to the burners is stopped immediately.

Check with your local code officials for specific approval of any of these methods for your application. There may be additional requirements in your area.



## 2-POLE WALL SWITCH

Interlock Options
For Wood Stone Ovens



#### 2-POLE WALL SWITCH INTERLOCK (BY OTHERS)

**Oven type:** Gas-Fired Ovens Only

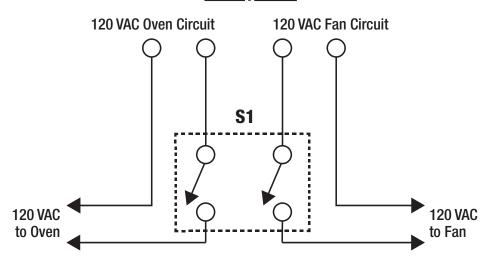
**Exhaust installation:** Direct Connect or Hood **Recommend for:** Direct Connect, Gas-Fired Ovens

Use a 2-Pole Wall Switch (provided by others) wired so that the 120 VAC power supplying the oven is connected to 1 pole of the Switch, and the 120 VAC power supplying the Exhaust Fan passes through the opposite side of the Switch.

When installed in this manner, the operator will be unable to turn on the oven unless the switch on the wall is in the ON position, sending power to the Fan as well.

This method can also be used for international 220–240 VAC models.

#### Wired by others



S1 is a Double Pole, Single Throw (DPST) switch provided by others.

#### **DETAIL**

S1 is a Double Pole—Single Throw Switch (provided by others) that interrupts incoming power to both the oven and the fan. The intent is to prevent the operation of the oven's Gas Burner in the event the Fan is shut off.

Any interruption of the power to the oven will cause the oven (including all Burners and Pilots) to shut OFF. It will be necessary to restart the oven by pressing the ON/OFF button on the Controller once power is restored.

Bellingham, WA 98226 USA



## INTERLOCK RELAY

Interlock Options For Wood Stone Ovens



#### **INTERLOCK RELAY SYSTEM**

**Oven type:** Gas-Fired Ovens Only

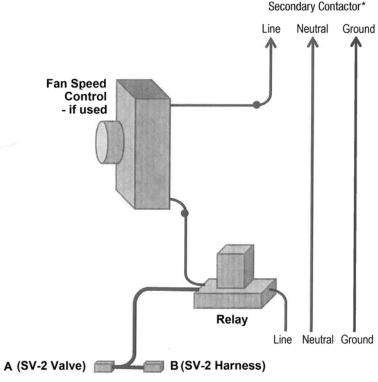
**Exhaust installation:** Direct Connect or Hood

The Interlock Relay System is an option available from Wood Stone. With the Interlock Relay option, when the oven is turned on, the interlock relay is energized allowing power to flow to the Exhaust Fan serving the oven. With this method, the Fan will turn on whenever the oven is turned ON.

#### **DETAIL**

- ☐ Wire the incoming 120 VAC to the oven transformer.
- ☐ Have your electrician mount the Fan Control Relay and Fan Speed Controller under the oven near the back of the stand and bring in the 120 VAC power for your roof mounted Exhausto fan. The line wire will pass through the relay on the black wires (terminals 5 and 9) then through the Fan Speed Controller before going out to the fan.
- ☐ Initially, turn the Fan Speed Controller fully clockwise to the LOW position.
- ☐ Unplug the Power Harness from the Gas Valve on the back of the Control Box on Bistro ovens, the rear Gas Valve (SV-2) on Mountain Series ovens, or one of the side burner Gas Valves (SV-2 or SV-3) on Fire Deck ovens.
- ☐ Plug side "A" (female) of the Interconnect Harness into the Gas Valve.
- □ Next, plug the Power Harness into the Gas Valve. Then plug the Power Harness into side "B" (male) of the Interconnect Harness.
- ☐ Turn ON the oven Control. The Relay should close and switch on the fan. When the oven is turned OFF, the Fan will switch OFF.

**Note:** In jurisdictions where the fan is required to operate when the fire suppression is activated, a parallel means of powering the fan will need be installed, for example, a second relay that is energized from the contacts on the fire system.



A and B are molex connectors for the relay harness.

\* Relay rated for 7.5 A. If fan current will exceed 7.5 A use an additional motor contractor installed after the relay to switch power to fan.

**FAX** 360.650.1166

120 VAC Fan OR



## **AUTOSTART**

Interlock Options For Wood Stone Ovens



#### **AUTOSTART INTERLOCK**

Oven type: Gas-Fired or Solid Fuel Ovens

**Exhaust installation:** Hood Only

Autostart is an option that can be added to the Wood Stone/ Gaylord Hood. It must be specified when the Hood is ordered. The Hood Fan is wired in such a way that a wall switch is used to turn the Hood Fan on.

The Autostart incorporates a hood-mounted Thermostat and Temperature Sensor. In the event that the Hood Fan has not been turned on by the operator, the Autostart will automatically energize the Exhaust Fans when the temperature at the Hood exceeds the Set Point on the Thermostat—typically 130 °F.

Since this Control functioning is based upon temperature, it is a good choice for both Gas and Solid Fuel applications.

The Autostart Control can be tied into the Fire System and/or Ventilation Control System. Refer to diagram on the following page.

Please contact us if you have any questions regarding your particular installation.

**TOLL FREE** 800.988.8103



## **AUTOSTART**

Interlock Options For Wood Stone Ovens



#### **WIRING DIAGRAM FOR DCA & LIGHT**

## GAYLORD AUTOSTART DCA NOTES

- A) INSTALLED IN HOOD
- B) PRESET TO 90°F AT FACTORY
- C) IN SOME CLIMATES AND/OR CONDITIONS, IT MAY BE NECESSARY TO ADJUST THE TEMPERATURE SETTING IN THE FIELD BY OTHERS

#### WIRING NOTES

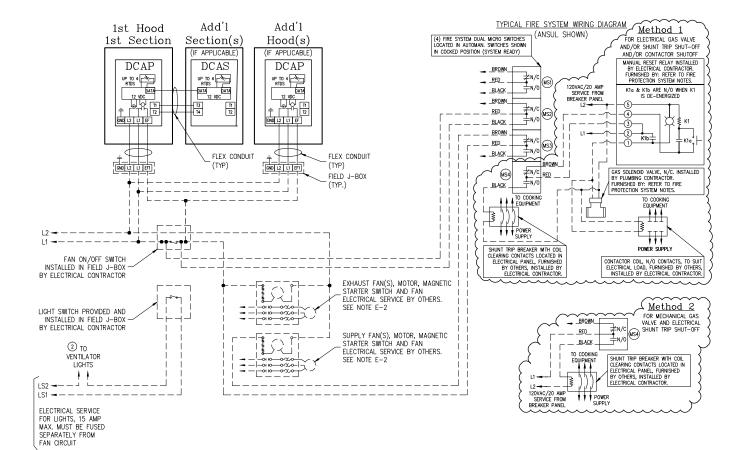
- E-1) ALL EXTERNAL CONTROL WIRING SHALL BE 12
  GAUGE MINIMUM OR AS PER APPLICABLE CODES.
- E-2) THE HOLDING COLLS WITHIN THE MAGNETIC STARTERS MUST MATCH THE SUPPLY VOLTAGE. MAGNETIC STARTERS ARE SUPPLIED BY OTHERS.

WHEN USING MULTIPLE LIGHT SWITCHES ON ONE CIRCUIT, VERIFY THAT THE LOAD DOES NOT EXCEED 15 AMPS (MAX.) IF IT DOES, USE MULTIPLE

CIRCUITS.

--- FIELD WIRING BY OTHERS

SUPPLY VOLTAGE
[x] 120V
[ ] 220V
[ ] 50Hz
[x] 60Hz





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An ongoing program of product improvement may require us to change specifications without notice.