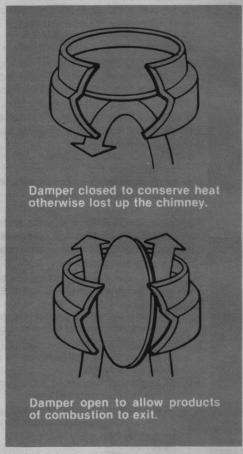
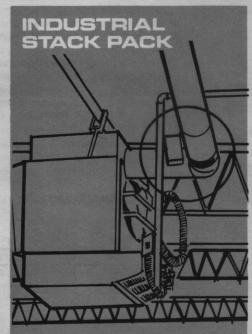
STACK PACK VENT DAMPERS

Flair manufactures and distributes worldwide, a full line of automatic flue and vent dampers for industrial, commercial and residential applications. These dampers, trade named STACK PACK are designed for use with either oil or gasfired appliances. STACK PACK will save energy by safely and automatically closing the appliance vent when the burner is off. A closed vent will effectively prevent unnecessary heat loss up the chimney.

Since their introduction in 1974, over one million STACK PACKS have been installed. High quality manufacturing and design excellence have made the STACK PACK the industry leader with a perfect safety record. STACK PACK has been chosen by over 40 major manufacturers of heating appliances as original equipment on their gas and oil fired residential and commercial products.

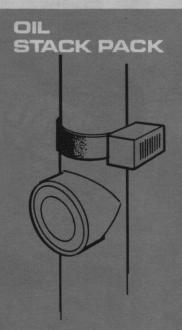


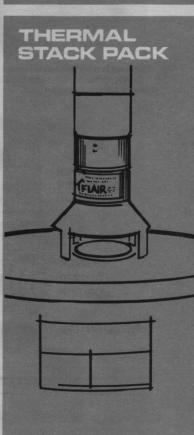






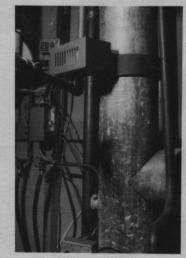






OIL STACK PACK





Typical STACK PACK residential installation.

The STACK PACK for oil-fired systems is a motorized, cast iron vent damper that has been tested and listed by Underwriters' Laboratories, Inc. STACK PACK is effective when used on single and multiple boilers, residential furnaces, water and unit heaters.

Installed directly over the barometric damper, STACK PACK will tightly "close the chimney" when the burner is off. This action will prevent the loss of heat due to the natural draft of the stack. STACK PACK provides additional fuel savings by preventing the loss of ambient air through the barometric damper.

Adding a STACK PACK to an existing system will produce an immediate and dramatic reduction in fuel usage (up to 23%*). Comfort levels are improved by the reduction of infiltration and drafts. STACK PACK will effectively extend the life of an appliance by reducing the length and number of heating cycles per season.

STACK PACK for oil-fired systems has been designed to operate at the high temperatures of the exhaust gases of an oil burning appliance. Its solid cast iron vent section will not distort.

Because STACK PACK is effective when the burner is off, it adds to the total energy savings of the complete system.STACK PACK can be used in conjunction with other energy saving devices.

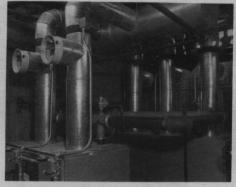
Exclusive features of the U. L. Listed oil STACK PACK:

- A solid state three minute time delay relay for the elimination of nozzle coking and post combustion odors.
- A push-to-test switch for insuring a fast and safe installation.
- Positive closure when not calling for heat insures maximum fuel savings.
- An electrical interlock for positive prevention of burner operation when the damper is in other than a fully open position.
- Damper will fail-safe in the open position on loss of power.
- Safe 24 volt control circuitry.
- Compatibility with all cad cell and stack type primary controls.
- Two color damper position indicator.

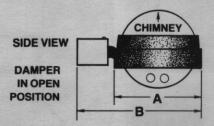
*Actual savings will vary with specific installations. Test data is on file at FLAIR. Additional information on vent damper fuel saving potential is available from the U.S. Department of Energy



Time delay relay which incorporates low voltage circuitry for the damper motor and a push-to-test switch for safe installations.

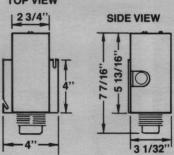


Commercial STACK PACKS on multiple boiler systems will dramatically reduce the heat loss through the stand-by units. The result is a significant savings in fuel.





STACK PACK RELAY **TOP VIEW**



RESIDENTIAL

VENT SIZE	4"	5"	6"	7"	8"	9"	10"	12"
A	4 9/16"	5 9/16"	6 9/16"	7 9/16"	8 9/16"	9 9/16"	10 9/16"	12 9/16
В	8 1/4"	9 1/4"	10 1/4"	11 1/4"	12 1/4"	13 1/4"	14 1/4"	16 1/4"

COMMERCIAL

VENT SIZE	14"	16"	18"
A	14 9/16"	16 9/16"	18 9/16"
В	18 1/4"	20 1/4"	22 1/4"

GAS STACK PACK

The STACK PACK for gas-fired systems is a motorized, cast iron vent damper. STACK PACK has been tested and design certified by the American Gas Association.

Installed directly above the draft diverter, the STACK PACK damper will tightly "close the chimney" when the burner is off. This action will prevent the loss of heat due to the natural draft of the stack. STACK PACK will also reduce the loss of ambient air through the draft diverter, providing additional fuel savings.

Because STACK PACK is effective when the burner is off, it adds to the total energy savings of the complete system. STACK PACK can be used in conjunction with other energy saving devices.

STACK PACK for gas-fired appliances has been designed to meet or exceed A.N.S.I. specifications for automatic vent dampers. Its solid cast iron vent section is built to withstand the heat and corrosive effects of the exhaust gases.

Adding a STACK PACK to an existing system will produce an immediate and dramatic reduction in fuel usage (up to 23%*). Comfort levels are improved by the reduction of infiltration and drafts. STACK PACK will effectively extend the life of an appliance by reducing the length and number of heating cycles per season.

STACK PACKS are compatible with all standing and non-standing pilot systems. Temperature sensitive safety sensors located in the vent, eliminate the need to cut into gas lines or change gas valves during installation.

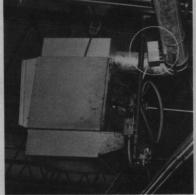
FLAIR's motorized STACK PACK has been the choice of over 40 major appliance manufacturers. STACK PACK has been supplied as original equipment with their boilers, furnaces and water heaters since 1974.

Exclusive features of the A.G.A. tested and certified STACK PACK:

- An electrical interlock to positively prevent burner operation when the damper is in other than a fully open position.
- Damper will fail-safe in the open position on loss of power.
- Safe low voltage control circuitry.
- Tight closure when not calling for heat insures maximum fuel savings. (Series 19).
- Two color damper position indicator.
- A calibrated bypass to protect against stuck open gas valves. (Series 22).
- Vent mounted temperature sensors to open the damper under high temperature conditions. (Series 22).



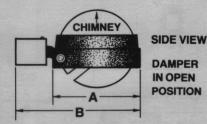
Consult factory for gas/oil applications.

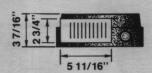


STACK PACK installed on a ceiling mounted, gas-fired heater.



Residential installation of motorized STACK PACK





DAMPER

POSITION

IN CLOSED

MILLIVOLT ADAPTER RELAY: Installation of

this unique control on a millivolt (powerpile) system will allow system (burner) operation during a power failure.

CERTIFIED

RESIDENTIAL

VENT SIZE	4"	5"	6"	7"	8"	9"	10"	12"
A	4 9/16"	5 9/16"	6 9/16"	7 9/16"	8 9/16"	9 9/16"	10 9/16"	12 9/16"
В	8 1/4"	9 1/4"	10 1/4"	11 1/4"	12 1/4"	13 1/4"	14 1/4"	16 1/4"

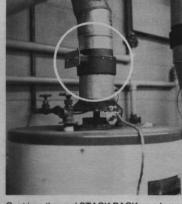
COMMERCIAL

VENT SIZE	14"	16"	18"
A	14 9/16"	16 9/16"	18 9/16"
В	18 1/4"	20 1/4"	22 1/4"

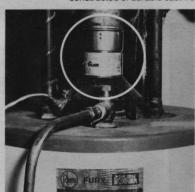
THERMAL STACK PACK



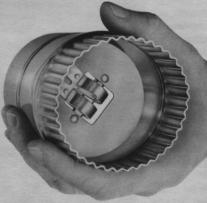
Thermal STACK PACK sizes 4 thru 8 inch are constructed of durable cast-iron.



Cast iron thermal STACK PACK on a larger domestic water heater.



Three inch stainless steel STACK PACK on a domestic water heater.



The three inch thermal STACK PACK is made of high quality stainless steel.

The thermal STACK PACK provides for the least expensive installation of a vent damper on a gas-fired appliance. This vent damper is tested and design certified by both the American and Canadian Gas Associations.

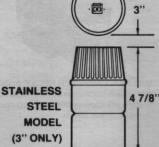
Primarily designed for use on small, residential gas water heaters, the thermal STACK PACK can be installed quickly and easily on most gas appliances. There is no wiring or need to tie in to the gas valve or gas line. Special installation tools or spill switches are not required.

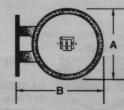
The thermal STACK PACK is operated by a pair of bi-metal coil springs. Heat created by combustion gas causes the two coil springs to contract and open the damper blade. When the demand for heat has been satisfied, the decreasing temperature allows the springs to cool and expand, returning the damper blade to the original closed position. When closed, the damper blade will reduce the loss of heat up the chimney.

Although a thermally operated vent damper will generate smaller savings than a motorized vent damper, the pay back period is shorter because of the generally lower investment required.

The three inch model is constructed of high quality stainless steel. All other models (4 thru 8 8 inch) are constructed of durable cast iron. Although not a requirement the thermal STACK PACK may be installed with an optional spill switch. The spill switch will function to shut down the gas valve in the event of chimney blockage.



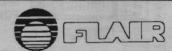




CAST IRON (4 THRU 8")



VENT	4"	5"	6"	7"	8"
A	4 9/16"	5 9/16"	6 9/16"	7 9/16"	8 9/16"
В	5 1/2"	6 1/2"	7 1/2"	8 1/2"	9 1/2"



FLAIR INTERNATIONAL CORPORATION

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