

STACK PACK SL30 SERIES VENT DAMPER

For Oil Fired Boilers, Furnaces and Water Heaters with Line Voltage Controls Utilizing a Low Voltage Damper in Combination with a Relay Transformer.

An automatic, motorized stack damper that increases the efficiency of heating systems by reducing standby losses from the heating apparatus and the conditioned air space.

BENEFITS & SPECIAL FEATURES

- Includes RP400 24/115 volt UL listed relay box with time delay and test switch.
- Includes 3 minute post-combustion purge.
- Tight closing damper vane for maximum energy savings, resulting in unsurpassed zero bypass.
- Lightweight aluminum housing. Support straps not needed.
- Precision casting prevents interference between vane and flue pipe.
- Lower friction, universal round rod design for greater durability.
- Easy to service: replaceable actuator.
- Patented dual interlock positively prevents burner operation when vane is in other than fully open position.
- Damper will always fail in the safe, open position on loss of power and will allow continued normal burner operation.
- Will start to close only when the burner is proven off and time delay has elapsed.
- Heavy duty, low temperature motor with integral clutch and lost motion feature to ensure longer life.
- Direct driven end switch for positive burner control.
- Attractive high temperature plastic cover.
- Quick connect receptacle for easy, safe and reliable attachment to included FLAIR harness.
- 725° Fahrenheit flue damper rating.
- Flow direction and two vane position indicators.
- Pre-drilled for included mounting screws.



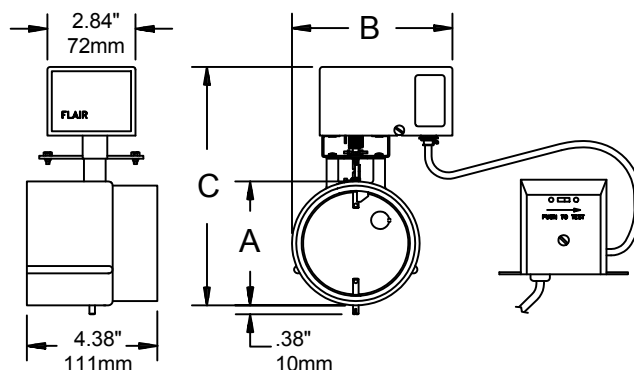
SL30 SERIES



Covered by patents nos. 4,039,123 and 4,404,613

DIMENSIONS

VENT SIZE	A		B		C	
4"	4.29"	109mm	6.20"	158mm	9.25"	235mm
5"	5.29"	134mm	6.70"	170mm	10.25"	260mm
6"	6.29"	160mm	7.20"	183mm	11.25"	286mm
7"	7.29"	185mm	7.70"	196mm	12.25"	311mm
8"	8.29"	211mm	8.20"	208mm	13.25"	337mm
9"	9.29"	236mm	8.70"	221mm	14.25"	362mm
10"	10.29"	261mm	9.20"	234mm	15.25"	387mm
12"	12.29"	312mm	10.20"	259mm	17.25"	438mm



ELECTRICAL

POWER REQUIREMENTS 115 VAC, 126-5 VAC maximum

MINIMUM WIRING REQUIREMENTS 18 gauge 90° C.

THERMOSTAT ANTICIPATION 0.1 amp.

DAMPER MOTOR

Power draw requirements 6 watts at 24 VAC when closed or closing.

Torque (running) 26 in./oz. (.182 N/M) minimum at 20.4 volts.

Timing opens in 3 seconds (0.05 minutes), closes in 8 seconds (0.1333 min.)

Time delay begins closing 3 minutes after signal to close.

Characteristics power close, spring open.

Type synchronous, hysteresis.

SWITCHING 2 precision snap acting micro switches, 5 amps resistive at 125/250 VAC.

P.C. BOARD 2 oz./ft.² one side copper, flame retardant.

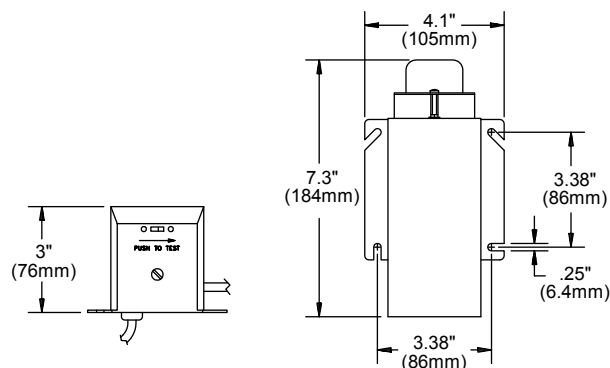
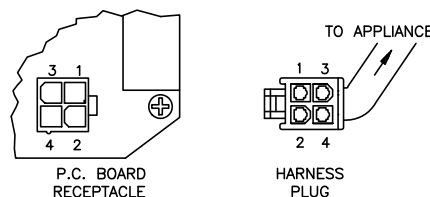
SPECIFICATIONS

PART NO.*	VENT SIZE	SHIPPING WT. (lbs.)	NO PURGE RELIEF HOLE		WITH PURGE RELIEF HOLE(S)			
			FREE AREA	D _o FACTOR (NO KNOCKOUT)	KNOCKOUT DIAMETER	KNOCKOUT AREA	FREE AREA	D _o FACTOR (KNOCKOUT)
SL 300004	4"	2.9	.0003	.0000	0.798	0.5001	0.5004	.0650
SL 300005	5"	3.2	.0003	.0000	0.798	0.5001	0.5004	.0400
SL 300006	6"	3.5	.0003	.0000	0.798	0.5001	0.5004	.0271
SL 300007	7"	3.8	.0003	.0000	0.798	0.5001	0.5004	.0196
SL 300008	8"	4.1	.0003	.0000	0.798	0.5001	0.5004	.0148
SL 300009	9"	4.4	.0003	.0000	0.798	0.5001	0.5004	.0116
SL 300010	10"	4.7	.0003	.0000	2 X 0.798	1.0002	1.0005	.0188
SL 300012	12"	5.2	.0003	.0000	2 X 0.798	1.0002	1.0005	.0129

DAMPER WIRING

SL30 Dampers incorporate an external relay box. All wiring between the damper and relay is included. The relay is then wired to the boiler by the installer.

RECEPTACLE/PLUG WIRING DIAGRAM



Custom lengths are available by special order.

WIRE	DESCRIPTION OF OPERATION
1	RP400 Relay terminal 1
2	RP400 Relay terminal 2
3	RP400 Relay terminal 3
4	Not used

REPLACEMENT PARTS & ACCESSORIES

PART NO.	DESCRIPTION
RP585000	Replacement actuator.
RP540000	Actuator cover.
RP541000	Vane knockout plug.

Flair pursues a policy of constant improvement. For this reason, all specifications are subject to change without notice.



FLAIR

FLAIR INTERNATIONAL CORPORATION

600 Old Willets Path • Hauppauge, New York 11788 • Tel: (516) 234-3600 • Fax: (516) 234-3610