

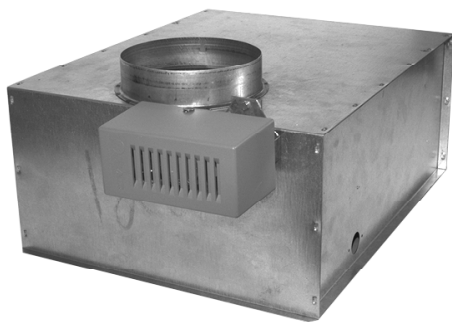
STACK PACK SL50 SERIES INTEGRAL VENT DAMPER

For Gas Fired Boilers and Furnaces with Integral Hoods.

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. A.G.A. certified to ANSI Z21.66 as a vent damper and Z21.13 as a boiler accessory.

BENEFITS & SPECIAL FEATURES

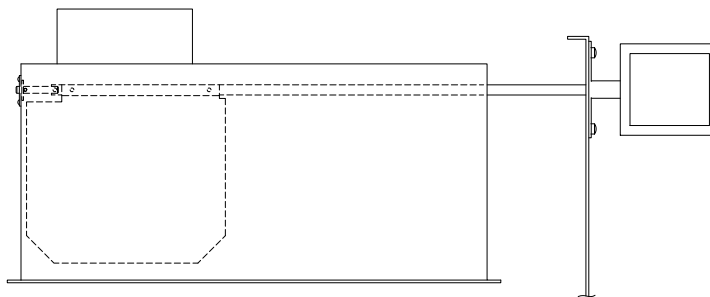
- Low profile lightweight aluminum casting to fit under standard draft hoods, or for applications with low height restriction.
- Attractive integrated "original equipment" design.
- Vane assembly supplied in kit form with all necessary hardware for OEM installations.
- Tight closing damper vane (with provision for standing pilot) for maximum energy savings, resulting in unsurpassed D_o factors.
- Lower friction, universal round rod design for greater durability.
- Easy to service: replaceable actuator.
- 24 VAC, adaptable to millivolt and 120 VAC systems.
- Patented dual interlock positively prevents burner operation when vane is in other than fully open position.
- Safe, low voltage control circuit, compatible with standing pilot or intermittent ignition devices.
- 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.
- 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 optional FLAIR harness.
- Flow direction and vane position indicators.



SL50 SERIES



Rod length, vane size and shape are custom designed to meet the application's requirements. Vane must open counter-clockwise so as not to block combustion gases. A spill switch sensor may be mounted directly to draft hood or jacket. A range of flue sizes can often be accommodated by one vane size. Depending on the design of the boiler, the damper may sit front to back or side to side. The actuator may be mounted on the hood or jacket.



ELECTRICAL

| | |
|-----------------------------------|--|
| POWER REQUIREMENTS | 24 VAC, 50/60 Hz. |
| MINIMUM WIRING REQUIREMENTS | 18 gauge, 90°C. |
| THERMOSTAT ANTICIPATION | 0.1 amp. + gas valve current. |
| DAMPER MOTOR | |
| Power draw requirement | 6 watts at 24 VAC when closed or closing. |
| Torque (running) | 20 in./oz. (.1412N/M) minimum at 20.4 volts. |
| Timing | opens in 3 seconds, closes in 8 seconds (0.1333 minutes). |
| Time delay | begins closing 4 seconds after signal to close. |
| Characteristics | power close, spring open. |
| Type | synchronous. |
| SWITCHING | 2 precision snap acting switches, 2 amps at 24 VAC, 5 amps at 125 VAC. |
| P.C. BOARD | 2 oz./ft. ² one side copper, flame retardant. |

SPECIFICATIONS

| PART NO.* | VENT SIZE | SHIPPING WT. (lbs.) | Electronic Ignition | | Standing Pilot | | | |
|-----------|-----------|---------------------|---------------------|-------------------------------------|-------------------|---------------|-----------|----------------------------------|
| | | | FREE AREA | D _o FACTOR (NO KNOCKOUT) | KNOCKOUT DIAMETER | KNOCKOUT AREA | FREE AREA | D _o FACTOR (KNOCKOUT) |
| SL 500004 | 4" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0650 |
| SL 500005 | 5" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0400 |
| SL 500006 | 6" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0271 |
| SL 500007 | 7" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0196 |
| SL 500008 | 8" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0148 |
| SL 500009 | 9" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0116 |
| SL 500010 | 10" | 1.8 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0188 |
| SL 500012 | 12" | 2.3 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0129 |

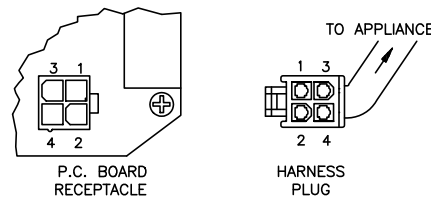
AVAILABLE PLUG-IN WIRING HARNESS

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| PART NO. | DESCRIPTION |
|----------|--|
| AH189048 | Plug on Damper end. Industry standard plug on appliance end. Plastic cable - 48" length. |
| AH189096 | Plug on Damper end. Industry standard plug on appliance end. Plastic cable - 96" length. |
| AH189148 | Plug on Damper end. Industry standard plug on appliance end. BX cable - 48" length. |
| AH189196 | Plug on Damper end. Industry standard plug on appliance end. BX cable - 96" length. |

* To include a bx cable harness with industry plug on appliance end, substitute the numbers "48" or "96" for the first "00" of the damper part number.

RECEPTACLE/PLUG WIRING DIAGRAM

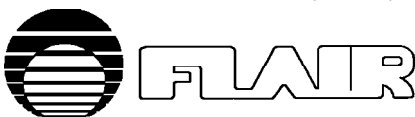


| WIRE | DESCRIPTION OF OPERATION |
|------|-----------------------------|
| 1 | 24 VAC input |
| 2 | 24 VAC input |
| 3 | To gas valve |
| 4 | To thermostat or controller |

REPLACEMENT PARTS & ACCESSORIES

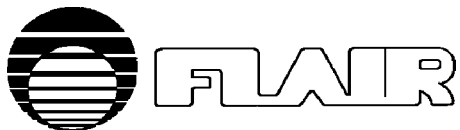
| PART NO. | DESCRIPTION |
|----------|--|
| RP545000 | Replacement actuator. |
| RP100000 | Actuator cover. |
| RP103010 | Vane knockout plug. |
| AS000405 | Vent safety switch (spot sensor). |
| AS000406 | Vent safety switch (capillary sensor). |

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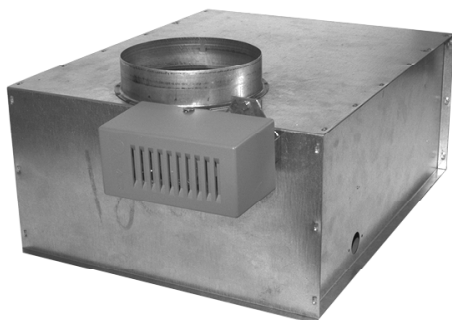
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BENEFITS & SPECIAL FEATURES

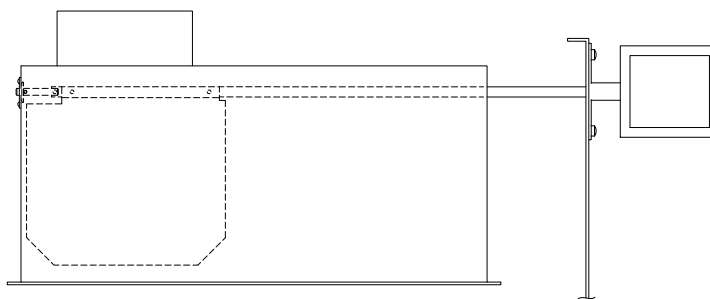
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- Attractive integrated "original equipment" design.
- Vane assembly supplied in kit form with all necessary hardware for OEM installations.
- Tight closing damper vane (with provision for standing pilot) for maximum energy savings, resulting in unsurpassed D_o factors.
- Lower friction, universal round rod design for greater durability.
- Easy to service: replaceable actuator.
- 24 VAC, adaptable to millivolt and 120 VAC systems.
- Patented dual interlock positively prevents burner operation when vane is in other than fully open position.
- Safe, low voltage control circuit, compatible with standing pilot or intermittent ignition devices.
- 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.
- 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 optional FLAIR harness.
- Flow direction and vane position indicators.



SL50 SERIES



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ELECTRICAL

| | |
|-----------------------------------|--|
| POWER REQUIREMENTS | 24 VAC, 50/60 Hz. |
| MINIMUM WIRING REQUIREMENTS | 18 gauge, 90°C. |
| THERMOSTAT ANTICIPATION | 0.1 amp. + gas valve current. |
| DAMPER MOTOR | |
| Power draw requirement | 6 watts at 24 VAC when closed or closing. |
| Torque (running) | 20 in./oz. (.1412 N/M) minimum at 20.4 volts. |
| Timing | opens in 3 seconds, closes in 8 seconds (0.1333 minutes). |
| Time delay | begins closing 4 seconds after signal to close. |
| Characteristics | power close, spring open. |
| Type | synchronous. |
| SWITCHING | 2 precision snap acting switches, 2 amps at 24 VAC, 5 amps at 125 VAC. |
| P.C. BOARD | 2 oz./ft. ² one side copper, flame retardant. |

SPECIFICATIONS

| PART NO.* | VENT SIZE | SHIPPING WT. (lbs.) | Electronic Ignition | | Standing Pilot | | | |
|-----------|-----------|---------------------|---------------------|-------------------------------------|-------------------|---------------|-----------|----------------------------------|
| | | | FREE AREA | D _o FACTOR (NO KNOCKOUT) | KNOCKOUT DIAMETER | KNOCKOUT AREA | FREE AREA | D _o FACTOR (KNOCKOUT) |
| SL 500004 | 4" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0650 |
| SL 500005 | 5" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0400 |
| SL 500006 | 6" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0271 |
| SL 500007 | 7" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0196 |
| SL 500008 | 8" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0148 |
| SL 500009 | 9" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0116 |
| SL 500010 | 10" | 1.8 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0188 |
| SL 500012 | 12" | 2.3 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0129 |

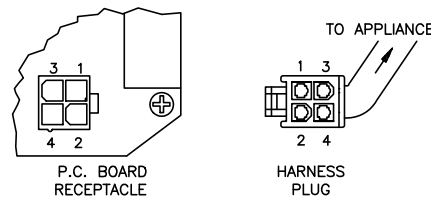
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RECEPTACLE/PLUG WIRING DIAGRAM

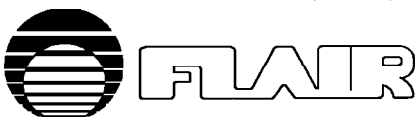


| WIRE | DESCRIPTION OF OPERATION |
|------|-----------------------------|
| 1 | 24 VAC input |
| 2 | 24 VAC input |
| 3 | To gas valve |
| 4 | To thermostat or controller |

REPLACEMENT PARTS & ACCESSORIES

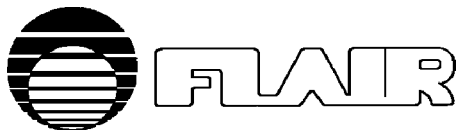
| PART NO. | DESCRIPTION |
|----------|--|
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| RP100000 | Actuator cover. |
| RP103010 | Vane knockout plug. |
| AS000405 | Vent safety switch (spot sensor). |
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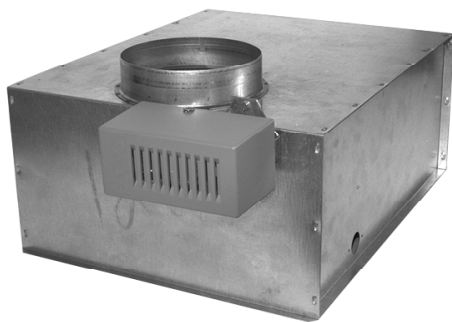


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BENEFITS & SPECIAL FEATURES

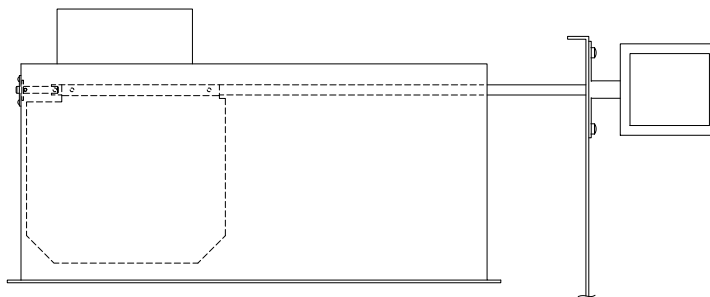


SL50 SERIES



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ELECTRICAL

| | |
|-----------------------------------|--|
| POWER REQUIREMENTS | 24 VAC, 50/60 Hz. |
| MINIMUM WIRING REQUIREMENTS | 18 gauge, 90°C. |
| THERMOSTAT ANTICIPATION | 0.1 amp. + gas valve current. |
| DAMPER MOTOR | |
| Power draw requirement | 6 watts at 24 VAC when closed or closing. |
| Torque (running) | 20 in./oz. (.1412N/M) minimum at 20.4 volts. |
| Timing | opens in 3 seconds, closes in 8 seconds (0.1333 minutes). |
| Time delay | begins closing 4 seconds after signal to close. |
| Characteristics | power close, spring open. |
| Type | synchronous. |
| SWITCHING | 2 precision snap acting switches, 2 amps at 24 VAC, 5 amps at 125 VAC. |
| P.C. BOARD | 2 oz./ft. ² one side copper, flame retardant. |

SPECIFICATIONS

| PART NO.* | VENT SIZE | SHIPPING WT. (lbs.) | Electronic Ignition | | Standing Pilot | | | |
|-----------|-----------|---------------------|---------------------|-------------------------------------|-------------------|---------------|-----------|----------------------------------|
| | | | FREE AREA | D _o FACTOR (NO KNOCKOUT) | KNOCKOUT DIAMETER | KNOCKOUT AREA | FREE AREA | D _o FACTOR (KNOCKOUT) |
| SL 500004 | 4" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0650 |
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| SL 500009 | 9" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0116 |
| SL 500010 | 10" | 1.8 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0188 |
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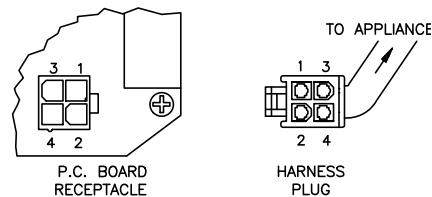
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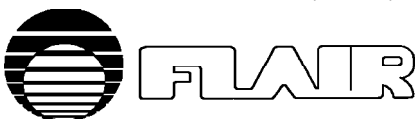


| WIRE | DESCRIPTION OF OPERATION |
|------|-----------------------------|
| 1 | 24 VAC input |
| 2 | 24 VAC input |
| 3 | To gas valve |
| 4 | To thermostat or controller |

REPLACEMENT PARTS & ACCESSORIES

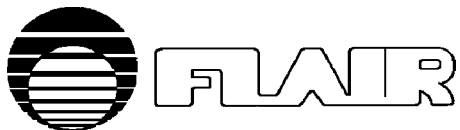
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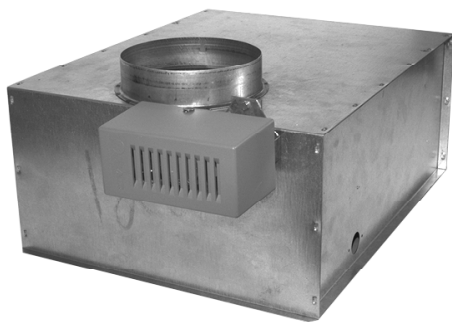


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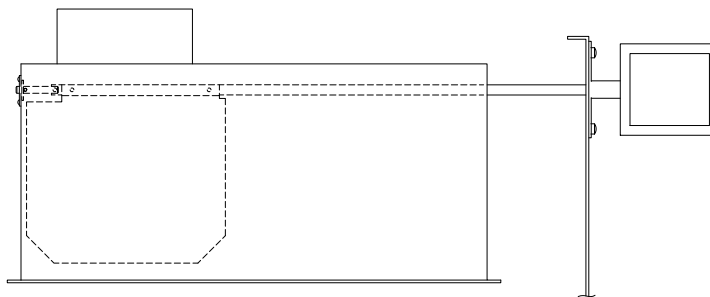


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| SL 500009 | 9" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0116 |
| SL 500010 | 10" | 1.8 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0188 |
| SL 500012 | 12" | 2.3 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0129 |

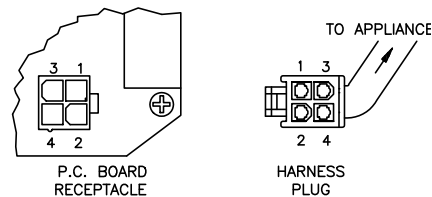
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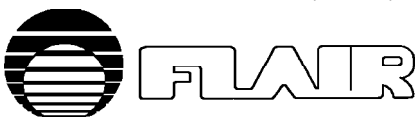


| WIRE | DESCRIPTION OF OPERATION |
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| 2 | 24 VAC input |
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| 4 | To thermostat or controller |

REPLACEMENT PARTS & ACCESSORIES

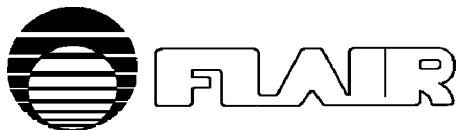
| PART NO. | DESCRIPTION |
|----------|--|
| RP545000 | Replacement actuator. |
| RP100000 | Actuator cover. |
| RP103010 | Vane knockout plug. |
| AS000405 | Vent safety switch (spot sensor). |
| AS000406 | Vent safety switch (capillary sensor). |

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



FLAIR INTERNATIONAL CORPORATION

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

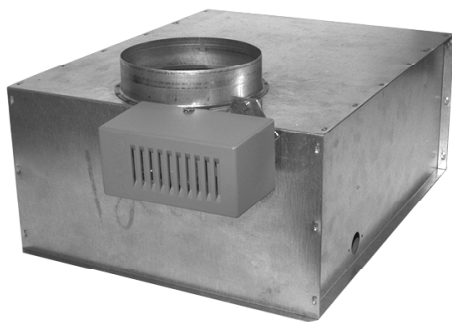


STACK PACK SL50 SERIES INTEGRAL VENT DAMPER

For Gas Fired Boilers and Furnaces with Integral Hoods.

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. A.G.A. certified to ANSI Z21.66 as a vent damper and Z21.13 as a boiler accessory.

BENEFITS & SPECIAL FEATURES

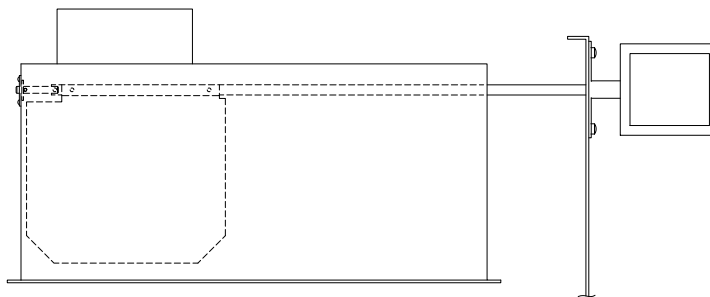


SL50 SERIES



- Low profile lightweight aluminum casting to fit under standard draft hoods, or for applications with low height restriction.
- Attractive integrated "original equipment" design.
- Vane assembly supplied in kit form with all necessary hardware for OEM installations.
- Tight closing damper vane (with provision for standing pilot) for maximum energy savings, resulting in unsurpassed D_o factors.
- Lower friction, universal round rod design for greater durability.
- Easy to service: replaceable actuator.
- 24 VAC, adaptable to millivolt and 120 VAC systems.
- Patented dual interlock positively prevents burner operation when vane is in other than fully open position.
- Safe, low voltage control circuit, compatible with standing pilot or intermittent ignition devices.
- 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.
- 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 optional FLAIR harness.
- Flow direction and vane position indicators.

Rod length, vane size and shape are custom designed to meet the application's requirements. Vane must open counter-clockwise so as not to block combustion gases. A spill switch sensor may be mounted directly to draft hood or jacket. A range of flue sizes can often be accommodated by one vane size. Depending on the design of the boiler, the damper may sit front to back or side to side. The actuator may be mounted on the hood or jacket.



ELECTRICAL

| | |
|-----------------------------------|--|
| POWER REQUIREMENTS | 24 VAC, 50/60 Hz. |
| MINIMUM WIRING REQUIREMENTS | 18 gauge, 90°C. |
| THERMOSTAT ANTICIPATION | 0.1 amp. + gas valve current. |
| DAMPER MOTOR | |
| Power draw requirement | 6 watts at 24 VAC when closed or closing. |
| Torque (running) | 20 in./oz. (.1412N/M) minimum at 20.4 volts. |
| Timing | opens in 3 seconds, closes in 8 seconds (0.1333 minutes). |
| Time delay | begins closing 4 seconds after signal to close. |
| Characteristics | power close, spring open. |
| Type | synchronous. |
| SWITCHING | 2 precision snap acting switches, 2 amps at 24 VAC, 5 amps at 125 VAC. |
| P.C. BOARD | 2 oz./ft. ² one side copper, flame retardant. |

SPECIFICATIONS

| PART NO.* | VENT SIZE | SHIPPING WT. (lbs.) | Electronic Ignition | | Standing Pilot | | | |
|-----------|-----------|---------------------|---------------------|-------------------------------------|-------------------|---------------|-----------|----------------------------------|
| | | | FREE AREA | D _o FACTOR (NO KNOCKOUT) | KNOCKOUT DIAMETER | KNOCKOUT AREA | FREE AREA | D _o FACTOR (KNOCKOUT) |
| SL 500004 | 4" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0650 |
| SL 500005 | 5" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0400 |
| SL 500006 | 6" | 1.5 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0271 |
| SL 500007 | 7" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0196 |
| SL 500008 | 8" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0148 |
| SL 500009 | 9" | 1.8 | .0000 | .0000 | 0.798 | 0.5001 | 0.5001 | .0116 |
| SL 500010 | 10" | 1.8 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0188 |
| SL 500012 | 12" | 2.3 | .0000 | .0000 | 2 X 0.798 | 1.0002 | 1.0002 | .0129 |

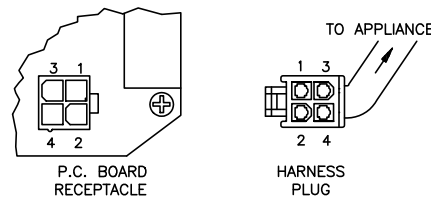
AVAILABLE PLUG-IN WIRING HARNESS

SL 50 dampers incorporate a receptacle for quick, easy and trouble free connection to the wiring harness. AH18 Series harnesses contain an industry standard plug on the appliance end. Other series are available to conform to the appliance manufacturer's special requirements. Custom lengths are available by special order. See harness specification sheet or consult Flair for details.

| PART NO. | DESCRIPTION |
|----------|--|
| AH189048 | Plug on Damper end. Industry standard plug on appliance end. Plastic cable - 48" length. |
| AH189096 | Plug on Damper end. Industry standard plug on appliance end. Plastic cable - 96" length. |
| AH189148 | Plug on Damper end. Industry standard plug on appliance end. BX cable - 48" length. |
| AH189196 | Plug on Damper end. Industry standard plug on appliance end. BX cable - 96" length. |

* To include a bx cable harness with industry plug on appliance end, substitute the numbers "48" or "96" for the first "00" of the damper part number.

RECEPTACLE/PLUG WIRING DIAGRAM

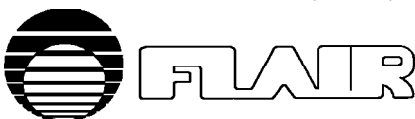


| WIRE | DESCRIPTION OF OPERATION |
|------|-----------------------------|
| 1 | 24 VAC input |
| 2 | 24 VAC input |
| 3 | To gas valve |
| 4 | To thermostat or controller |

REPLACEMENT PARTS & ACCESSORIES

| PART NO. | DESCRIPTION |
|----------|--|
| RP545000 | Replacement actuator. |
| RP100000 | Actuator cover. |
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