

Automatic

Automatic dampers are constructed with galvanized steel frames and drilled for ease of installation. Aluminum felt-edged blades open from fan pressure and close automatically when fan is off. All aluminum construction is available as an option.

Motor-Operated, End-Pivoted

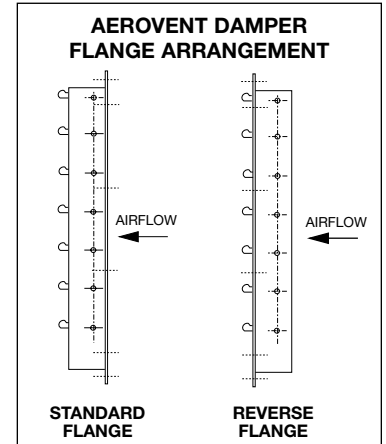
Used for exhaust only. Constructed of galvanized steel frames and aluminum felt-edged blades. Flanges are drilled for ease of installation. Motor-operated units are furnished with electric actuators. These actuators are not equipped with end switches. All aluminum construction is available as an option.

Motor-Operated, Center-Pivoted

Can be used in either supply or exhaust applications. Constructed of galvanized steel frames and blades with stainless steel jamb seals. Blades are held in place with oil-impregnated bronze bushings. Motor-operated units are supplied with electric actuators that are furnished with end switches.

Manually-Operated

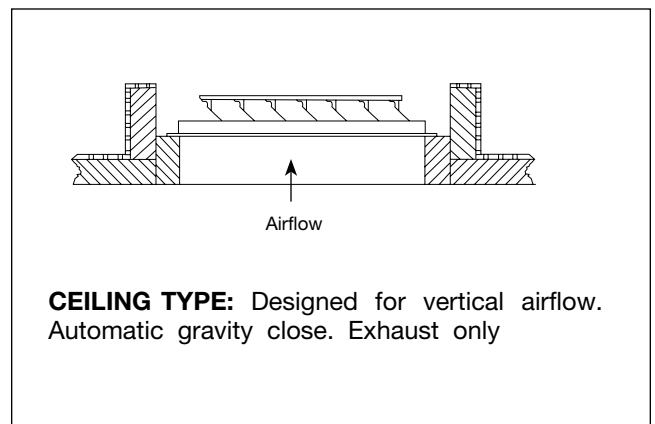
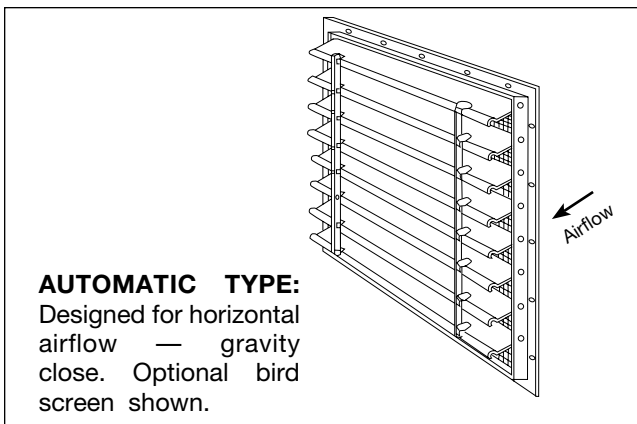
Manually-operated dampers are of the same rugged construction as the automatic damper. This damper is supplied with a six-foot pull chain connected through a pulley on the inside of the damper. Spring arrangement holds louver tightly closed when unit is not in use. All aluminum construction is available as an option.

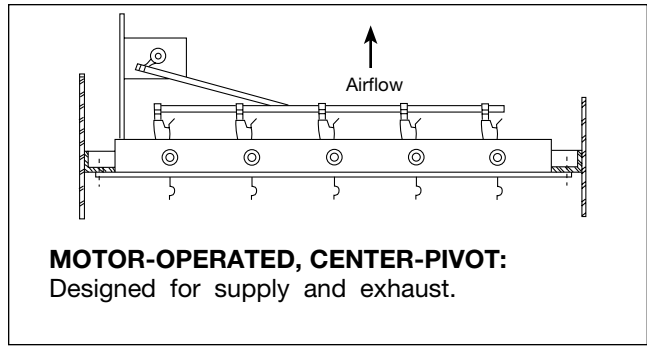
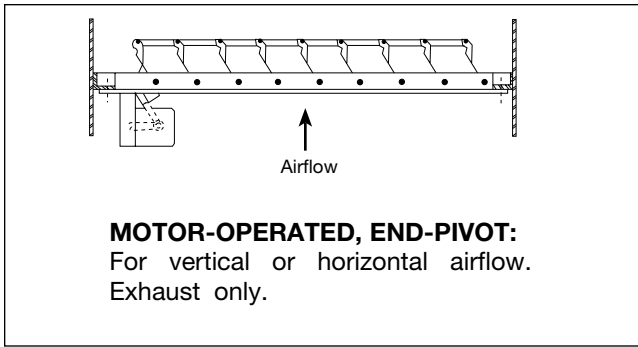


Extra Heavy-Duty

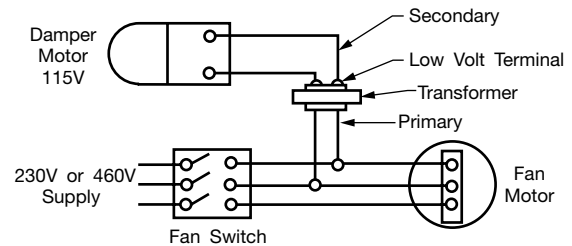
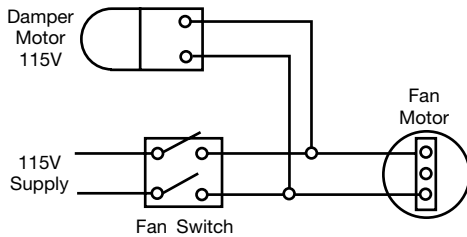
Extra heavy-duty dampers are recommended where discharge velocity exceeds 2400 FPM or where velocity is low and excessive fluttering action is a concern. All extra heavy-duty dampers have 16-gauge aluminum blades. Can be provided as automatic, manual or motorized operation.

Typical Damper Installations





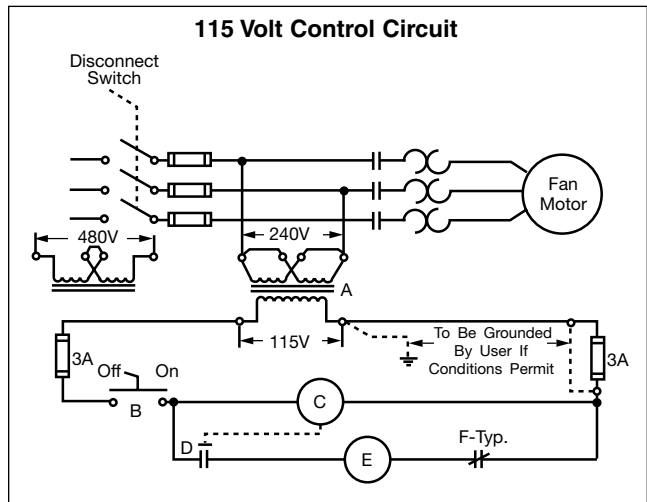
Damper Motor



End Switch For Motor-Operated Damper

Motor-operated dampers used in air handling systems should be wired to allow the damper to open before the fan is started. Below is a list of the standard damper motors mounted in the factory, along with the torque rating and number of end switches. All of these motors have built-in SPDT end switches. Motors are sized properly based on damper size.

MOTOR	TORQUE	END SWITCHES
Belimo LF120-S US	35 in.-lbs.	1
Belimo NFBUP-S	90 in.-lbs.	2
Belimo AFBUP-S	180 in.-lbs.	2
Belimo EFB120-S	270 in.-lbs.	2



- A. Control Transformer (115V Secondary)
 - B. On-Off Selector Switch
 - C. Damper Motor (115V)
 - D. Damper End Switch
 - E. Holding Coil — Fan Starter (115V)
 - F. Thermal Overload Contactors
- All damper motors operated on 115 volts.



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