

**RD20-341 ECONOMIZER
MIXING DAMPER BOX**

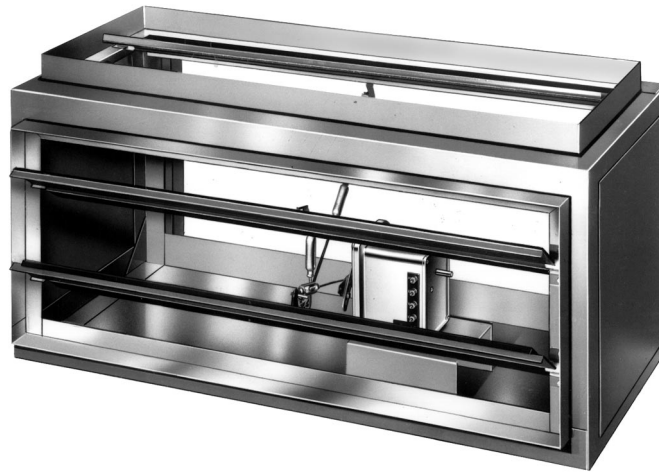
RD20-341

Bulletin #210175

June 1997

Supersedes #480033

February 1986



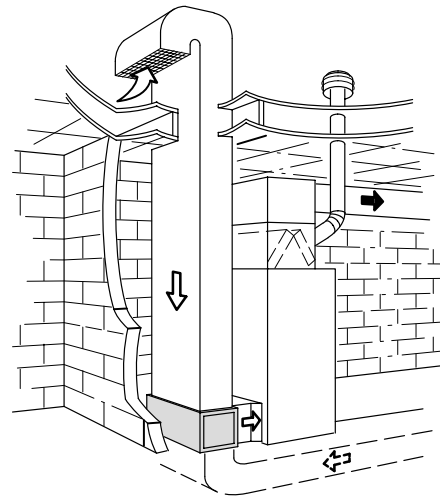
RD20-341 mixing damper boxes and control system give substantial savings on air conditioning applications which have high internal and/or solar heat gains. Compact, multi-position damper box is equipped with a modulating damper motor non-sensitive to mounting position.

Optional 3-Way Control Center M-2214 (23228) includes mixed air temperature controller, transformer and all necessary control relays along with a set of dampers and compressor monitors. Optional night setback controls are available. Thermostat (13F12) with subbase (13F16) and Manual Night Setback Switch (37658). Also available is Optional Timer Switch (17F80) to operate the system.

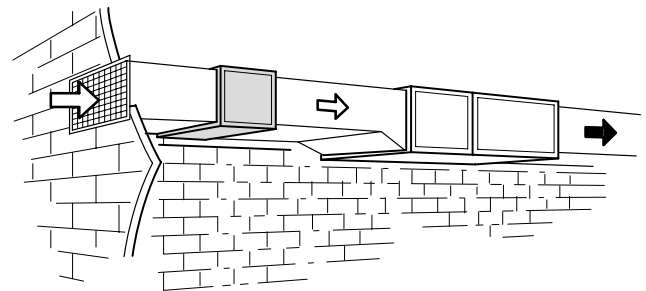
Cabinet is constructed of heavy gauge steel with baked-on enamel paint finish. Air inlet and outlet openings are flanged for easy duct connection. See dimension drawing. Large removable panels on both sides of cabinet allow complete service access.

Damper blade edges are lined with polyurethane strips for tight air seal and quiet operation. Damper blades rotate smoothly in nylon bearings. No lubrication is required. All damper boxes are shipped with damper motor and linkage factory installed and tested. Linkage is commercial quality and corrosion resistant. Installer has only to make duct and wiring connections to complete installation.

Typical Applications



Mixing Damper Box With Up-flow Furnace And Evaporator Coil.

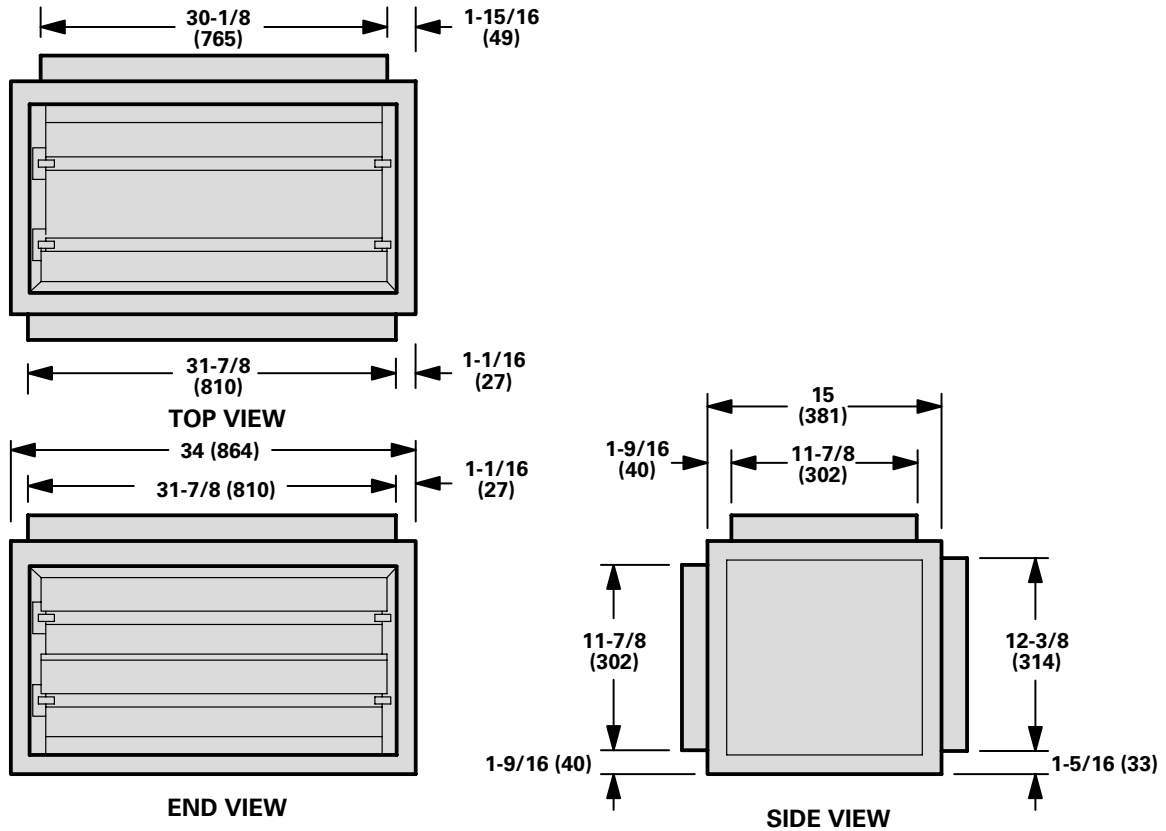


Mixing Damper Box With Horizontal Blower Coil Unit.

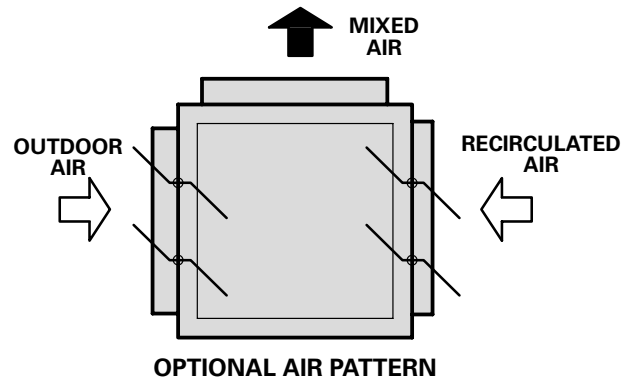
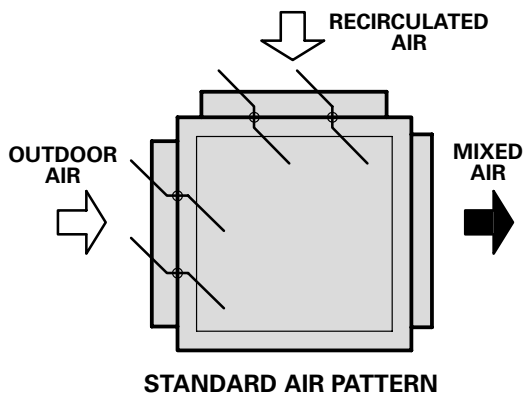
AIR RESISTANCE

Air Volume		Total Resistance	
cfm	L/s	in. w.g.	Pa
800	380	.04	10
1000	470	.06	15
1200	505	.07	17
1400	660	.09	22
1600	755	.10	25
1800	850	.13	32
2000	945	.16	40
2200	1040	.21	52
2400	1135	.26	65
2600	1225	.33	82

DIMENSIONS – inches (mm)



AIR PATTERN



NOTE – Field modification required to obtain optional air pattern.