

General Install Instructions

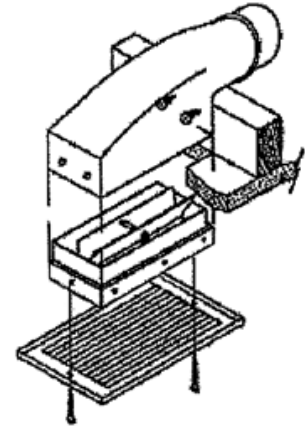
Model 2701 or 2702 (Square or Rectangular)

1. Ceiling Radiation Damper
2. Steel duct drop (less #3 plenum permitted)
3. Branch plenum or plenum boot
4. Hanger angles (2) 1-1/2 x 1-1/2 x 16 gauge
5. #6 Common nails or #8 x 1-1/4 screws
6. Mounting fasteners (Bolts, screws, rivets)
7. Steel grille, diffuser or drop ducting
8. Ceiling: gypsum wallboard, accoustical tile or accoustical panel (lay-in)
9. Joists, trusses, beams
10. Stabilizing angles (2) 1/2 x 1-1/2 x 16 ga. x 3"
11. Mounting Fasteners (Bolts, screws, rivets)

Overview

Model 2701 and 2702 Ceiling Radiation Dampers are Classified to UL 555C as 3 Hour or less heat barriers illustrated in the UL Fire Resistance Directory. Refer to the partition classification information in the Fire Resistance Directory regarding the use of these dampers in the various floor-ceiling and roof-ceiling assemblies. Ceiling dampers and the associated components (diffusers, grilles, ducts, etc) which are to be constructed of steel are installed in the ceiling to maintain the hourly ratings of these rated floor-ceiling, roof-ceiling assemblies. The combination of damper, partition and installation establish this 3 hour or less Underwriters Laboratory Fire Rating.

Shoemaker Manufacturing Model 2701 or 2702 are laboratory approved for installation in all 3 hour or less rated fire barriers listed in the UL Fire Resistance Directory, where fire barriers are shown with partition penetrations. Fire barriers without penetrations, and fire barriers not listed in the UL Fire Resistance Directory are not approved for installations and require the use of "Special" assemblies.



Installation Instructions:

1. Before installing 2701 or 2702 damper, open the blades and hook the fusible link over the link catch on the opposite blade. Bend down the link catch to secure the link in position.
2. Measure the actual spacing between the joists or other structural members allowing for a 3.00" flange at each mounting point. Cut and bend the angles on both ends to 90 degrees, or the appropriate angle required. Mounting angles are fastened to joists or other structural members with a minimum of two fasteners for each mounting point using #6 common nails or #8 x 1-1/4" long screws.
3. 2701 and 2702 damper are connected to the mounting angles with sheet metal screws, rivets, or bolts. Two connections on each angle as a minimum. Note: fastener positions must not interfere with the damper blade operations.
4. 2701 and 2702 damper are connected to the stabilizing angles with sheet metal screws, rivets, or bolts. One connection on each angle as a minimum. The stabilizing angles are to be mounted with one face of the angle flush to the ceiling material. Note: fastener positions must not interfere with the damper blade operation.
5. The installation mounting position of the closed damper blade face must not exceed 2-5/8" from the face of the rated barrier.
6. Install the ceiling damper in the duct drop using 3-16" diameter x 1/2" long steel bolts, #8 x 1/2" steel sheet metal screws or 3/16" diameter steel rivets at 6" o.c. and a minimum of (3) places. For flexible ducting; connect with draw clamps, #16 SWG wire, or cable ties as per SMACMA Standards requirements.
7. The clearance between each side of the ceiling damper and the duct drop shall be 1/8" minimum.
8. Steel/Alum grille or diffuser to be attached to the duct drop or ceiling damper using #8 x 1-1/2" long sheet metal screws.



APPLIED RESEARCH LABORATORIES (UL555C)
 CLASSIFIED CEILING RADIATION DAMPERS.
 FIRE RESISTENCE RATED 3 HOURS. FOR USE
 IN UL CLASSIFIED BUILDING MATERIALS
 RATED 3 HOURS OR LESS.

**ALL INSTALLATIONS ARE SUBJECT TO LOCAL
 AUTHORITY APPROVAL PRIOR TO ORDERING
 DAMPERS AND DAMPER INSTALLATION**