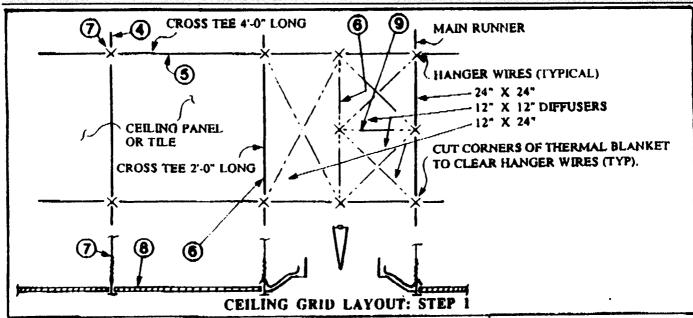
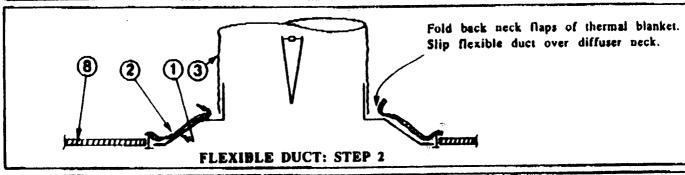
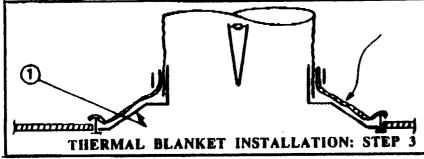


CEILING FIRE DAMPER – MODEL 420-R







Replace neck flaps of thermal blanket over duct and fasten duct to neck over blanket in accordance with duct manufacturer's installation instructions.

Do not use bolts, screws, or rivets.

- 1. Series 4000 or 4400 diffuser.
- 2. Thermal blanket.
- 3. Flexible duct.
- 4. Main T-bar runner.
- 5. 4'-0" cross T-bar.

- 6. 2'-0" cross T-bar.
- 7. Hanger wires.
- 8. Ceiling panel or tile.
- 9, 1'-0" cross T-bar. See note 9.

*CAUTION: REPLACE THERMAL BLANKET IF 'T IS DAMAGED DURING SHIPPING OR INSTALLATION.

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DEPENDABLE PRODUCTS SINCE 1955

SAFE-AIR OF ILLINOIS, INC.

Engineering and General Offices 1855 South 54th Avenue, Cicero, Illinois 60804 Phone 708-652-9100 FAX 708-652-9158



CEILING FIRE DAMPER - MODEL 420-R

NOTES:

BEFORE INSTALLING DAMPER, OPEN BLADES AND HOOK FUSIBLE LINK OVER TAB ON OPPOSITE BLADE. BEND DOWN TAB TO SECURE LINK IN POSITION.

INSTALLATION:

- 1. When installing ceiling damper in duct drop use 3/16 inch diameter by 1/2 inch long steel bolts or #8 by 1/2 inch long sheet metal screws or 3/16 inch diameter steel rivets at 6 inches o.c., 4 per damper minimum spaced evenly. The fasteners shall not interfere with the closing of the damper blades.
- 2. Support the duct with 2-16 gauge cold-rolled steel support channels, 1,1/2 inches deep with 1/2 inch flanges. Place the support channels at the bottom of the duct adjacent to both sides of the duct drop.
- 3. Use 12 swg galvanized steel wire hangers to independently support the support channels to the structural members of the floor or roof above.
- 4. Maximum size of 420R is 24 inches diameter.
- 5. Steel diffuser or grille to be attached to the duct drop or ceiling damper using #8 by 1/2" long sheet metal screws at 8 inches o.c. maximum and at least 4 screws per damper. The diffuser or grille flange face shall overlap the ceiling opening by 1 inch minimum.
- 6. The clearance between the ceiling damper and the duct drop shall be 1/8 inch maximum.
- 7 Type 420R Ceiling Dampers are for use in lieu of the hinged-blade, sheet metal damper in steel ducts with steel diffuser or grilles as specified in the "Design Information Section General" and in the individual floor and roof ceiling design(s) being used, as illustrated and described in the current UL Fire Resistance Directory. One ceiling Damper of the same size as the allowable duct outlet size may be substituted for each hinged sheet metal damper specified in the design.
- 8. Duct outlets in lay-in ceilings should be located within the field of an acoustical ceiling panel or tile. Where it is necessary to cut a main runner or cross tee, each cut end shall be supported by a vertical 12 swg hanger wire. A 1/2 inch clearance shall be maintained between the duct outlet and each cut end at main runner and cross tee. The duct outlet shall be located so that no more than one main runner or cross tee is cut when penetrating the ceiling membrane.

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