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# BROAN RDH Owner's Manual

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# MODEL RD4 RADIATION DAMPER INSTALLATION INSTRUCTIONS

For Use In 1, 2 or 3 Hour Rated Floor-Ceiling and Roof-Ceiling Designs

Horizontal Mount Only

For Use With The Following Fan Models:

## Fan Models

**Broan** HD50, HD80, 676, 684

**NuTone** HD50NT, HD80NT, 676NT, 684NT

1. Plan installation so that ceiling penetration is located within ceiling tiles or panels without necessitating cuts in any ceiling suspension main runners or cross tees. If required, a maximum of one runner or cross tee may be cut to accommodate desired damper location. Cut ends must be supported by a minimum 12 steel wire gauge (3mm) vertical hanger wire.
2. Position radiation damper on the inlet side of the fan so that the arrow in the damper will point **UP** in the finished installation. Attach the damper to the fan using #8 (M4) sheet metal screws (provided). There must be a minimum of two connections on each of two opposite sides. Care must be taken to ensure that the fasteners do not interfere with the closing of the damper curtain. For best results, use mounting holes provided.
3. Mount fan/damper assembly to the deck or ceiling structure above or adjacent to the assembly. If the assembly is hung from the structure above, a minimum 12 steel wire gauge (3mm) hanger wire must be used. There must be a minimum of two wires on each of two opposite sides. If the assembly is directly mounted to the adjacent structure, use #8 (M4) sheet metal screws or 1/4" (6mm) diameter bolts with nuts to mechanically fasten it to the structure. Position fan/damper assembly so that the inlet face of the radiation damper is flush with the finished surface of the ceiling. **Ceiling opening must be no larger than the inlet**

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2. Position fan/damper assembly so that the inlet face of the radiation damper is flush with the finished surface of the ceiling. Fasten fan/damper assembly to the building structure by driving #10 (M5) minimum sheet metal screws or #8d minimum nails through the fan mounting brackets and into the ceiling joists. There must be a minimum of two fasteners on each of two opposite sides. **Ceiling opening must be no larger than the inlet opening of the damper.**
3. New Construction

A housing mask has been provided to keep construction dust, drywall spray, paint, etc. from damaging the radiation damper of blower assembly.

a) Bend up the small tab of the mask.