

INFFUSER CEILING-MOUNTED MODELS GUIDE SPECIFICATION

The Induction Diffusers shall be DADANCO Inffusers™ or approved equal in configurations as detailed on the drawings with performance per the unit schedule.

The secondary air is to be induced (externally from the ceiling return air plenum or internally directly from the room through a portion of the grille assembly).

CASINGS

Construct the Inffuser from minimum 24 GA galvanized steel including the primary air plenum, mixing chamber, grille assembly and mounting bracket support provisions.

½ inch thick UL-181 approved thermal insulation shall be applied to the interior of the primary air plenum to prevent condensation from forming on the outside of the unit casing.

All sheet metal joints in the primary air plenum are sealed airtight.

PRIMARY AIR CONNECTION

Provide an oval primary air inlet connection at the side of the unit in the sizes as shown on the drawings.

NOZZLES

Primary air shall be discharged into the mixing chamber through induction nozzles. Provide the number and size of nozzles required to provide the primary and secondary airflows for each unit at the inlet static pressure and noise levels specified. The nozzle plate shall be painted with a flat black finish.

GRILLE ASSEMBLY

Provide a powder coat baked-on enamel painted finish on the grille assembly integral to the unit. Paint color shall be bone white PSP4186J.

The grille assembly shall be of the sizes and configurations as shown on the drawings.

CEILING

The border of the grille assembly shall be compatible for mounting in standard T-bar lay-in ceilings as shown on the plans and unit schedule.

PACKAGING AND LABELING

The units shall be packed on pallets and wrapped in plastic for protection.

Each unit and carton shall be labeled with identification tagging as required, and each unit's labeling shall also include its airflow commissioning information.

OPTIONS:

- The Inffuser shall be supplied with a grille assembly and nozzle plate, but without the primary air plenum which is provided by others.
- The entire grille assembly shall be constructed of all aluminum
- The entire unit including casing and grille assembly shall be constructed of all aluminum.
- The units shall be compatible for mounting in a (specify) ceiling design
- Grille assembly shall be a special color (specify)

ACCESSORIES

- Galvanized steel round primary air balancing dampers with manual locking quadrant for installation upstream of the unit.
- Trim kit for installation in dry wall or plaster ceilings.

COMMISSIONING

The unit shall incorporate a commissioning tube to measure the static pressure in the primary air plenum for adjustment of the primary airflow in accordance with the commissioning chart provided with each unit. The tube is to be sealed air tight to the primary air plenum and capped.

INSTALLATION

To ensure the proper operation of the Inffuser, allow for the following:

- Suspend the unit from the building structure with support wire, threaded rods, etc. attached to the mounting bracket support points fitted to the lower plate of the primary air plenum.
- Connection to the main primary air duct with straight or a gentle radius flexible duct in accordance with local codes. Make all joints airtight.

(Refer and conform to the recommendations in the manufacturer's Installation, Operation and Maintenance manual).

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