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SPECIFICATION DATA SHEET

MODEL No. 3210-BDS2

CONICAL BELLMOUTH TAKEOFF
with THERMA SEAL GASKET,
MANUAL VOLUME DAMPER with HANDLE STANDOFF,
SOLID ROD DAMPER AXIS

Date: 06/26/12 rev.

Drawn by: M.D.C.

DIMENSIONAL DATA

SIZES AVAILABLE: 6", 8", 10" AND 12"

BRANCH DUCT DIMENSION	TRUNK DUCT HOLE DIMENSION
6"	9"
8"	11"
10"	13"
12"	15"

5 3/8" LONG COLLAR.

FABRICATION DATA

COLLAR FABRICATED FROM 26 GAUGE GALVANIZED STEEL SHEET.

CONICAL BELLMOUTH BASE FABRICATED FROM .045" THICK ALUMINUM.

BRANCH DUCT DIMENSION	DAMPER BLADE GAUGE
6"	24
8"	24
10"	24
12"	24

AIR FLOW CHARACTERISTICS

BASED ON 900 F/M VELOCITY IN MAIN DUCT;
700 F/M VELOCITY IN BRANCH DUCT.
DESIGN FRICTION LOSS OF .15" W.G. PER 100 FT.
OF DUCT. PRESSURE LOSS IN EQUIVALENT FEET
OF BRANCH DUCT = 2 FT.

FEATURES

COLLAR FABRICATED WITH CONTINUOUS WELD LONGITUDINAL SEAM.

ONE PIECE ALUMINUM BELLMOUTH BASE.

3/4" WIDE FLANGE WITH THERMA SEAL GASKET AND PRE-DRILLED SCREW HOLES FOR EASY INSTALLATION.

ALL SIZES: 3/8" CONTINUOUS ROD DAMPER AXIS WITH LOCKING REGULATOR, NYLON GROMMETS INSTALLED AT THE COLLAR PENETRATIONS.

2" DAMPER HANDLE STANDOFF.

SPECIAL NOTES

RECOMMENDED INSTALLATION: DAMPER AXIS PARALLEL TO AIR FLOW.

GALVANIC REACTION IS THE CORROSION THAT CAN OCCUR WHEN TWO DISSIMILAR METALS ARE IN PERMANENT CONTACT. THE GALVANIC SERIES LISTS METALS ACCORDING TO THEIR TENDENCY TO CORRODE.

METALS CLOSE TOGETHER ON THE GALVANIC SERIES DO NOT HAVE A STRONG AFFECT ON EACH OTHER. ALUMINUM AND ZINC OCCUR NEXT TO EACH OTHER ON THE GALVANIC SERIES. ELECTROLYSIS BETWEEN THESE TWO METALS WILL NOT LIKELY TAKE PLACE UNLESS THE UNION IS IMMERSED IN SEA WATER FOR A LONG PERIOD OF TIME.

SOURCES: "METALS HANDBOOK 1985", AMERICAN SOCIETY FOR METALS, METALS PARK, OH 44073
"MATERIALS SCIENCE AND ENGINEERING", W.D. CALLISTER, JR., JOHN WILEY AND SONS, INC. 1985.

