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**SPECIFICATION DATA SHEET**

**MODEL No. 3210-BD**

**CONICAL BELLMOUTH TAKEOFF  
 WITH MANUAL VOLUME DAMPER**

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.

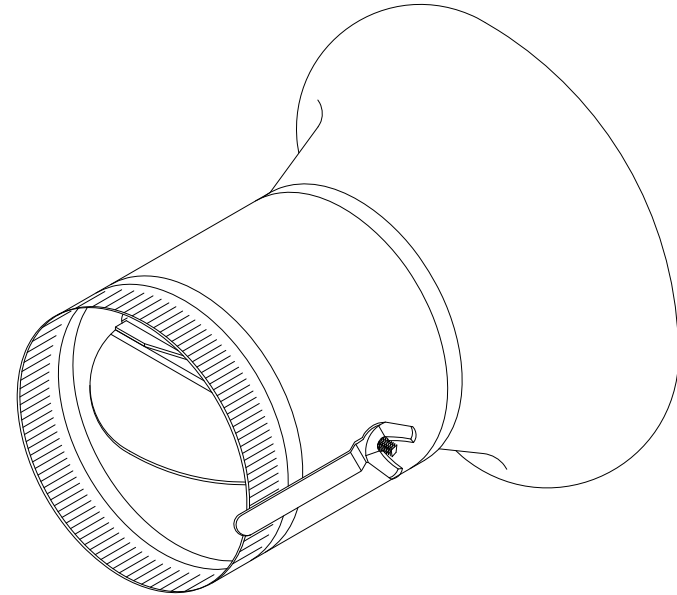
BRANCH DUCT DIMENSION	DAMPER BLADE GAUGE
6"	24
8"	24
10"	24
12"	24

**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: REINFORCED DAMPER AXIS WITH 1/4" REGULATOR, END BEARING WITH WASHER AND WING NUT.



**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.