



6390 Philips Highway  
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## SPECIFICATION DATA SHEET

## MODEL No. 3210-BDS

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

Date: 10/09/09 rev.

Drawn by: M.D.C.

### DIMENSIONAL DATA

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

| BRANCH DUCT<br>DIMENSION | TRUNK DUCT HOLE<br>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.

### 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.

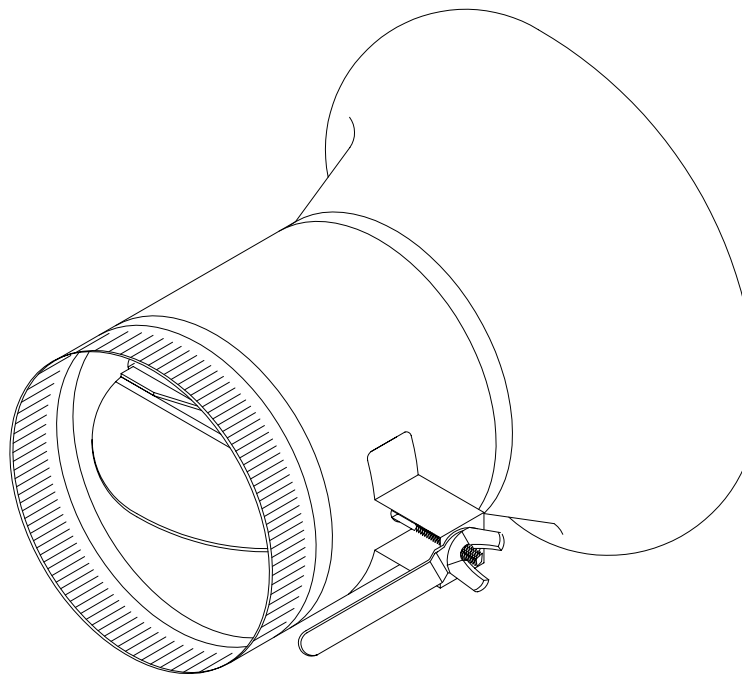
### FEATURES

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, 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.