SmartZone® DAMPERS

888-523-3265
ECOJAY.COM

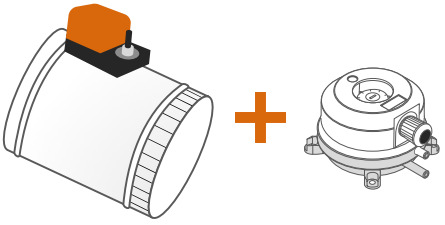
BYPASS MODULATING

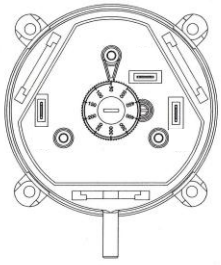
THE ECOJAY MODULATING BYPASS DAMPER INCLUDES THE STANDARD DSUP OR DSEP DAMPER WITH A PRE-WIRED STATIC PRESSURE SWITCH. MODULATING (STATIC PRESSURE CONTROLLED) BYPASS DAMPERS SHOULD BE USED WHERE RELIABILITY AND QUIET OPERATION ARE NEEDED. THIS METHOD PROVIDES THE MOST ACCURATE AND EFFICIENT VERSION OF PRESSURE RELIEF IN THE SUPPLY DUCT FOR ANY ZONING SYSTEM. ASSEMBLED BY HAND IN THE USA.

- **ACCURATE AND RELIABLE STATIC PRESSURE CONTROLLED**
- **HEAVY DUTY GALVANIZED DAMPER WITH 1 CRIMPED & 2 BEADED ENDS**
- **PRECISION CONSTRUCTION & QUALITY PARTS FOR LONG-LIFE & QUIET OPERATION**
- **FULL-DIAMETER POLY GASKET FOR LOW LEAKAGE SEAL**
- **ALL METAL SHAFT WITH NYLON BUSHINGS**

D	B	U	M	D
Damper	Bypass	roUnd	Modulat	Diameter

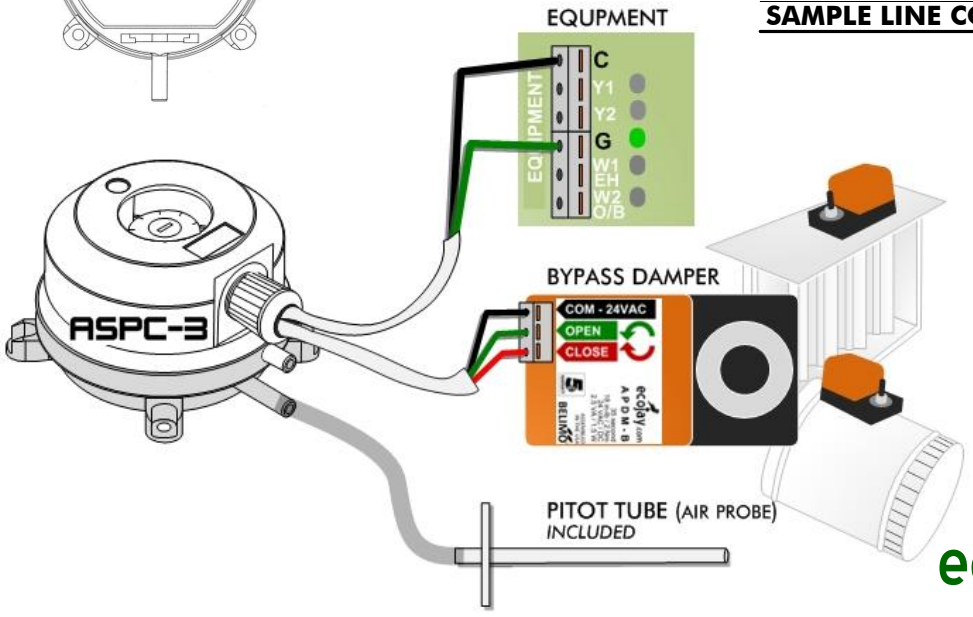
PART #	D
DBUM08	8″
DBUM10	10″
DBUM12	12″
DBUM14	14″
DBUM16	16″
DBUM18	18″

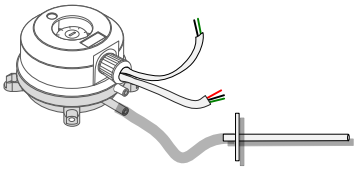




SPECIFICATIONS

SET POINT RANGE	**0.08" w.c. to 0.80" w.c. (20 to 200 Pa)**
PRESSURE CONNECTIONS	**P1 (+) High Pressure P2 (-) Low Pressure**
SWITCHING DIFFERENTIAL	**5Pa (0.02" w.c.)**
MAXIMUM PRESSURE	**10KPa**
OPERATING TEMPERATURE	**-4 °F to +140 °F**
ELECTRICAL RATING	**1.0 A MAX**
ELECTRICAL CONNECTIONS	**1 NO – Normally Open 2 NC – Normally Closed 3 COM – Power Supply**
CONDUIT CONNECTION	**½″ NPT Threaded**
SAMPLE LINE CONNECTIONS	**¼″ ID Tubing**





ASPC-3

INCLUDES PITOT TUBE, AIR PRESSURE TUBING, & WIRES PRE-CONNECTED TO THE ASPC-3.
CAN BE PURCHASED SEPARATELY AND USED WITH ANY 3-WIRE DAMPER TO CREATE A BYPASS OR PRESSURE RELIEF SYSTEM.

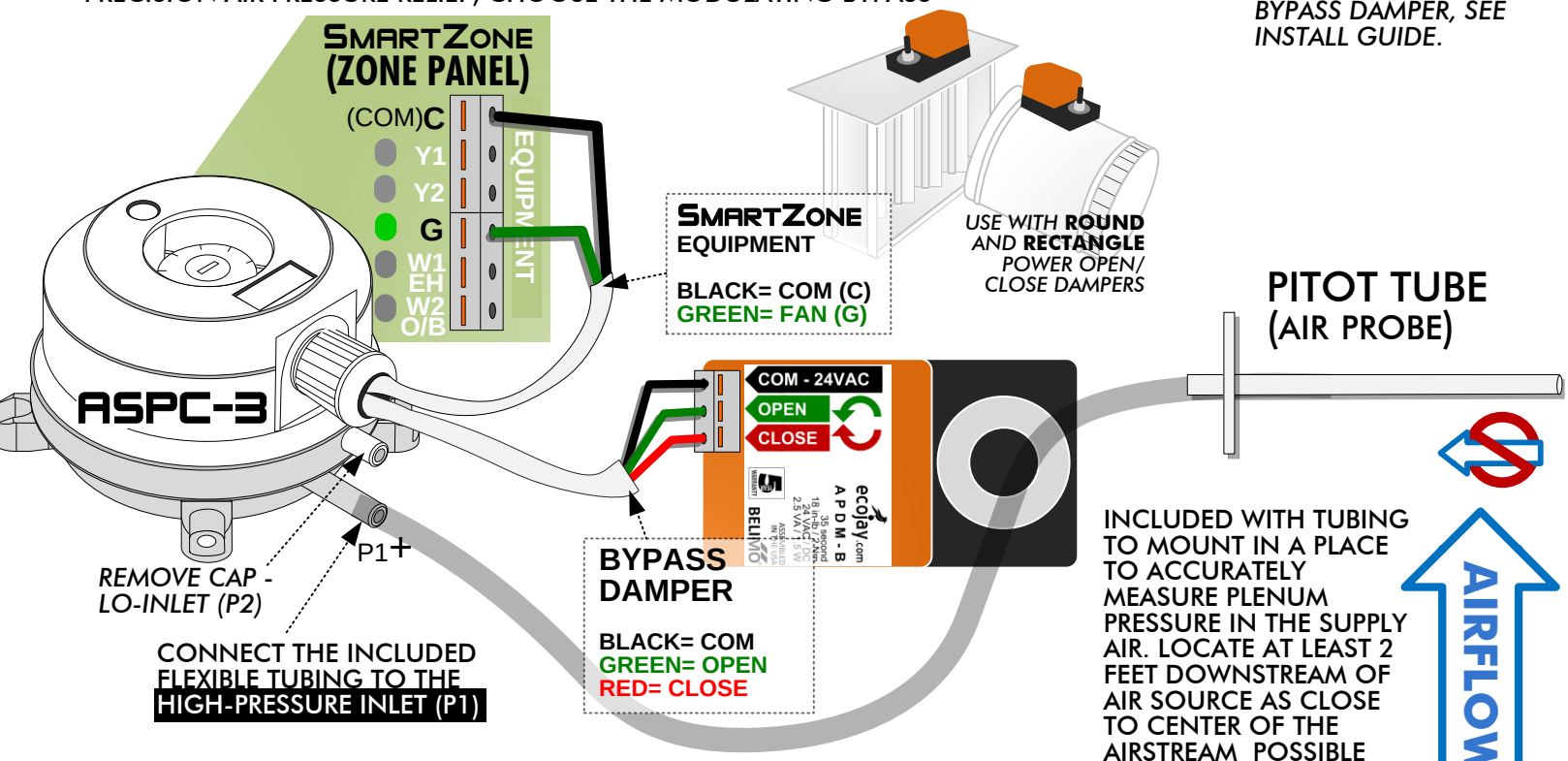
ecojay

5 YEAR ECOJAY PRODUCTS LIMITED WARRANTY

MODULATING BYPASS

STATIC PRESSURE CONTROLLED BYPASS FOR SUPERIOR AIR NOISE REDUCTION AND PRECISION AIR PRESSURE RELIEF, CHOOSE THE MODULATING BYPASS

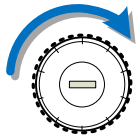
FOR INFORMATION ABOUT SIZING THE BYPASS DAMPER, SEE INSTALL GUIDE.



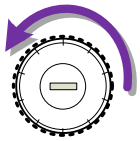
CONFIGURATION

THE GOAL IS TO CALIBRATE THE BYPASS DAMPER TO OPEN IF SUPPLY DAMPERS CLOSE AND THE PLENUM PRESSURE INCREASES. FOLLOW THE STEPS BELOW.

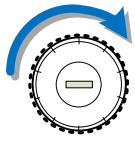
1 MAKE A CALL FROM ALL ZONES FOR COOLING SO ALL ZONE DAMPERS ARE FULLY OPEN AND THE EQUIPMENT FAN (BLOWER) IS RUNNING AT THE HIGHEST SPEED.

2 

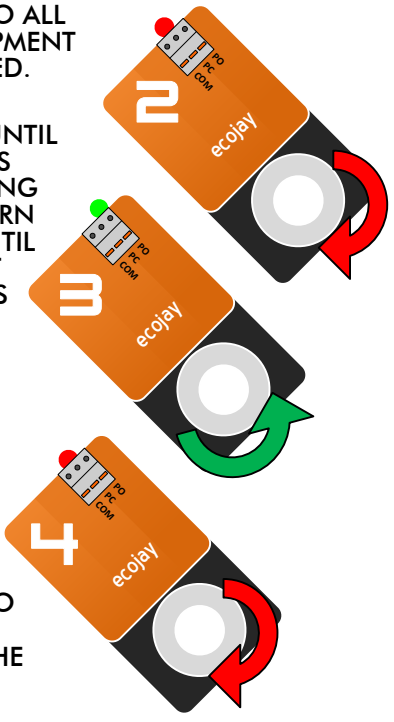
TURN KNOB CLOCKWISE SLOWLY UNTIL THE BYPASS DAMPER MOTOR STARTS CLOSING IF DAMPER STARTS OPENING AGAIN BEFORE FULLY CLOSING, TURN THE KNOB CLOCKWISE SLOWLY UNTIL IT STARTS CLOSING AGAIN. REPEAT THIS PROCESS UNTIL THE DAMPER IS FULLY CLOSED.
(RED LED WILL BE ON)*

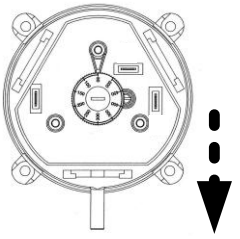
3 

VERY SLOWLY TURN THE KNOB COUNTER-CLOCKWISE UNTIL THE BYPASS DAMPER MOTOR STARTS TO OPEN. *(RED LED WILL GO OFF & GREEN ON*)*

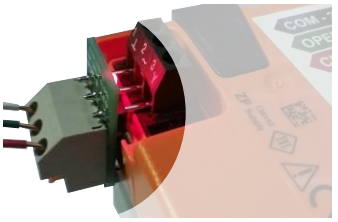
4 

AS SOON AS THE MOTOR STARTS TO RUN OPEN, TURN THE KNOB BACK CLOCKWISE JUST ENOUGH THAT THE DAMPER MOTOR STAYS CLOSED.
(RED LED WILL BE ON)*





*MOUNT ASPC WITH THE SAMPLE LINE CONNECTIONS IN THE "**DOWN**" POSITION. USE SCREWS LEAST TWO OF THE FOUR MOUNTING HOLES TO SECURE TO A SOLID SURFACE.*



***NOTE:** LEDS WILL ONLY BE VISIBLE IF **LED & SCREWLESS** TERMINAL ADD-ON IS INSTALLED ON BYPASS DAMPER ACTUATOR

TESTING

MAKE A CALL FOR COOLING FROM THE SMALLEST ZONE ONLY. WHEN THE FAN IS AT THE HIGHEST SPEED THE BYPASS DAMPER SHOULD MODULATE TO AN OPEN POSITION WITHIN 1 TO 2 MINUTES & AIR NOISE SHOULD BE ACCEPTABLY LOW.