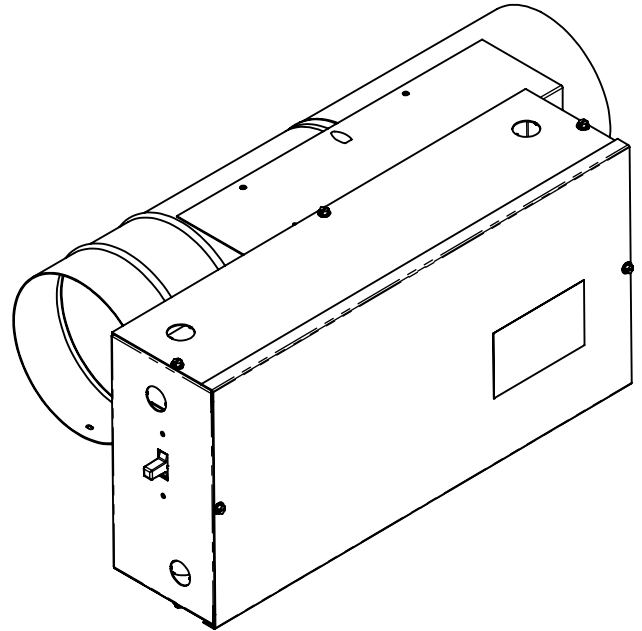
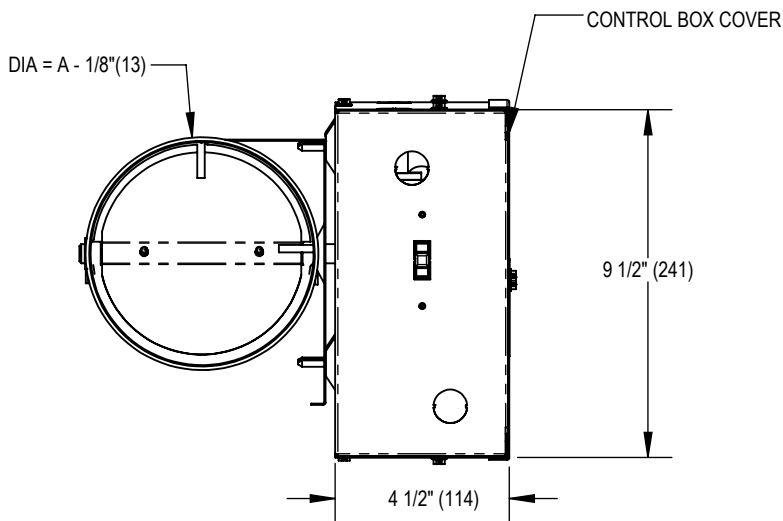


PIM PRESSURE INDEPENDENCE MODULE ROUND DISK DAMPER

UNIT SIZE	FLOW RANGE	A	L
6	0-450 CFM (0-212 L/s)	6" (152)	20 3/8" (518)
8	0-800 CFM (0-378 L/s)	8" (203)	
10	0-1350 CFM (0-637 L/s)	10" (254)	20" 7/8 (530)
12	0-2100 CFM (0-919 L/s)	12" (305)	23 1/8" (587)
14	0-3000 CFM (0-1416 L/s)	14" (356)	24 1/8" (613)
16	0-4000 CFM (0-1888 L/s)	16" (406)	26 1/8" (664)



STANDARD CONSTRUCTION:

- 22 GA. ZINC COATED STEEL HOUSING. MECHANICALLY SEALED AND GASKETED, LEAK RESISTANT CONSTRUCTION
- CONTROLS ASSEMBLY WILL BE SUPPLIED AS ILLUSTRATED ON RIGHT HAND SIDE UNLESS SPECIFIED OTHERWISE
- STATIC PRESSURE PROBE FACTORY PROVIDED FOR FIELD INSTALLATION
- PRESSURE INDEPENDENT ELECTRIC CONTROLLER & ACTUATOR FACTORY MOUNTED

OPTIONS:

CONTROL CONFIGURATION

- ☐ BYPASS CONTROL CONFIGURATION
- ☐ ZONE CONTROL CONFIGURATION

TRANSFORMER

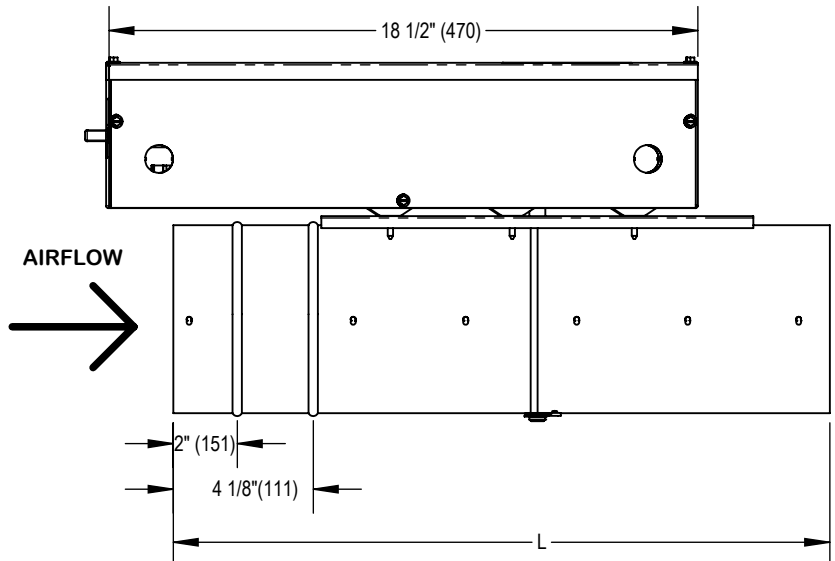
- ☐ NO TRANSFORMER
- ☐ 24-24V DDC ISOLATION TRANSFORMER
- ☐ 115-24V STEP DOWN TRANSFORMER
- ☐ 230-24V STEP DOWN TRANSFORMER

NETWORK

- ☐ BACnet INTERFACE

NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

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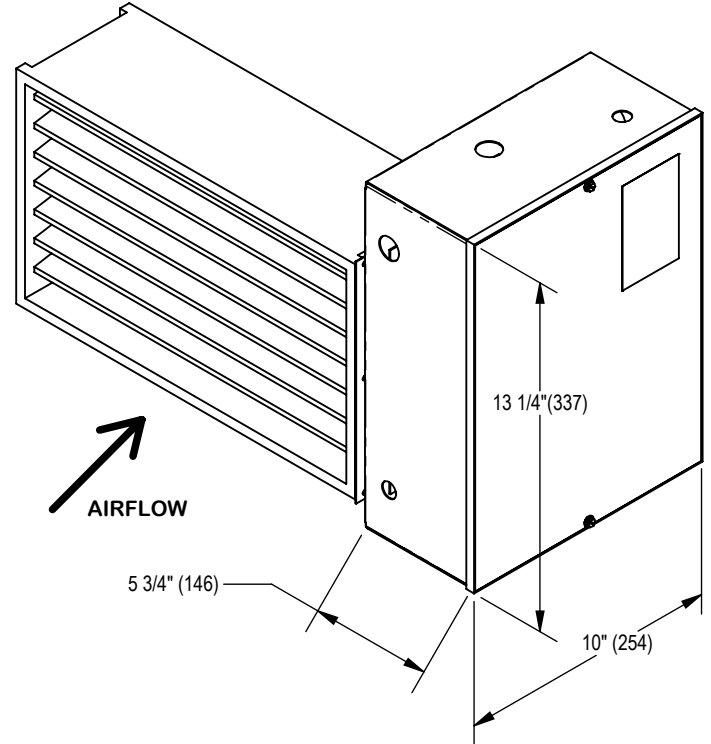
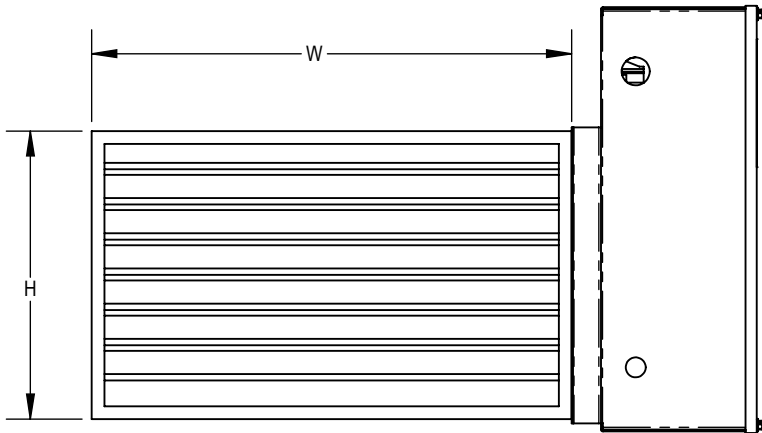
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**PIM PRESSURE
INDEPENDENCE
MODULE**

PIM PRESSURE INDEPENDENCE MODULE SQUARE BLADED DAMPER

DAMPER DIMENSIONS			
W		H	
MIN	MAX	MIN	MAX
6"(152)	48"(1219)	6"(152)	36"(914)



STANDARD CONSTRUCTION:

- FRAME: ROLL-FORMED 20 GA. GALV STEEL HAT SECTION WITH STAKED CORNERS WITH INTERGRAL BRACING
- BLADES: 16 GA. GALV STEEL ROLL FORMED, TRIPLE VEE PROFILE
- STATIC PRESSURE PROBE FACTORY PROVIDED FOR FIELD INSTALLATION
- PRESSURE INDEPENDENT ELECTRIC CONTROLLER & ACTUATOR FACTORY MOUNTED

OPTIONS:

CONTROL CONFIGURATION

- ☐ BYPASS CONTROL CONFIGURATION
- ☐ ZONE CONTROL CONFIGURATION

TRANSFORMER

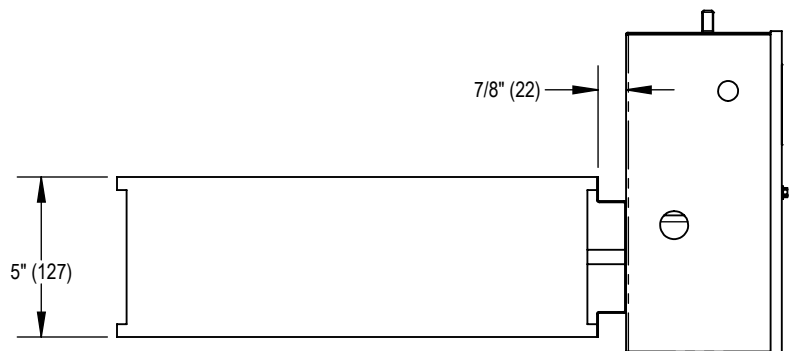
- ☐ NO TRANSFORMER
- ☐ 24-24V DDC ISOLATION TRANSFORMER
- ☐ 115-24V STEP DOWN TRANSFORMER
- ☐ 230-24V STEP DOWN TRANSFORMER

NETWORK

- ☐ BACnet INTERFACE

BLADE SEALS

- ☐ STANDARD CONSTRUCTION
- ☐ LOW LEAKAGE BLADE SEALS



NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

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SHEET 2 OF 5 REV D

**PIM PRESSURE
INDEPENDENCE
MODULE**

PIM PRESSURE INDEPENDENCE MODULE PIC CONTROLLER

OPTIONS:

CONTROL CONFIGURATION

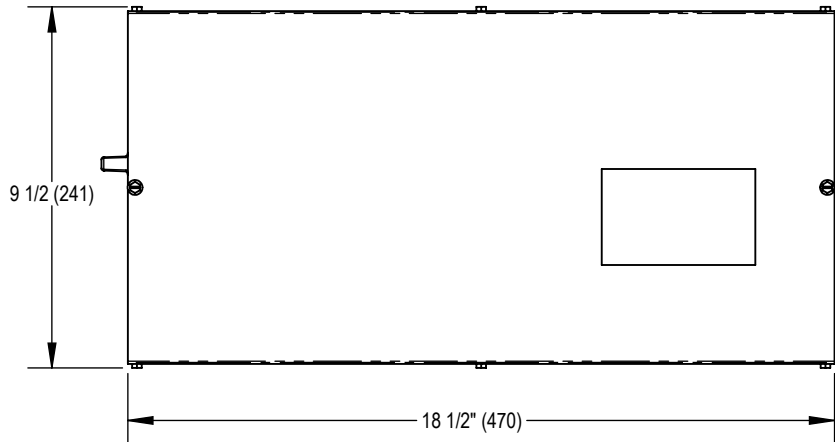
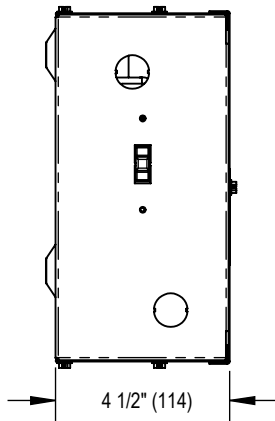
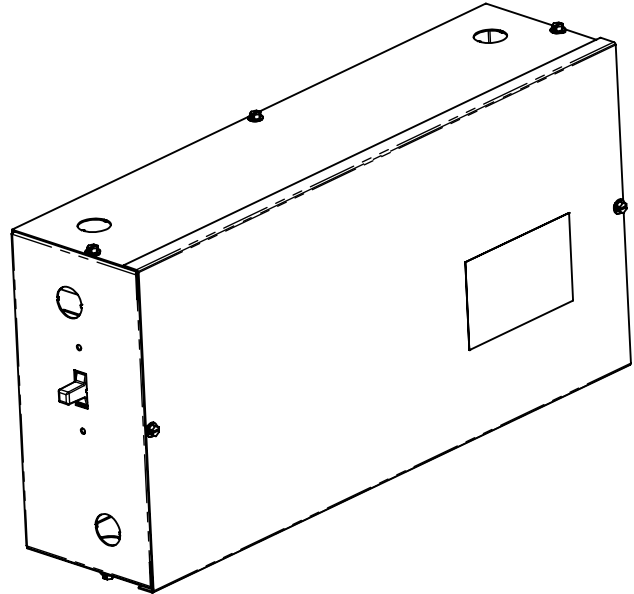
- ☐ BYPASS CONTROL CONFIGURATION
- ☐ ZONE CONTROL CONFIGURATION

TRANSFORMER

- ☐ NO TRANSFORMER
- ☐ 24-24V DDC ISOLATION TRANSFORMER
- ☐ 115-24V STEP DOWN TRANSFORMER
- ☐ 230-24V STEP DOWN TRANSFORMER

NETWORK

- ☐ BACnet INTERFACE



NOTE - METRIC DIMENSIONS HAVE BEEN ROUNDED TO THE NEAREST MILLIMETER

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SHEET 3 OF 5 **REV D**

**PIM PRESSURE
INDEPENDENCE
MODULE**

NOTE 6:
USE RJ45 JACKS FOR BACNET CONNECTION, OR 3 POSITION TERMINAL BLOCK FOR 3-WIRE CONNECTION (+, -, NETCOM) NETCOM MUST BE WIRED.

NOTE 5:
A CAT-5 BACNET NETWORK CABLE IS PROVIDED BY PRICE WITH EACH CONTROLLER ORDERED WITH THE BACNET OPTION

NOTE 4:
STATIC PRESSURE SETPOINT IS FACTORY CALIBRATED TO 0.15" W.C.
IT CAN BE CHANGED IN THE FIELD USING EITHER:
1. BACnet FRONT END
2. PRICE USB **LINKER** INTERFACE
3. **LCD-SETUP** TOOL (OR ANY PIC/PRODIGY LCD T-STAT)

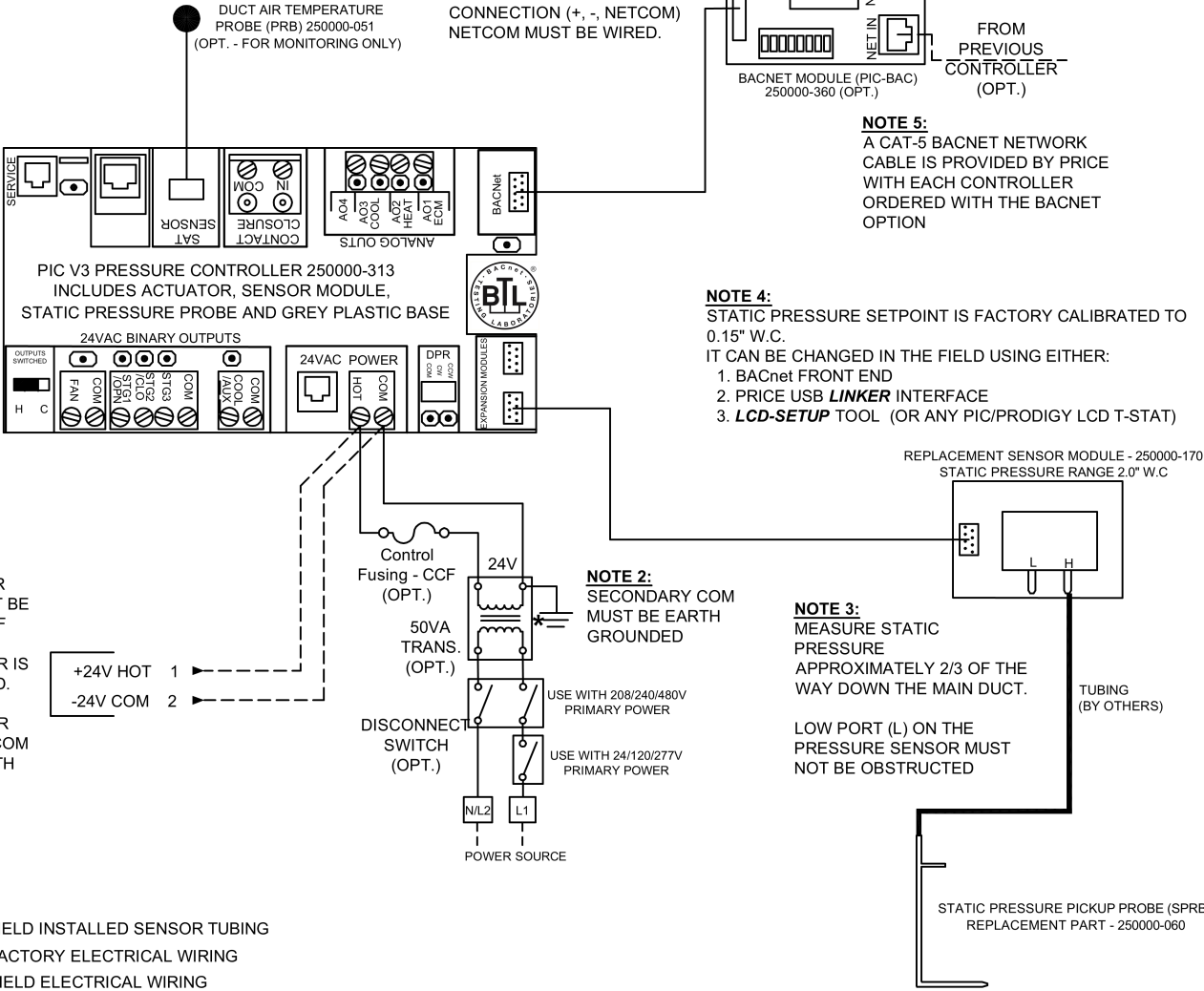
NOTE 3:
MEASURE STATIC PRESSURE APPROXIMATELY 2/3 OF THE WAY DOWN THE MAIN DUCT.

LOW PORT (L) ON THE PRESSURE SENSOR MUST NOT BE OBSTRUCTED

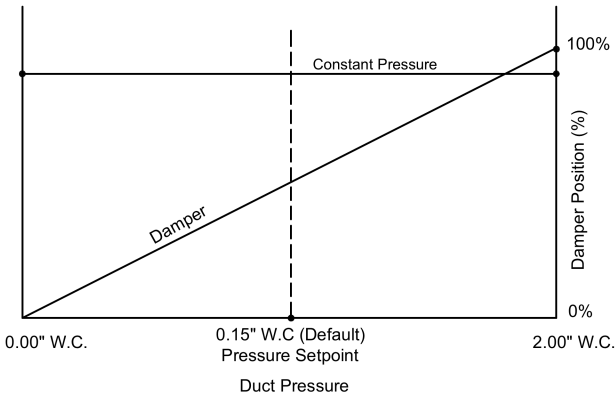
NOTE 1:
24 VAC POWER SOURCE MUST BE FIELD WIRED IF OPTIONAL TRANSFORMER IS NOT PROVIDED.

TRANSFORMER SECONDARY COM MUST BE EARTH GROUNDED

NOTE 2:
SECONDARY COM MUST BE EARTH GROUNDED



CONTROL GRAPH



Sequence of Operation -- Constant Pressure, Bypass.
On startup, the controller will calibrate to the fully-open position for 2 minutes.

On an increase in duct static pressure the controller/actuator will modulate the VAV damper open to increase the amount of air bypassed.
On a decrease in duct static pressure the controller/actuator will modulate the VAV damper closed to reduce the amount of air bypassed.
Duct static pressure is held constant.

Upon detection of air handler shutdown (Zero duct pressure with bypass damper fully closed), the controller/actuator will place the damper at the pre-selected setback position (default: 50 % open)

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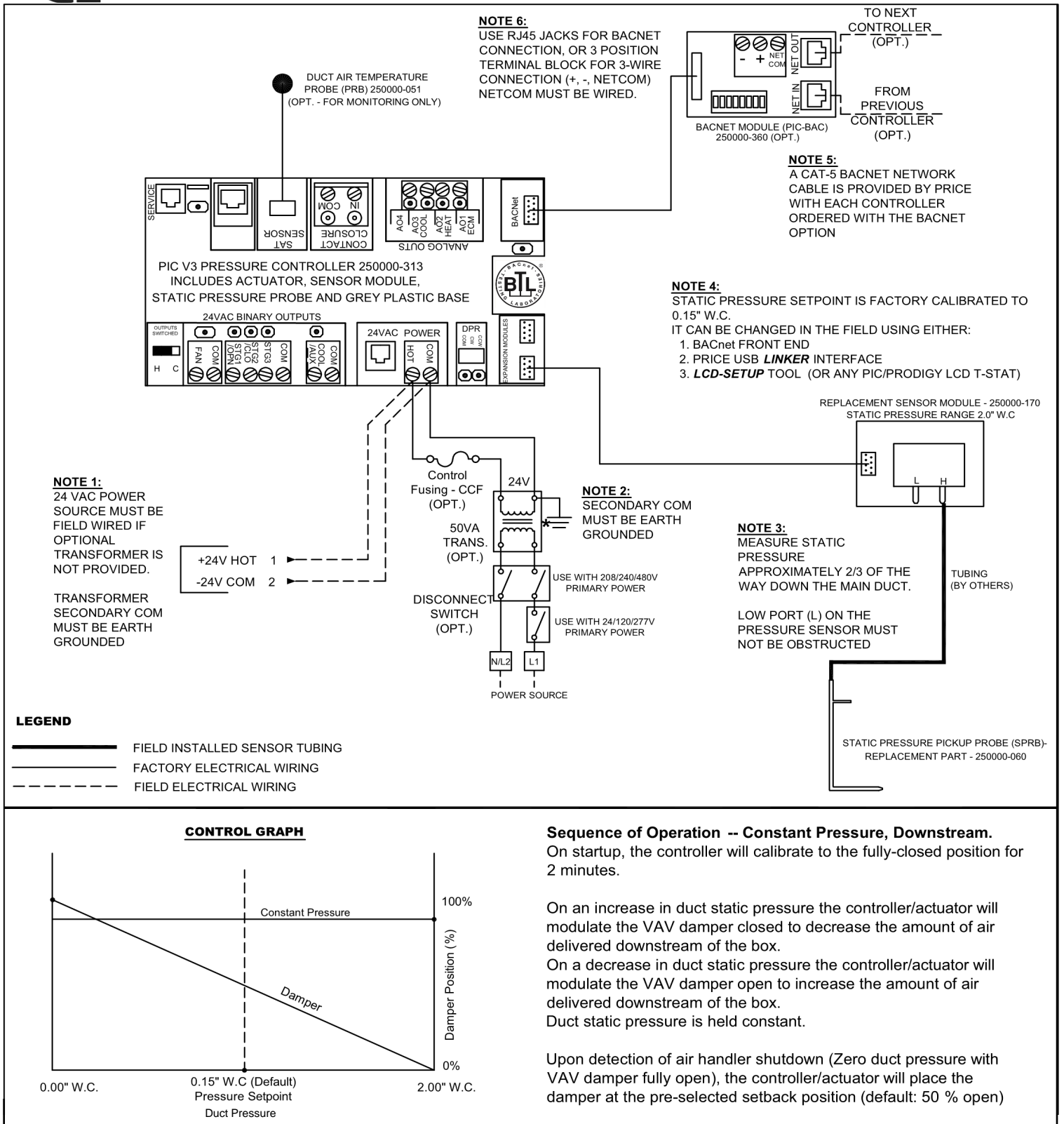
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**PIM PRESSURE
INDEPENDENCE
MODULE**

SHEET 4 OF 5 REV D



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