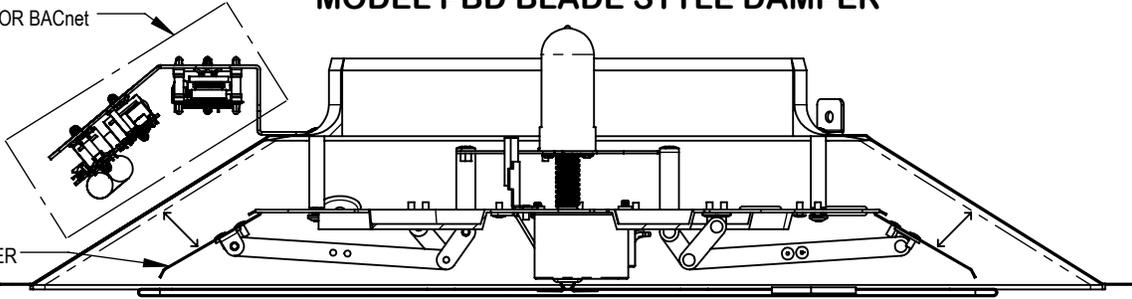


ELECTRONIC FIELD CONNECTIONS, OPTIONAL TRANSFORMER OR BACnet

**PRODIGY DIGITAL ELECTRIC VAV DIFFUSER
MODEL PBD BLADE STYLE DAMPER**

BLADE TYPE VOLUME DAMPER



DIFFUSER TYPE:

- MASTER - INCLUDES ONBOARD CONTROLS, MAY ALSO CONTROL AND DISTRIBUTE POWER UP TO 5 DRONES FROM EACH MASTER
- DRONE - REPLICATES THE DAMPER POSITION OF THE MASTER. INCLUDES NETC35 PLENUM RATED 35 FT. (10.7m) CABLE WITH RJ-12 CONNECTORS (DRONE BOARD NOT SHOWN)

DIFFUSER SIZE:

- 24" x 24"
- 600mm x 600mm

INLET SIZE(D):

- 6" (152mm) 10" (254mm)
- 8" (203mm) 12" (305mm)

SUPPLY POWER:

- 24 VAC INPUT POWER, 3.0 VA PER UNIT (MASTER OR DRONE)
- N.AMERICA (TYP 60Hz)
- EUROPE, AUSTRALIA, ASIA (TYP 50 Hz)

FINISH:

- B12 - STANDARD WHITE POWDER COAT (OPTIONAL FINISH OPTIONS BELOW)
- B13 B15 B17 B-25 A-WHA A-SIA A-MYA A-BL SPL

OPTIONAL TRANSFORMER (MASTER ONLY):

- TR115 - 115/24, 20 VA TRANSFORMER
- TR240 - 240/24, 20 VA TRANSFORMER
- TR277 - 277/24, 20 VA TRANSFORMER

(FOR A LARGER TRANSFORMER OPTION SEE MODEL PPM UP TO 15 UNITS)

NETWORK OPTION (MASTER ONLY):

- BACnet SYSTEM INTERFACE (MS/TP) - INCLUDES NETC35 PLENUM RATED 35 FT. (10.7m) NETWORK CONNECTION CABLE (RJ45)

OPTIONAL INSULATION:

- AFI - INSULATED BACKPAN, 1/2" (13) FIBERGLASS WITH FOIL/SCRIM VAPOUR BARRIER - AVAILABLE WITH STYLE 3 FRAME ONLY

OPTIONAL HANGER BRACKETS:

- HB - HANGER BRACKETS

OPTIONAL PRESSURE RELIF

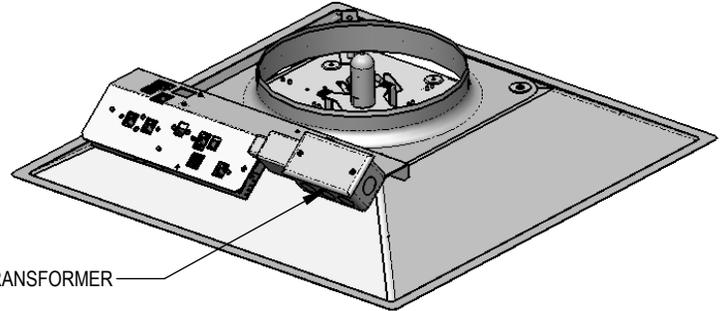
- PRC - PRESSURE RELIEF COLLAR (SHIPPED LOOSE)

OPTIONAL HEAT OUTPUT SIGNAL: (12VA MAX. MASTER UNIT ONLY)

- PDM - PULSE DELAY MODULATION
- PWM - PULSE WIDTH MODULATION
- BIN - BINARY ON/OFF

MATERIAL:

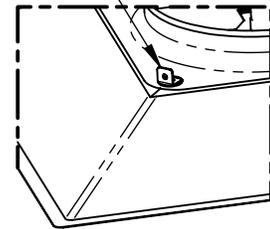
STEEL CONSTRUCTION



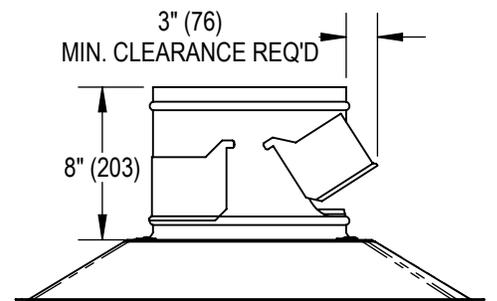
OPTIONAL TRANSFORMER

OPTIONAL HANGER BRACKET
2 OPPOSITE CORNERS

HB OPTION



PRESSURE RELIEF COLLAR OPTION

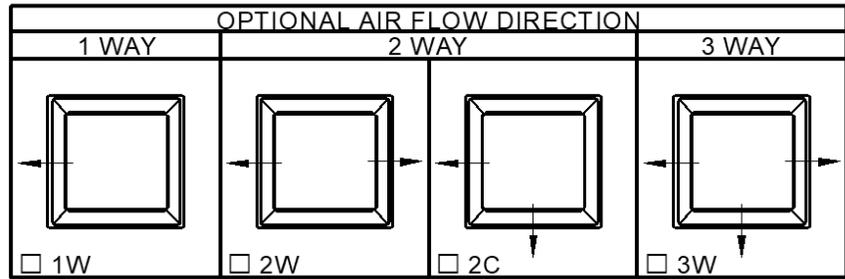
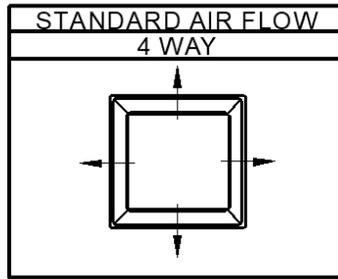


NOTES:

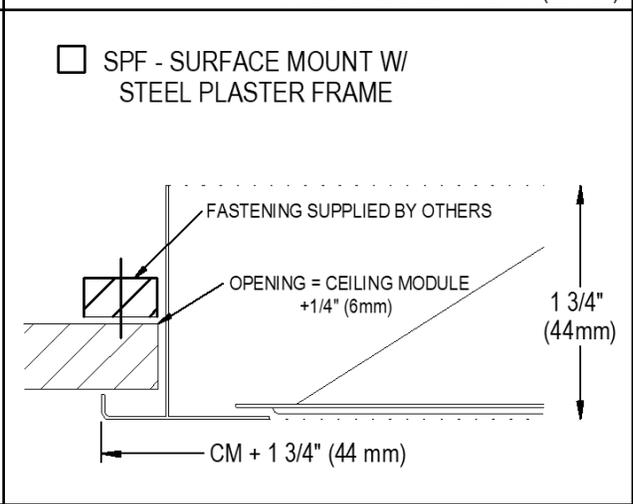
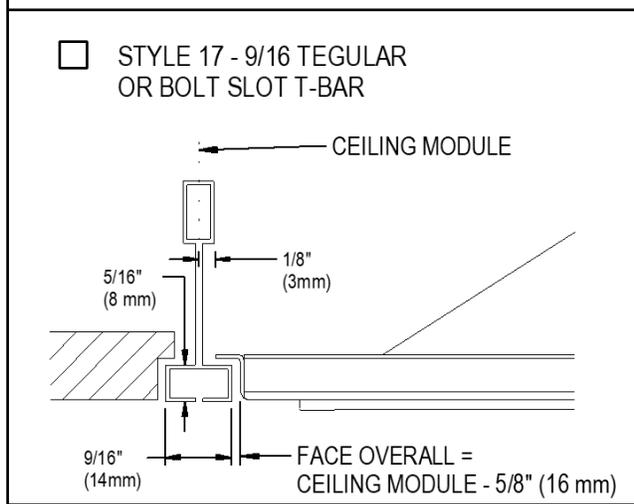
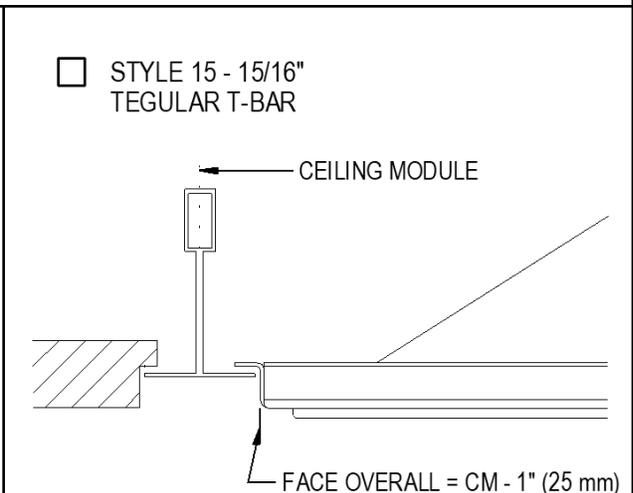
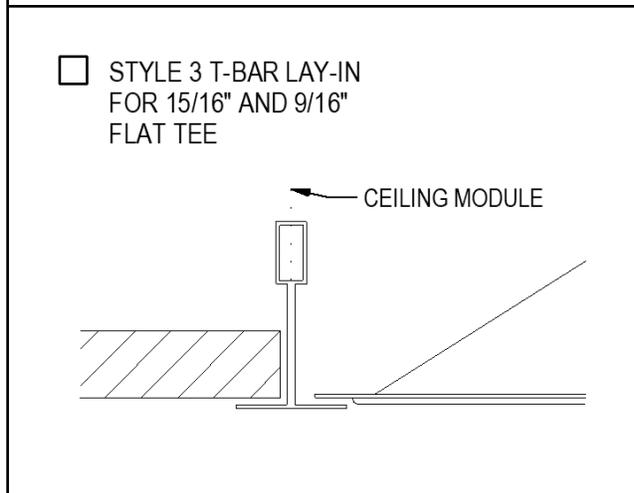
- FOR MATCHING RETURN USE MODEL SPD
- PLAQUE IS 1/4"(6mm) MAX. BELOW CEILING
- FACTORY TOLERANCE ±1/16" (2mm)

ALL METRIC DIMENSIONS [] ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:		price [®]	
ENGINEER:		APPROVED BY: PS	PBD PRODIGY BLADE TYPE DIFFUSER
CUSTOMER:		DRAWING NO: 276748	
SUBMITTAL DATE:	SPEC. SYMBOL:	DATE DRAWN: 2/26/2024	



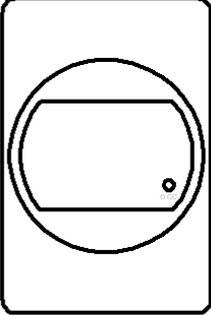
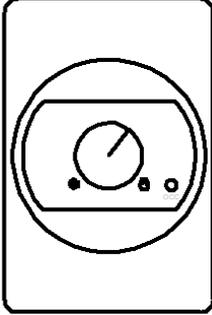
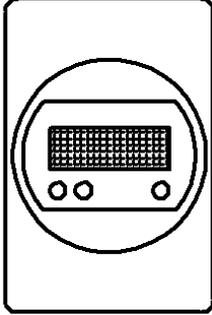
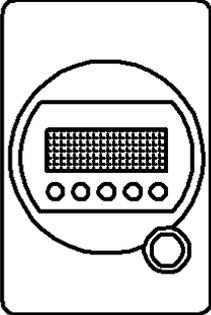
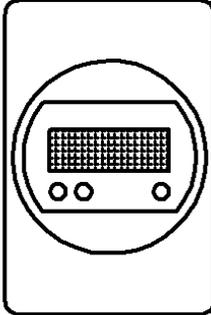
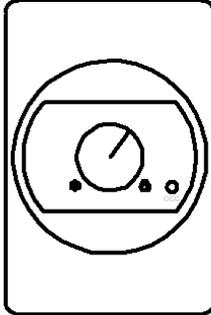
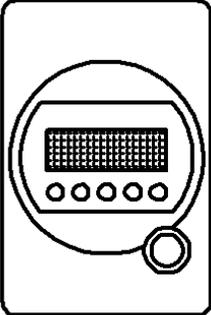
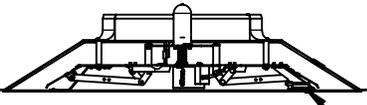
BORDER OPTION



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ENGINEER:		
CUSTOMER:		APPROVED BY: PS
SUBMITTAL DATE:		DRAWING NO: 276748
SPEC. SYMBOL:		DATE DRAWN: 2/26/2024
		PBD PRODIGY BLADE TYPE DIFFUSER

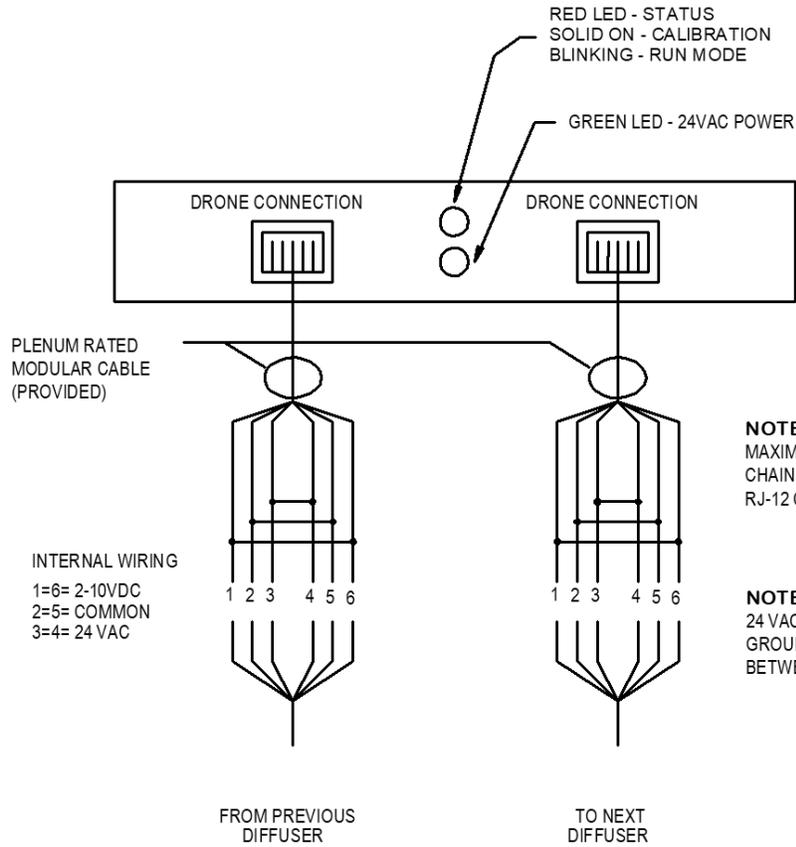
SETPOINT ADJUSTMENT OPTIONS (MASTER ONLY):

 <p><input type="checkbox"/> *SENS - THERMOSTAT SENSOR WITH BLANK FACE (SEE NOTES)</p>	 <p><input type="checkbox"/> *DIAL - THERMOSTAT WITH DIAL SETPOINT ADJUSTMENT (SEE NOTES)</p>	 <p><input type="checkbox"/> LCD THERMOSTAT (°F) <input type="checkbox"/> LCD THERMOSTAT (°C)</p>
 <p><input type="checkbox"/> MOT - LCD THERMOSTAT WITH MOTION SENSOR (°F) <input type="checkbox"/> MOT - LCD THERMOSTAT WITH MOTION SENSOR (°C)</p>	 <p>WIRELESS BASE RECEIVER</p> <p><input type="checkbox"/> WL - WIRELESS THERMOSTAT WITH DIAL SETPOINT ADJUSTMENT (SEE NOTES)</p>	 <p>WIRELESS REMOTE DIAL THERMOSTAT</p>
 <p><input type="checkbox"/> CO2H - LCD THERMOSTAT CO AND HUMIDITY SENSORS (°F) <input type="checkbox"/> CO2H - LCD THERMOSTAT CO AND HUMIDITY SENSORS (°C)</p>	 <p>INTERNAL BUILT IN ROOM TEMPERATURE THERMOSTAT</p> <p><input type="checkbox"/> *BI - DIFFUSER BUILT IN HIDDEN ROOM TEMPERATURE THERMOSTAT</p> <p>BI OPTION NOTES:</p> <ul style="list-style-type: none"> • INCLUDES BACNET CONTROL MODULE • BACNET NETWORK NEEDED TO CONTROL DIFFUSER SETPOINT AND DIFFUSER CONFIGURATION SETTINGS • WALL MOUNTED T-STAT NOT INCLUDED (IF WALL T-STAT IS NEEDED LATER IT WILL BE EASY TO ADD WITH QUICK CONENCTION AND AUTOMATIC DIFFUSER CONFIGURATION WHEN T-STAT IS PLUGGED IN) 	<p>NOTES:</p> <ul style="list-style-type: none"> • * PLEASE ENSURE AT LEAST ONE LCD-SET (STAND-ALONE SETUP BALANCING TOOL) IS ORDERED FOR THE PROJECT WHEN USING THE SENS, DIAL OR BI. • THERMOSTATS THAT ARE WALL MOUNTED HAVE RJ-45 CONNECTION ON BACK SIDE OF THERMOSTATS FOR EASE OF INSTALLATION • WALL MOUNTED THERMOSTATS INCLUDE ONE NETC35 - 35 FT. (10.7m) PLENUM RATED CABLE • LCD INTERFACE OR BACNET REQUIRED FOR DIFFUSER BALANCING AND CONFIGURATION SETTINGS.

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<p>PROJECT:</p>			
<p>ENGINEER:</p>		<p>APPROVED BY: PS</p>	<p>PBD PRODIGY BLADE TYPE DIFFUSER</p>
<p>CUSTOMER:</p>		<p>DRAWING NO: 276748</p>	
<p>SUBMITTAL DATE:</p>	<p>SPEC. SYMBOL:</p>	<p>DATE DRAWN: 2/26/2024</p>	

CIRCUIT BOARD CONNECTIONS - DRONE UNITS:



NOTE 1:
MAXIMUM OF 5 DRONES CAN BE DAISY CHAINED TOGETHER USING MODULAR RJ-12 CABLES

NOTE 2:
24 VAC POWER SIGNAL SHARE COMMON / GROUND TERMINAL. OBSERVE POLARITY BETWEEN UNITS

SIGNAL	DAMPER POSITION
0-2 VDC	NO SIGNAL DAMPER GOES TO 50%
2-10 VDC	PROPORTIONAL 2 VDC = MIN, 10 VDC = MAX

POWER
EACH DRONE USES 3.0VA
INPUT IMPEDANCE 200K (2-10 VDC SIGNAL)

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CUSTOMER:		DRAWING NO: 276748	
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