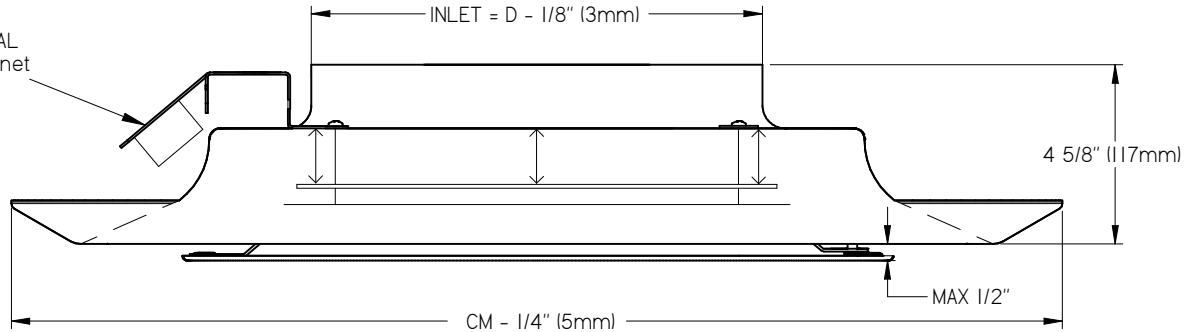


PRD - PRODIGY ROUND MOTORIZED VAV DIFFUSER

ELECTRONIC FIELD CONNECTIONS, OPTIONAL TRANSFORMER OR BACnet



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)
- RA - MATCHING RETURN. DIMENSIONS ARE EQUIVALENT TO STANDARD PRD.

CEILING MODULE (CM):

- 24" x 24" -FL OPTION
- 600mm x 600mm -FL OPTION
- 27 5/8" (700mm) Diameter -BV OPTION

NOMINAL DUCT SIZE (D):

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

POWER REQUIREMENTS:

- 24 VAC INPUT POWER, 3.0 VA PER UNIT (MASTER OR DRONE)
- 60Hz
- 50Hz
- SEE MODEL PPM FOR STAND-ALONE POWER MODULE (UP TO 15 UNITS)

OPTIONAL ON-BOARD TRANSFORMERS (MASTER ONLY):

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

NETWORK OPTION (MASTER ONLY):

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

MATERIAL:

STEEL CONSTRUCTION

OPTIONS:

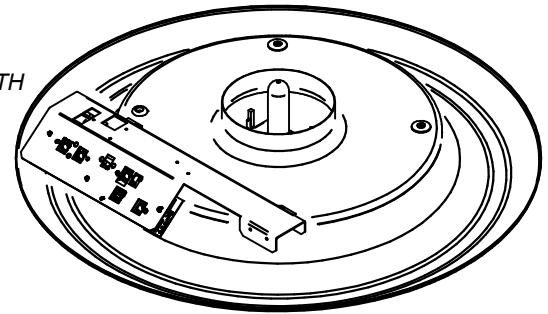
- PRC - PRESSURE RELIEF COLLAR (SHIPPED LOOSE)
- HB - HANGER BRACKETS

FINISH:

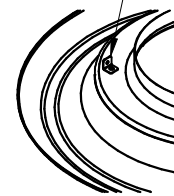
- B12 - WHITE POWDER COAT (OPTIONAL FINISHES AVAILABLE)

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

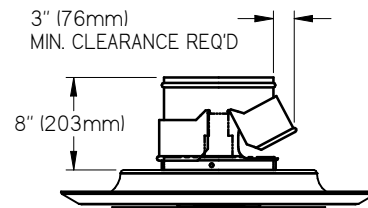
- PDM - PULSE DELAY MODULATION
- PWM - PULSE WIDTH MODULATION
- BIN - BINARY ON/OFF



OPTIONAL HANGER BRACKETS
2 OPPOSITE CORNERS



HB OPTION



PRESSURE RELIEF COLLAR OPTION

NOTES:

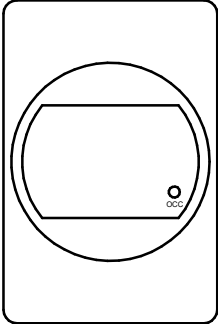
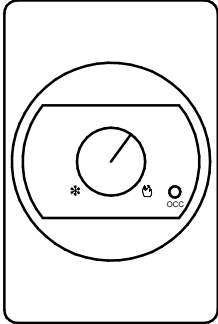
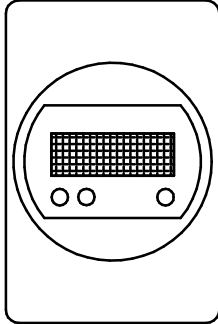
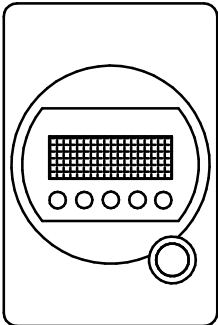
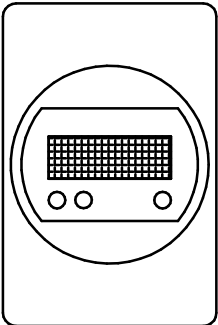
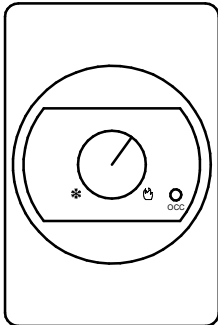
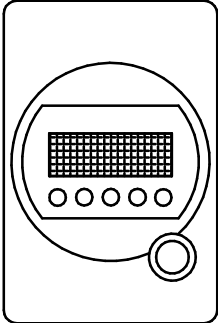
- FACTORY TOLERANCE ±1/16" (2mm)

ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.



| | | |
|------------------------|--|---|
| PROJECT: | | PRICE |
| ENGINEER: | | |
| CUSTOMER: | | PRD |
| SUBMITTAL DATE: | | PRODIGY ROUND DIFFUSER SELF MODULATING MOTORIZED VAV DIFFUSER |
| SPEC. SYMBOL: | | 271990 |
| | | FEB 2023 |

PRD - PRODIGY ROUND MOTORIZED VAV DIFFUSER

SETPOINT ADJUSTMENT OPTIONS (MASTER ONLY):

| | | |
|--|--|---|
|  |  |  |
| <input type="checkbox"/> SENS - THERMOSTAT SENSOR WITH BLANK FACE | <input type="checkbox"/> DIAL - THERMOSTAT WITH DIAL SETPOINT ADJUSTMENT | <input type="checkbox"/> LCD THERMOSTAT (°F) <input type="checkbox"/> LCD THERMOSTAT (°C) |
|  |  <p>WIRELESS BASE RECEIVER</p> |  <p>WIRELESS REMOTE DIAL THERMOSTAT</p> |
| <input type="checkbox"/> MOT - LCD THERMOSTAT WITH MOTION SENSOR (°F) <input type="checkbox"/> MOT - LCD THERMOSTAT WITH MOTION SENSOR (°C) | <input type="checkbox"/> WL - WIRELESS THERMOSTAT WITH DIAL SETPOINT ADJUSTMENT | |
|  | <p>NOTE:</p> <ul style="list-style-type: none"> THERMOSTATS ARE WALL MOUNTED RJ-45 CONNECTION ON BACK SIDE OF THERMOSTATS FOR EASE OF INSTALLATION THERMOSTATS ALSO INCLUDE ONE NETC35 - 35 FT. (10.7m) PLENUM RATED CABLE INCLUDED FOR CONNECTION TO DIFFUSER | |
| <input type="checkbox"/> CO2H - LCD THERMOSTAT CO AND HUMIDITY SENSORS (°F) <input type="checkbox"/> CO2H - LCD THERMOSTAT CO AND HUMIDITY SENSORS (°C) | | |

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| SUBMITTAL DATE: | FEB 2023 | |
| SPEC. SYMBOL: | | |

PRD - PRODIGY ROUND MOTORIZED VAV DIFFUSER

| BORDER OPTION | |
|--|--|
| <input type="checkbox"/> BV - BEVELLED FRAME RECOMMENDED FOR EXPOSED DUCT AND HARD CEILING APPLICATIONS | <input type="checkbox"/> FL - FLAT FRAME RECOMMENDED FOR EXPOSED DUCT AND T-BAR* CEILING APPLICATIONS |
| | |

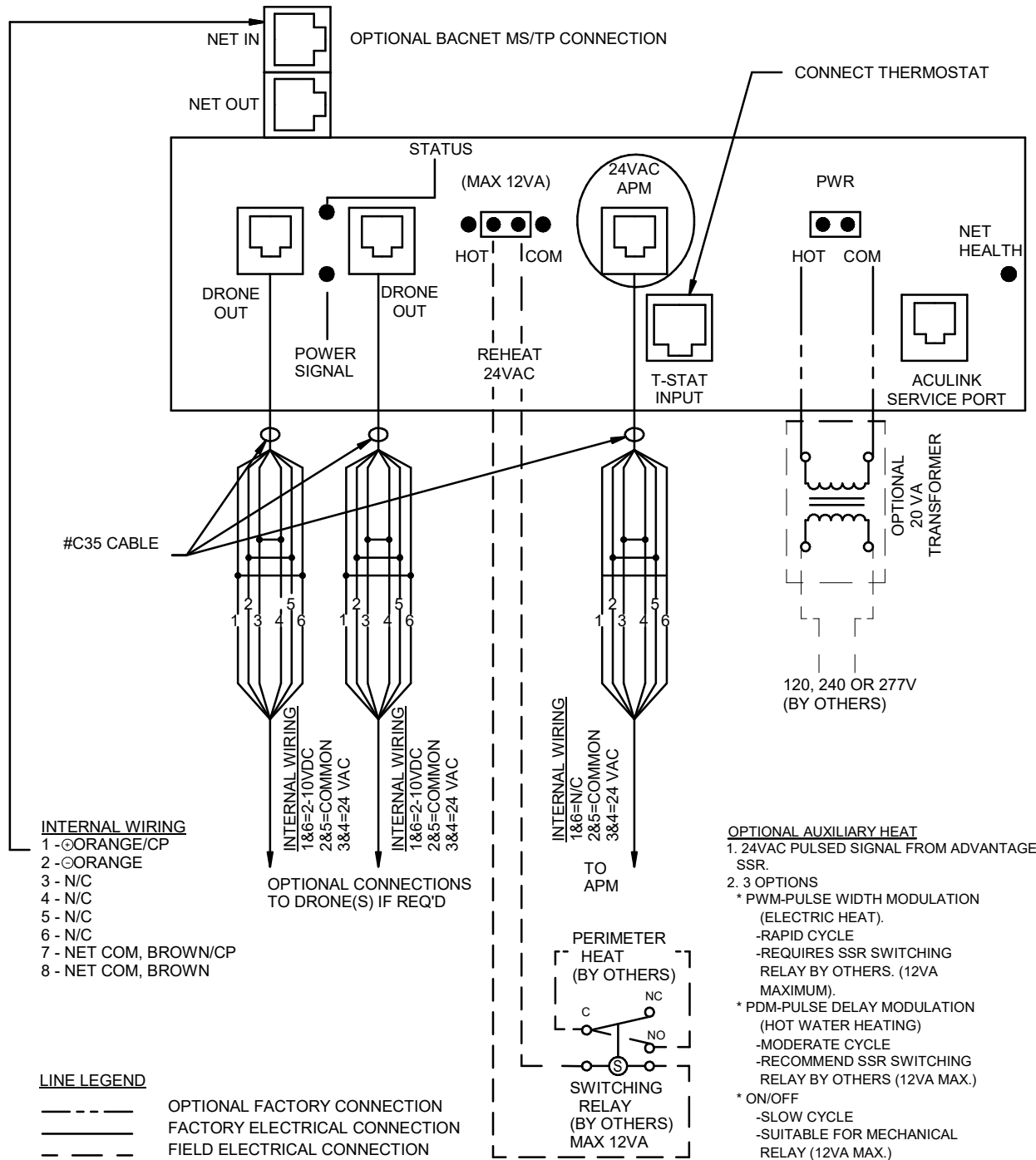
* T-BAR ADAPTER FRAME FOR T-BAR CEILING SOLD SEPARATELY

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| | | PRD PRODIGY ROUND DIFFUSER SELF MODULATING MOTORIZED VAV DIFFUSER |

PRD - PRODIGY ROUND MOTORIZED VAV DIFFUSER

CIRCUIT BOARD CONNECTIONS - MASTER UNITS:

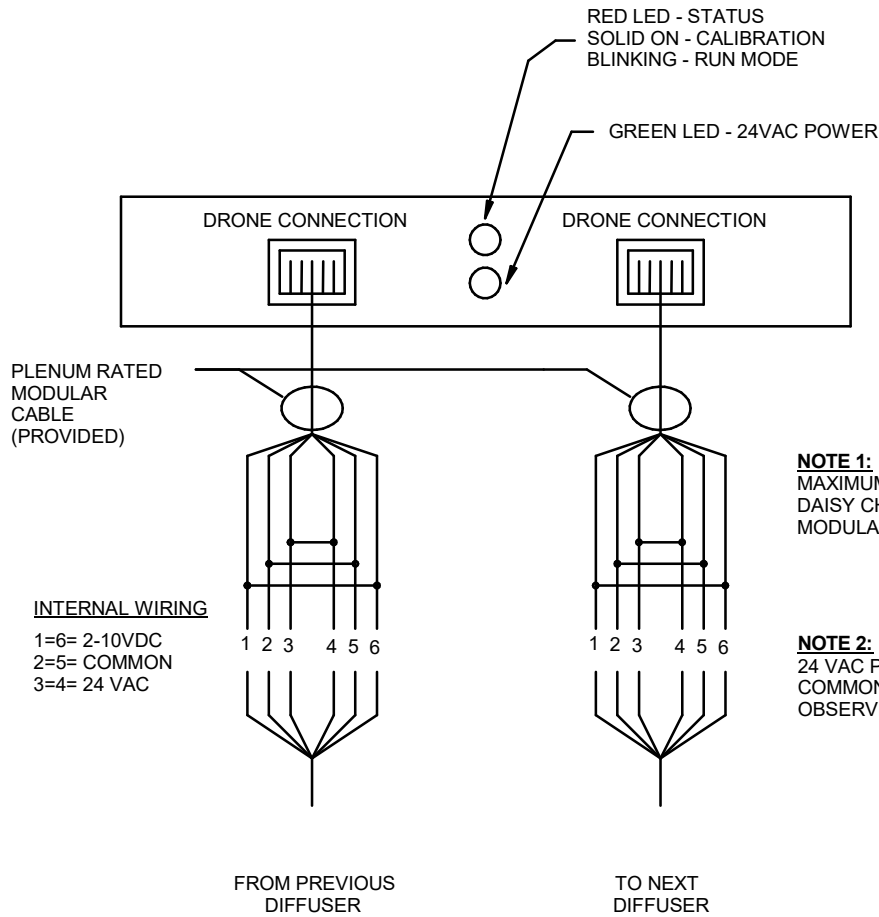


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PRD - PRODIGY ROUND MOTORIZED VAV DIFFUSER

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

LINE LEGEND

- OPTIONAL FACTORY CONNECTION
- FACTORY ELECTRICAL CONNECTION
- - - - - FIELD ELECTRICAL CONNECTION

| 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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