ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
EXAMPLE SYSTEM FOR A TRADITIONAL OR

FEATURES:
- LAMINAR FLOW DIFFUSER ARRAY WITH INTEGRATED HIGH PERFORMANCE LED LIGHTS INSIDE EACH INDIVIDUAL MODULE
- OPTIONAL PERIMETER WELDED CEILING GRID SUPPORTS ACCESS PANELS AND FLUSH-MOUNT PANELS FOR EQUIPMENT BOOM INTEGRATION
- UL 1598 CERTIFIED, AIR-HANDLING LUMINAIRE

EXAMPLE SYSTEM

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>2,500 CFM</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACH</td>
<td>25</td>
</tr>
</tbody>
</table>
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
3D INTERACTIVE MODEL - TRADITIONAL OR
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
REFLECTED CEILING PLAN - TRADITIONAL OR ASHRAE 170-2017 VERIFICATION - TRADITIONAL OR

- B12 STANDARD WHITE FINISH
- PANEL CUTOUTS FOR ROOMS DONE IN FIELD BY OTHERS
- RECOMMENDED INLET SIZE AND LOCATION SHOWN
- THE CEILING IS FACTORY PREMANUFACTURED TO SIZES AND TOLERANCE +/- .032"
- SITE ADJUSTMENTS TO PERIMETER SOFFITS AND/OR DRYWALL MAY BE REQUIRED AND ARE THE RESPONSIBILITY OF THE INSTALLER

<table>
<thead>
<tr>
<th>USA</th>
<th>88 sq. ft.</th>
<th>HOGC</th>
<th>59 sq. ft.</th>
<th>LCD</th>
<th>22 sq. ft.</th>
<th>HOGC PERIMETER</th>
<th>HALF SHEET</th>
</tr>
</thead>
<tbody>
<tr>
<td>24 x 48 (x 11)</td>
<td>24 x 24 (x 12)</td>
<td>24 x 24 (x 2)</td>
<td>LCD PANELS</td>
<td>LCD PANELS</td>
<td>LCD PANELS</td>
<td>LCD PANELS</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL AREA = 147 sq. ft.**

**ASHRAE 170-2017 CRITERIA**

<table>
<thead>
<tr>
<th>PRIMARY SUPPLY DIFFUSER ARRAY AREA COVERAGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>&gt;70%</td>
</tr>
</tbody>
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<table>
<thead>
<tr>
<th>AVERAGE LAMINAR VELOCITY</th>
<th>BASED ON</th>
</tr>
</thead>
<tbody>
<tr>
<td>2500 CFM</td>
<td>28 CFM/soft</td>
</tr>
</tbody>
</table>

| AIR CHM CALCULATED USING 600 SOFT, 10" CEILING |

**PROJECT:**

USA U5R SUITE ARRAY OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

**ENGINEER:**

**CUSTOMER:**

**SUBMITTAL DATE:**

11/15/2019

**REVISION:**

D

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ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
USA SECTION BREAKDOWN - TRADITIONAL OR

- THE ULTRASUITE ARRAY IS SUPPLIED IN MULTIPLE FACTORY ASSEMBLED SECTIONS NO LARGER THAN 10'X4'
- ASSEMBLED SECTION CONNECTIONS DONE IN FIELD BY OTHERS WITH FACTORY PROVIDED HARDWARE
- LED LIGHTING IS FACTORY INSTALLED AND WIRED FOR EFFORTLESS ONSITE INSTALLATION
- INSTALLATION AND MOUNTING OF THE ULTRASUITE ARRAY IS THE RESPONSIBILITY OF THE INSTALLER

KC - THE ULTRASUITE ARRAY IS SUPPLIED IN MULTIPLE FACTORY ASSEMBLED SECTIONS NO LARGER THAN 10'X4'
- ASSEMBLED SECTION CONNECTIONS DONE IN FIELD BY OTHERS WITH FACTORY PROVIDED HARDWARE
- LED LIGHTING IS FACTORY INSTALLED AND WIRED FOR EFFORTLESS ONSITE INSTALLATION
- INSTALLATION AND MOUNTING OF THE ULTRASUITE ARRAY IS THE RESPONSIBILITY OF THE INSTALLER
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
PHOTOMETRIC ANALYSIS - TRADITIONAL OR

LUMINAIRE HEIGHT: 10 FT
CALCULATION ZONE: 3 FT

Operating Table Operating Area
Maximum 332 fc Maximum 319 fc
Average 221 fc Average 227 fc

ANSI/IES RP-29-16 RECOMMENDS 3000 LUX (279 FC) AT THE OPERATING TABLE.
The calculated values do not include or account for additional lighting.
Lighting analysis has been performed using a combination of lab tested IES files and calculated data.
Lighting calculations are estimated using best practice and may differ slightly from actual field conditions.
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
EXAMPLE SYSTEM FOR A HYBRID OR/IMAGING SUITE

FEATURES:

- LAMINAR FLOW DIFFUSER ARRAY WITH INTEGRATED HIGH PERFORMANCE LED LIGHTS INSIDE EACH INDIVIDUAL MODULE
- OPTIONAL PERIMETER WELDED CEILING GRID SUPPORTS ACCESS PANELS AND FLUSH-MOUNT PANELS FOR EQUIPMENT BOOM INTEGRATION
- UL 1598 CERTIFIED, AIR-HANDLING LUMINAIRE

EXAMPLE SYSTEM

<table>
<thead>
<tr>
<th>AIRFLOW</th>
<th>CFM</th>
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</thead>
<tbody>
<tr>
<td>2,850</td>
<td></td>
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<tr>
<td>20</td>
<td>ACH</td>
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</table>

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ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
3D INTERACTIVE MODEL - HYBRID OR/IMAGING SUITE

- USE THE SCROLL WHEEL TO ZOOM
- HOLD DOWN THE LEFT MOUSE BUTTON TO ROTATE
- HOLD DOWN CTRL AND LEFT MOUSE BUTTON TO MOVE

CEILING LEVEL UNISTRUT (OR EQUIVALENT), SUPPORT TO STRUCTURE, AND MEDICAL EQUIPMENT RAILS ARE DESIGNED, PROVIDED, AND INSTALLED BY OTHERS.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE:  11/15/2019

REVISION: D
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
REFLECTED CEILING PLAN - HYBRID OR/IMAGING SUITE
ASHRAE 170-2017 VERIFICATION - HYBRID OR/IMAGING SUITE

TOTAL AREA = 188 sq. ft.

<table>
<thead>
<tr>
<th>USA = 87 sq. ft.</th>
<th>HOME = 97 sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>A: 23 x 24 (x 7)</td>
<td>C: 11.3 x 48.5 (x 1)</td>
</tr>
<tr>
<td>B: 12.1 x 24 (x 1)</td>
<td>D: 12.1 x 24 (x 1)</td>
</tr>
<tr>
<td>F: 12.1 x 34.6 (x 1)</td>
<td>H: 12.1 x 34.5 (x 1)</td>
</tr>
<tr>
<td>G: 12.1 x 27.3 (x 1)</td>
<td>I: 12.1 x 27.3 (x 1)</td>
</tr>
<tr>
<td>E: 11.9 x 18.1 (x 1)</td>
<td>J: 11.8 x 24 (x 1)</td>
</tr>
<tr>
<td>L: 11.6 x 30 (x 1)</td>
<td>U: 6.3 x 1.75 (x 1)</td>
</tr>
<tr>
<td>RC - SOLID CORE ACCESS PANELS</td>
<td>HERO PERIMETER HAP TYP</td>
</tr>
<tr>
<td>A: 12.1 x 24 (x 1)</td>
<td>B: 12.1 x 24 (x 1)</td>
</tr>
<tr>
<td>C: 12.1 x 24 (x 1)</td>
<td>D: 12.1 x 24 (x 1)</td>
</tr>
<tr>
<td>E: 11.9 x 18.1 (x 1)</td>
<td>F: 11.3 x 48.5 (x 1)</td>
</tr>
<tr>
<td>G: 12.1 x 27.3 (x 1)</td>
<td>H: 12.1 x 27.3 (x 1)</td>
</tr>
<tr>
<td>I: 12.1 x 24 (x 1)</td>
<td>J: 12.1 x 24 (x 1)</td>
</tr>
</tbody>
</table>

ASHRAE 170-2017 CRITERIA

PRIMARY SUPPLY DIFFUSER ARRAY AREA COVERAGE

AVG. LAMINAR VELOCITY
29 CFM/FT²
97 CFM
20 ACH

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- B12 STANDARD WHITE FINISH
- PANEL CUTOUTS FOR BOOMS DONE IN FIELD BY OTHERS
- RECOMMENDED INLET SIZE AND LOCATION SHOWN
- THE CEILING IS FACTORY PREMANUFACTURED TO SIZES AND TOLERANCE +/- .032" 
- SITE ADJUSTMENTS TO PERIMETER SOFFITS AND/OR DRYWALL MAY BE REQUIRED AND ARE THE RESPONSIBILITY OF THE INSTALLER

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 11/15/2019

REVISION: D

PRICE

ULTRASUITE ARRAY OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

USA 269554
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

USA SECTION BREAKDOWN - HYBRID OR/IMAGING SUITE
HGWC SECTION BREAKDOWN - HYBRID OR/IMAGING SUITE

THE ULTRASUITE ARRAY IS SUPPLIED IN MULTIPLE FACTORY ASSEMBLED SECTIONS NO LARGER THAN 10'X4'
ASSEMBLED SECTION CONNECTIONS DONE IN FIELD BY OTHERS WITH FACTORY PROVIDED HARDWARE
LED LIGHTING IS FACTORY INSTALLED AND WIRED FOR EFFORTLESS ONSITE INSTALLATION
INSTALLATION AND MOUNTING OF THE ULTRASUITE ARRAY IS THE RESPONSIBILITY OF THE INSTALLER
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
PHOTOMETRIC ANALYSIS - HYBRID OR/IMAGING SUITE

LUMINAIRE HEIGHT: 9.5 FT
CALCULATION ZONE: 3 FT

Operating Table Operating Area
Maximum: 328 fc Maximum: 315 fc
Average: 308 fc Average: 228 fc

ULTRASUITE® OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

PHOTOMETRIC ANALYSIS - HYBRID OR/IMAGING SUITE

OPERATING AREA

ANSI/IES RP-29-16 RECOMMENDS 3000 LUX (279 FC) AT THE OPERATING TABLE.
THE CALCULATED VALUES DO NOT INCLUDE OR ACCOUNT FOR ADDITIONAL LIGHTING.
LIGHTING ANALYSIS HAS BEEN PERFORMED USING A COMBINATION OF LAB TESTED IES FILES AND CALCULATED DATA.
LIGHTING CALCULATIONS ARE ESTIMATED USING BEST PRACTICE AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS.

PROJECT: OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
CUSTOMER: ULTRASUITE ARRAY
ENGINEER: USA
SUBMITTAL DATE: 11/15/2019
REVISION: D

Sheet 10 of 19

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ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
UNISTRUT INTEGRATION DETAIL

MINIMUM 12" RECOMMENDED FASTENER SPACING

FASTENING OF HGWC TEE TO UNISTRUT DONE IN FIELD BY OTHERS WITH HARDWARE PROVIDED BY OTHERS. PRICE RECOMMENDS CHECKING WITH STRUCTURAL ENGINEER PRIOR TO DRILLING OR PENETRATING STRUT PROFILE.

CP CEILING PANEL INSTALLED INTO HGWC HOSPITAL GRADE WELDED CEILING

P1001 UNISTRUT (OR EQUIVALENT) PROVIDED AND INSTALLED BY OTHERS

PRICE SUPPLIED ALUMINUM CLOSURE STRIP SNAPS INTO BOTTOM OF UNISTRUT FINISH CEILING

PRICE SUPPLIED U-CHANNEL FILL PIECE COMPLETES CEILING WHEN ULTRASUITE MODULES EXTEND BEYOND UNISTRUT

PRICE SUPPLIED GASKET TO BE INSTALLED IN FIELD BY OTHERS

FIELD SUPPLIED AND INSTALLED FASTENERS MUST NOT PROTRUD INTO THE UNISTRUT AT ANY POINT WHICH WOULD INTERFERE WITH POSITIONING OF THE FIXING BLOCK (REF VENDOR EQUIPMENT DRAWINGS)

PRICE SUPPLIED U-CHANNEL FILL PIECE COMPLETES CEILING WHEN ULTRASUITE MODULES EXTEND BEYOND UNISTRUT

PRICE SUPPLIED ALUMINUM CLOSURE STRIP SNAPS INTO BOTTOM OF UNISTRUT FINISH CEILING

HGWC CENTER TO CENTER = UNISTRUT CENTER TO CENTER - 1 3/4"

PRICE CEILING SYSTEM IS DESIGNED TO INTEGRATE WITH STRUCTURAL SUPPORT BY OTHERS. CEILING LEVEL UNISTRUT (OR EQUIVALENT) AND SUPPORT TO STRUCTURE ARE DESIGNED, PROVIDED, AND INSTALLED BY OTHERS.

PROJECT:
ENGREER:
CUSTOMER:
SUBMITTAL DATE:
REVISION:

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ULTRASUITE ARRAY OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

UNISTRUT LENGTH = 90 ft.
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

STANDARD CONSTRUCTION
- 14 GA (.064 THICK) ALUMINUM PLENUM
- EXTRUDED ALUMINUM OUTER FRAME AND DIFFUSER FACE FRAME
- TIG WELDED PLENUM, DIFFUSER FACE AND OUTER FRAME
- ZINC PLATED EYE BOLTS FOR HANGING
- ROOM SIDE ADJUSTABLE APERTURE PLATE DAMPER
- 2 STAINLESS STEEL RETAINER CABLES PER DIFFUSER FACE
- DIFFUSER FACE SECURED WITH COUNTERSUNK FLAT HEAD MACHINE SCREWS

LED LIGHTING SPECIFICATIONS
- LED LIGHTING INTEGRATED INTO EACH DIFFUSER MODULE
- IP67 RATED LED STRIP WITH QUICK CONNECTORS
- COLOR RENDERING INDEX (CRI) 90
- L80 > 60,000 HRS.
- FOR IES PHOTOMETRIC FILES VISIT: www.priceindustries.com/criticalenvironments/products/ultrasuite

FINISH
- B12 STANDARD WHITE

LED COLOR TEMPERATURE
- 5100K (5100 KELVIN)

LISTINGS
- UL 1598 AIR-HANDLING LUMINAIRES
- UL 2043 FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES
- UL2101 LOW VOLTAGE LIGHTING SYSTEM
- UL 3750 LIGHT EMITTING DIODE (LED) EQUIPMENT FOR USE IN LIGHTING PRODUCTS
- UL 3130 CLASS 2 POWER UNITS
- UL 94 FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS IN DEVICES AND APPLIANCES
- IP 66 RATED INGRESS PROTECTION AGAINST DUST AND LIQUIDS
- MIL-STD-461 FOR ELECTROMAGNETIC COMPATIBILITY

 Dimensions: (L) = LENGTH, (W) = WIDTH, (H) = HEIGHT

<table>
<thead>
<tr>
<th>NOMINAL UNIT SIZE</th>
<th>MIN HEIGHT (H)</th>
<th>MIN LENGTH (L)</th>
<th>MIN WIDTH (W)</th>
<th>MAX HEIGHT (H)</th>
<th>MAX LENGTH (L)</th>
<th>MAX WIDTH (W)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2x2</td>
<td>12,000</td>
<td>24.250</td>
<td>24.250</td>
<td>12,000</td>
<td>24.250</td>
<td>24.250</td>
</tr>
<tr>
<td>2x4</td>
<td>48.500</td>
<td>24.250</td>
<td>36.375</td>
<td>22,000</td>
<td>24.250</td>
<td>36.375</td>
</tr>
</tbody>
</table>

- STANDARD HEIGHT (H) = 16"
- MAX INLET HEIGHT = (H) - 8"
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

USE A 5/32" ALLEN KEY TO THE COUNTERSUNK FLAT HEAD SCREWS TO REMOVE THE PLASTIC DIFFUSER FACE (x 4)

SLIDE DAMPER APERTURE PLATE FOR AIRFLOW ADJUSTMENT BY LOOSENING AND SLIDING THE SCREW WITH A 3/16" ALLEN KEY.
FULL LEFT OR FULL RIGHT TO CLOSED POSITION CENTER TO OPEN POSITION

ADJUSTABLE APERTURE PLATE DAMPER

PLASTIC DIFFUSER FACE

DETAIL A

DETAIL B

ULTRASUITE ARRAY OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

USA

KC 269854

11/15/2019

REVISION: D

SHEET 13 OF 19
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
OPTIONAL ROOMSIDE HEPA FILTRATION

- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
- DIMENSIONS A & B TOLERANCES +/- 1/16"
- FILTERS COME WITH GEL SEAL FILLED CHANNEL
- FRAME DETAILS:
  - MATERIAL: ANODIZED EXTRUDED ALUMINUM
  - THICKNESS: 3/16" (MINIMUM)
- FILTERS ARE UL 900 CLASS 1 CERTIFIED
- EFFICIENCY AND LEAK SCAN TESTED
- HEPA EFFICIENCY: 99.99% (.3 MICRON)
- MINIMUM MODULE WIDTH FOR ROOMSIDE HEPA FILTRATION IS 12"

VISIT PRICE INDUSTRIES WEBSITE FOR FILTER QUICK START GUIDE

GASKETED APERTURE PLATE DAMPER SEALS AGAINST HEPA FILTER FRAME

APERTURE PLATE DAMPER ADJUSTABLE FROM ROOMSIDE

3/16" INTERNAL HEX SOCKET CAP-HEAD BOLT HOLDS DAMPER AND HEPA FILTER IN PLACE
SEPARATE HARDWARE FOR DAMPER AND HEPA ALLOWS FOR INDEPENDENT REMOVAL

HEPA FILTER WITH GEL SEAL INSTILLS INTO ULTRASUITE KNIFE EDGE FRAME

NOTES

- ACTUAL FILTER SIZE

<table>
<thead>
<tr>
<th>WIDTH (W)</th>
<th>LENGTH (L)</th>
<th>HEIGHT (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>19.88</td>
<td>3.50</td>
<td>3.50</td>
</tr>
<tr>
<td>19.88</td>
<td>44.13</td>
<td>3.50</td>
</tr>
</tbody>
</table>

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.
REMOTE DRIVER CABINETS ACCEPT ONE SINGLE POINT HIGH VOLTAGE (120-277V~) CONNECTION PER CABINET

CONNECTIONS BETWEEN REMOTE DRIVER CABINET AND DIFFUSER MODULE TERMINAL BLOCK ENCLOSURE TO BE DONE IN FIELD BY OTHERS SEE TABLE FOR RECOMMENDED DISTANCE AND WIRE GAUGE

EYE BOLTS FOR HANGING

HGWC WELDED GRID

HGWC LOOSE HALF TEE PERIMETER TRIM INSTALLED IN FIELD BY OTHERS

LOW VOLTAGE TERMINAL BLOCK ENCLOSURE

LOW VOLTAGE WIRING BY OTHERS

REMOTE DRIVER CABINETS REQUIRE SINGLE POINT HIGH VOLTAGE (120-277V~) CONNECTION (277V~ RECOMMENDED)

- 0-10V DIMMER SHIPS LOOSE. THE TOTAL 0-10V CONTROL SIGNAL WIRING FOR THIS CONTROL SHOULD NOT EXCEED 500 FT. DO NOT USE WIRE SMALLER THAN 20 AWG.

- 0-10V DIMMER CONTROLS UP TO 6 DRIVERS AT 120V~ AND UP TO 16 DRIVERS AT 277V~.

- LED DRIVERS SHIP FACTORY WIRED AND INSTALLED IN REMOTE DRIVER CABINET

- LED DRIVERS OFFER CONTINUOUS, FLICKER-FREE DIMMING FROM 100% TO 1% WITH RELAY SHUTOFF

- OPTIONAL 0.1% DIMMING AVAILABLE

- ULTRASUITE MODULES COME WITH FACTORY WIRED AND INSTALLED TOP MOUNTED LOW VOLTAGE TERMINAL BLOCK ENCLOSURE

- INCOMING HIGH VOLTAGE POWER AND LOW VOLTAGE CONNECTION BETWEEN ULTRASUITE MODULES AND REMOTE DRIVER CABINET ARE THE RESPONSIBILITY OF THE INSTALLER

- MAX DISTANCE BETWEEN ULTRASUITE MODULE AND REMOTE DRIVER CABINET IS DEPENDANT ON WIRE GAUGE TO MINIMIZE VOLTAGE DROP, SEE TABLE BELOW

- SEE ULTRASUITE INSTALLATION MANUAL AVAILABLE AT www.priceindustries.com FOR RECOMMENDED REMOTE DRIVER CABINET AND ULTRASUITE SYSTEM INSTALLATION

**TYPICAL WIRING DETAILS**

**WIRING SCHEMATIC IS NOT TO SCALE AND IS SHOWN FOR REFERENCE ONLY**

**INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS**

<table>
<thead>
<tr>
<th>LOW VOLTAGE WIRE LENGTHS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIRE GAUGE (awg)</td>
</tr>
<tr>
<td>-------------------</td>
</tr>
<tr>
<td>18</td>
</tr>
<tr>
<td>16</td>
</tr>
<tr>
<td>14</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>10</td>
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**PROJECT:**

**CUSTOMER:** 269854

**SUBMITTAL DATE:** 11/15/2019

**REVISION:** D
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
TYPICAL WIRING DETAILS

0-10V DIMMER SWITCH

HIGH VOLTAGE FIELD CONNECTIONS

LOW VOLTAGE 0-10V FIELD CONNECTIONS

BARRIER TO SEPARATE HIGH VOLTAGE AND LOW VOLTAGE SIDE

ALL INTERNAL REMOTE DRIVER CABINET WIRING IS DONE IN FACTORY

LOW VOLTAGE FIELD CONNECTIONS

PRE-WIRED FACTORY CONNECTION
FIELD CONNECTION
G GROUND
N NEUTRAL
L LINE CONNECTION

CONNECTIONS BETWEEN REMOTE DRIVER CABINET AND DIFFUSER MODULE TERMINAL BLOCK ENCLOSURE TO BE DONE IN FIELD BY OTHERS

FIELD CONNECTION (FROM REMOTE DRIVER CABINET)
FACTORY CONNECTION (FROM LED STRIP)
LOW VOLTAGE FIELD CONNECTIONS

INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
REMOTE DRIVER CABINETS

REMOTE DRIVER CABINETS CAN BE WIRED SEPARATELY TO ALLOW FOR CRITICAL & NON CRITICAL CIRCUITS WITHIN A SINGLE ULTRASUITE SYSTEM

REMOTE DRIVER CABINET
DIMENSIONS (INCHES)

<table>
<thead>
<tr>
<th># OF DRIVERS</th>
<th>L</th>
<th>W</th>
<th>H</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>11</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>4</td>
<td>22</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>6</td>
<td>33</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>44</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>10</td>
<td>55</td>
<td>15</td>
<td>5</td>
</tr>
<tr>
<td>12</td>
<td>66</td>
<td>15</td>
<td>5</td>
</tr>
</tbody>
</table>

REMOTE DRIVER CABINETS SHIP WITH DRIVERS AND TERMINAL BLOCKS LABELED WITH THEIR CORRESPONDING DIFFUSER MODULE FOR EASY INSTALLATION

REMOTE MOUNTING HOLES TYPICAL x6

REMOTE DIMENSIONS (INCHES)

O.265 MOUNTING HOLES

INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS.

PROJECT:

ENGINEER:

CUSTOMER:

SUBMITTAL DATE: 11/15/2019

REVISION: D

USA
ULTRASUITE ARRAY
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

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All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
HGWC INTEGRATION DETAILS

- Closed cell polyethylene gasket (.031" x .750" thick uncompressed) applied between tees in field
- Fastening done in field with self-tapping screws #8 x .500 max provided by others
- Closed cell polyethylene gasket (.125" x .500" thick uncompressed) shipped loose and field applied on all tees
- Full tees factory pre-punched every 6" on center for hanger wires (supplied by others)
- Opening cutout for air to pass between plenums
- 1/4" SS flat washer 1/4-20 JAM nut
- 1/4-20 x 3/4 SS bolt
- Drywall (by others)
- Ceiling panel
- HGWC loose half tee
- HGWC grid integration
- Half tee field joint
- Full tee perimiter sheet rock soffit
- HGWC grid section
- Self-tapping screws #8-1/2" max provided by others
- Self-tapping screws #8 x .500 max provided by others
- Bolted joint assembly

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.

Project:
Engineer:
Customer:
Submittal Date: 11/15/2019
Revision: D

ULTRASUITE ARRAY OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

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ULTRASUITE® OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
HGWC INTEGRATION DETAILS

- Closed cell polyethylene gasket (.031" x .750" thick uncompressed) applied between tees in field
- Fastening done in field with self-tapping screws #8 x .500 max provided by others
- Closed cell polyethylene gasket (.125" x .500" thick uncompressed) shipped loose and field applied on all tees
- Full tees factory pre-punched every 6" on center for hanger wires (supplied by others)
- Opening cutout for air to pass between plenums
- 1/4" SS flat washer 1/4-20 JAM nut
- 1/4-20 x 3/4 SS bolt
- Drywall (by others)
- Ceiling panel
- HGWC loose half tee
- HGWC grid integration
- Half tee field joint
- Full tee perimiter sheet rock soffit
- HGWC grid section
- Self-tapping screws #8-1/2" max provided by others
- Self-tapping screws #8 x .500 max provided by others
- Bolted joint assembly

All metric dimensions ( ) are soft converted. Imperial dimensions are converted to metric and rounded to the nearest millimeter.
ULTRASUITE®
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING
UNISTRUT INTEGRATION DETAILS

ZINC PLATED EYE BOLTS FOR HANGING
USA SYSTEM TO BE HUNG INDEPENDENTLY

TYPICAL INLET MANIFOLD DETAIL

ALUMINUM CLOSURE STRIP PROVIDED BY PRICE
HGWC WELDED GRID
HGWC HALF TEE SHIPS LOOSE FOR FIELD INSTALLATION
PERIMETER SHEETROCK CEILING BY OTHERS
HGWC UNISTRUT INTEGRATION

SELF TAPPING SCREWS PROVIDED BY OTHERS
P1001 UNISTRUT
GASKET SHIPS LOOSE FOR FIELD INSTALLATION

U CHANNEL DETAIL

P1001 UNISTRUT
GASKET SHIPS LOOSE FOR FIELD INSTALLATION
USA UNISTRUT INTEGRATION
USA UNISTRUT INTEGRATION

ALUMINUM CLOSURE STRIP PROVIDED BY PRICE
USA MODULE

CEILING SYSTEM ELEVATION VIEW

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

PROJECT: ENGINEER: CUSTOMER: SUBMITTAL DATE: REVISION: D

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