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
- FULLY CUSTOMIZABLE TO MATCH THE DEMANDING AND OFTEN CROWDED MODERN HOSPITAL AND CLEANROOM CEILING LAYOUTS
- OPTIONAL PERIMETER APEX WELDED CEILING GRID SUPPORTS ACCESS PANELS AND FLUSH-MOUNT PANELS FOR EQUIPMENT BOOM INTEGRATION



EXAMPLE SYSTEM						
AIRFLOW	2500	CFM				
_	20	ACH				
LIGHTING & ELECTRICAL SPECIFICATIONS	5000K	COLOUR TEMPERATURE				
	95	CRI				
	100% TO 1%	DIMMING				
	0-10V					
	277	INCOMING VOLTAGE				



Project:

274978 Revision: B 08-01-2023



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

ORDER OF INSTALLATION (CLICK BUTTONS TO TOGGLE VIEWS)

CEILING LEVEL SUPPORT STRUT

SUPERSUITE (View A)

PLENUM MANIFOLD

PLENUM MANIFOLD

SUPERSUITE

SUPERSUITE

APEX CEILING GRID

APEX CEILING GRID

APEX-CP-SC CEILING PANELS

U-CHANNELS

PERIMETER HALF TEE

MEDICAL EQUIPMENT SUPPORT RAILS

CLOSURE STRIP

FINAL INSTALLATION

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

CLICK IMAGE TO ACTIVATE 3D PDF







STRUCTURAL COMPONENTS (CLICK BUTTONS TO TOGGLE VIEWS)

KEYSTONE SUPPLIED COMPONENTS

CEILING LEVEL SUPPORT STRUT & MEDICAL EQUIPMENT SUPPORT RAILS

SECONDARY SUPPORT STRUT

VERTICAL & ANGULAR SUPPORT STRUT

BUILDING STRUCTURE

ROOMSIDE VIEW

ROOMSIDE VIEW WITH RCP

ROOMSIDE VIEW WITH RCP (View B)

SUPERSUITE

Project:

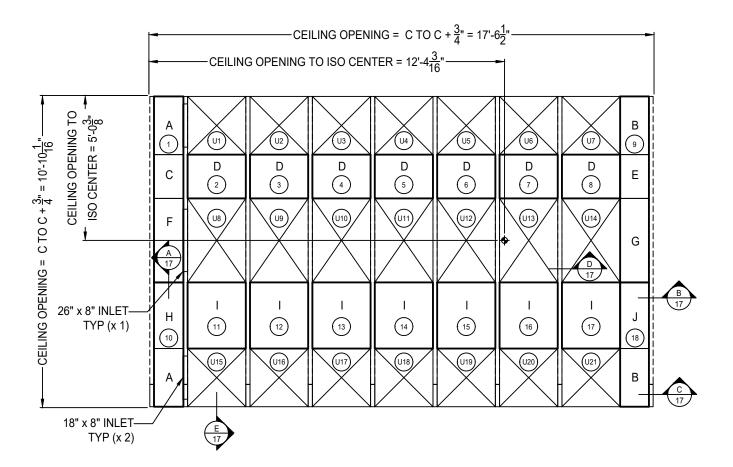
274978

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BOOM SUPPORT PLATE AND SUPPORT TO STRUCTURE ARE DESIGNED, PROVIDED, AND INSTALLED BY OTHERS

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

REFLECTED CEILING PLAN - HYBRID OR/IMAGING SUITE



SSA AREA = 98 sq. ft.	APEX AREA = 91 sq. ft.
00/1/11\=/1 00 0q.10	/

U CHANNEL INTERNAL TRIM PIECE	APEX LOOSE HALF TEE PERIMETER TRIM PIECE	SSA - SUPERSUITE MODULES				D COR PANEL						
1.75 x 9.312 (x 9)	120" (x8)	24 x 24 (x 14) 24 x 35 (x 7)	A: B: C: D: E:	12.1 11.9 12.1 18.1 11.9	X X X X		(x 2) (x 2) (x 1) (x 7) (x 1)	H:	12.1 11.9 12.1 24.0 11.9	X X X X	27.3	(x 1) (x 1) (x 7)

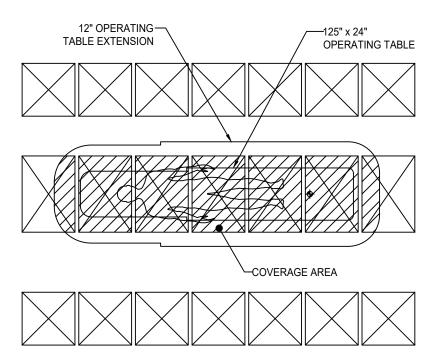
B12 STANDARD WHITE FINISH

PANEL CUTOUTS FOR BOOMS DONE IN FIELD BY OTHERS

THE CEILING IS FACTORY PREMANUFACTURED TO SIZES AND TOLERANCE +/- 16"

SITE ADJUSTMENTS TO PERIMETER SOFFITS AND/OR DRYWALL MAY BE REQUIRED AND ARE THE RESPONSIBILITY OF THE INSTALLER
ASHRAE 170 VERIFICATION IS SHOWN TO ASSIST IN PROJECT COORDINATION. FINAL ASHRAE 170 COMPLIANCE, AS WELL AS COMPLIANCE WITH ALL APPLICABLE LOCAL CODES AND REQUIREMENTS REMAINS THE RESPONSIBILITY OF THE EOR OR INSTALLER ON THE PROJECT

ASHRAE 170-2021 TABLE COVERAGE VERIFICATION - HYBRID OR/IMAGING SUITE



THIS LAYOUT COMPLIES WITH ASHRAE 170-2021 7.4.1.b.						
ASHRAE 170-2021 7.4.1.a. ASHRAE 170-2021 COMPLIANCE AIRFLOW RANGE 7.4.1.b. COMPLIANCE						
2500 - 3400 CFM BASED ON 98 SQFT	29% OF THE 12" OPERATING TABLE EXTENSION USED FOR NON DIFFUSER USES					

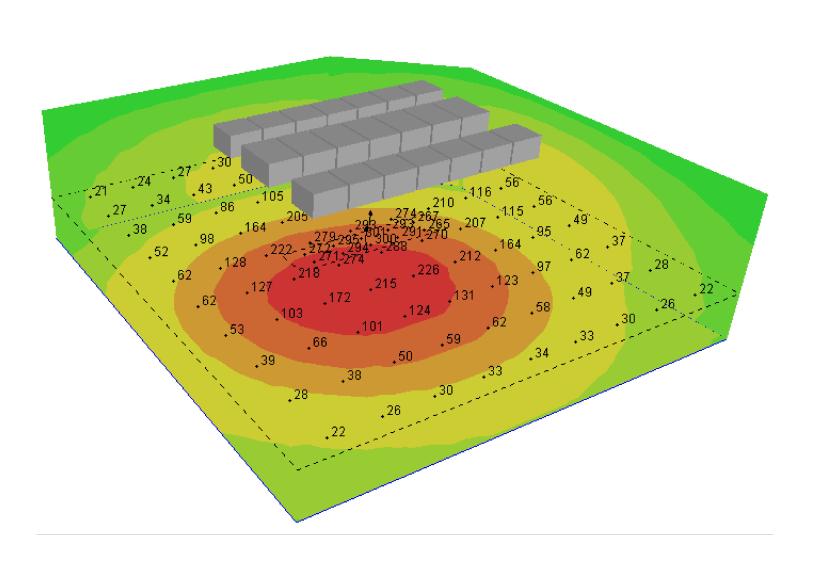
ASHRAE 170-2021

7.4.1.a. - THE AIRFLOW SHALL BE UNIDIRECTIONAL, DOWNWARDS, AND THE **AVERAGE VELOCITY OF THE DIFFUSERS SHALL BE 25 TO 35 CFM/SQFT** (127 TO 178 L/S/SQM). THE DIFFUSERS SHALL BE CONCENTRATED TO PROVIDE AN AIRFLOW PATTERN OVER THE PATIENT AND SURGICAL TEAM.

7.4.1.b. - THE COVERAGE AREA OF THE PRIMARY SUPPLY DIFFUSER ARRAY SHALL EXTEND A MINIMUM OF 12 IN. (305 mm) BEYOND THE FOOTPRINT OF THE SURGICAL TABLE ON EACH SIDE. WITHIN THE PORTION OF THE PRIMARY SUPPLY DIFFUSER ARRAY THAT CONSISTS OF AN AREA ENCOMPASSING 12 IN. (305mm) ON EACH SIDE OF THE FOOTPRINT OF THE SURGICAL TABLE, NO MORE THAN 30% OF THIS PORTION OF THE PRIMARY SUPPLY DIFFUSER ARRAY AREA SHALL BE USED FOR NON DIFFUSER USES SUCH AS LIGHTS, GAS COLUMNS, EQUIPMENT BOOMS, ACCESS PANELS, SPRINKLERS, ETC.

SUPERSUITE						
Project:						
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OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING PHOTOMETRIC ANALYSIS - HYBRID OR/IMAGING SUITE



.21	.24	.27	.30	.31	.30	.27		
.27	.34	. 43	.50	.52	.50	.43	.34	
.38	.59	.86	.105	.111	.104	.84	. 56	.36
.52	.98	164	205	_215	202	<u>,157</u>	. 91	.48
.62	.128	.222 	.279 72295	.293. .301 .29	,274 33 ,267;	.210	. 116	_. 56
.62	.127						.115	₋ 56
.53	.103	.172	_• 215	.226	· ²¹²	.164	.95	.49
.39	. 66	.101	.124	.131	.123	.97	.62	.37
.28	.38	.50	.59	.62	_• 58	.49	.37	.28
,22	.26	. ³⁰	, ³³	.34	. ³³	. ³⁰	.26	,22

OPERATIN	IG TABLE	OPERATING AREA				
MAXIMUM	301 fc	MAXIMUM	293 fc			
AVERAGE	285 fc	AVERAGE	97 fc			

PHOTOMETRIC ANALYSIS BASED ON A 3' CALCULATION ZONE, 833 ROOM SQFT & 9' CEILING HEIGHT. ANSI/IES RP-29-16 RECOMMENDS 3000 LUX (279 FC) AT THE OPERATING TABLE

THE CALCULATED VALUES REFLECT ADDITIONAL SPACE LIGHTING BY OTHERS.

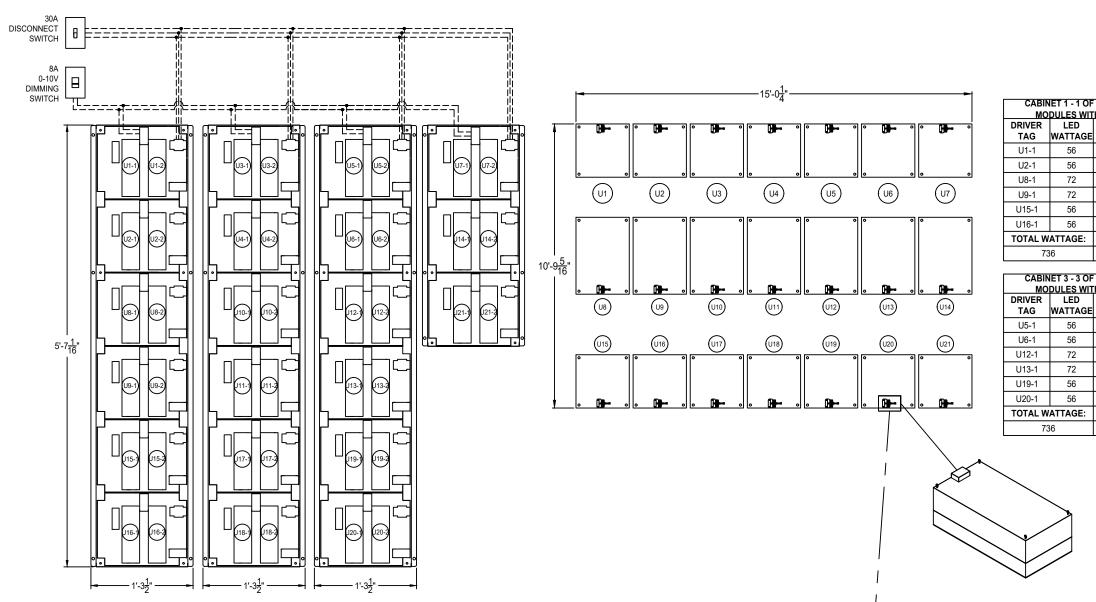
LIGHTING ANALYSIS HAS BEEN PERFORMED USING THIRD PARTY LAB TESTED. IES FILES.
THIS LAYOUT REFLECTS TWO ROWS OF 5000K, 90+ CRI LEDS PER MODULE. A THIRD ROW. HIGH OUTPUT OPTION IS AVAILABLE.

LIGHTING CALCULATIONS ARE ESTIMATED USING BEST PRACTICE AND MAY DIFFER SLIGHTLY FROM ACTUAL FIELD CONDITIONS.

LUMINAIRE HEIGHT: 9 FT CALCULATION ZONE: 3 FT **SUPERSUITE** Project: 274978 Revision: B 08-01-2023

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

O SRDC SUPER REMOTE DRIVER CABINETS - SINGLE DIMMING ZONE (100 TO 1% DIMMING) - HYBRID OR/IMAGING SUITE PRECISION DIMMING OPTION



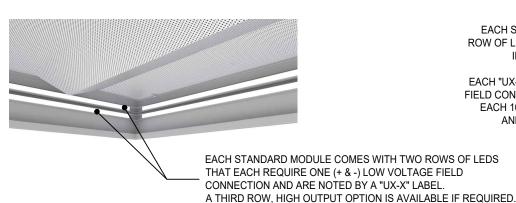
CABINET 1 - 1 OF 4 - CONTROLS 6 MODULES WITH 12 DRIVERS							
DRIVER TAG	LED WATTAGE	DRIVER TAG	LED WATTAGE				
U1-1	56	U1-2	56				
U2-1	56	U2-2	56				
U8-1	72	U8-2	72				
U9-1	72	U9-2	72				
U15-1	56	U15-2	56				
U16-1	56	U16-2	56				
TOTAL W	ATTAGE:	AC CUF	RRENT:				
73	36	4.8A/2	77VAC				

MODULES WITH 12 DRIVERS							
DRIVER TAG	LED WATTAGE	DRIVER TAG	LED WATTAGE				
U3-1	56	U1-2	56				
U4-1	56	U2-2	56				
U10-1	72	U8-2	72				
U11-1	72	U9-2	72				
U17-1	56	U15-2	56				
U18-1	56	U16-2	56				
TOTAL W	TOTAL WATTAGE: AC CURRENT:						
73	36	4.8A/27	77VAC				

CABINET 2 - 2 OF 4 - CONTROLS 6

CABINET 3 - 3 OF 4 - CONTROLS 6 MODULES WITH 12 DRIVERS							
DRIVER TAG	LED WATTAGE	DRIVER TAG	LED WATTAGE				
U5-1	56	U5-1	56				
U6-1	56	U6-2	56				
U12-1	72	U12-2	72				
U13-1	72	U13-2	72				
U19-1	56	U19-2	56				
U20-1	56	U20-2	56				
TOTAL W	ATTAGE:	AC CUI	RRENT:				
73	36	4.8A/2	77VAC				

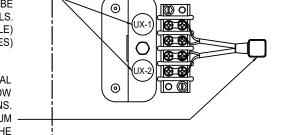
CABINET 4 - 4 OF 4 - CONTROLS 3 MODULES WITH 6 DRIVERS								
DRIVER TAG	LED WATTAGE	DRIVER TAG	LED WATTAG					
U7-1	56	U7-2	56					
U14-1	72	U14-2	72					
U21-1	56	U21-2	56					
TOTAL W	ATTAGE:	AC CUF	RRENT:					
36	88	2.4A/27	77VAC					



EACH STANDARD MODULE COMES WITH 2 ROWS OF LED LIGHTS AND EACH ROW OF LIGHTS IS NOTED BY A "UX-X" LABEL. THE "UX" CORRESPONDS TO AN INDIVIDUAL MODULE REFERENCED IN THE RCP AND THE "-1" AND "-2" CORRESPONDS TO THE ROW OF LEDS FOR THAT MODULE. EACH "UX-X" LABEL CORRESPONDS TO ONE (+ & -) LOW VOLTAGE WIRE TO BE FIELD CONNECTED TO SRDC DRIVER CABINET AS PER THE MATCHING LABELS.

EACH 100W DRIVER CAN POWER 1 ROW OF LEDS (ONE HALF OF A MODULE) AND EACH 600W DRIVER CAN CONTROL 6 ROWS OF LEDS (3 MODULES)

> EACH MODULE COMES WITH A TOP MOUNTED TERMINAL BLOCK ENCLOSURE (COVER NOT SHOWN) FOR LOW **VOLTAGE FIELD CONNECTIONS.** QUICK CONNECT FITTING IS SEALED THROUGH PLENUM AND ALL INTERNAL WIRING IS COMPLETED IN THE FACTORY. EACH ROW OF LEDS REQUIRES ONE (+&-) LOW VOLTAGE FIELD CONNECTIONS (TWO PER MODULE)



SUPERSUITE

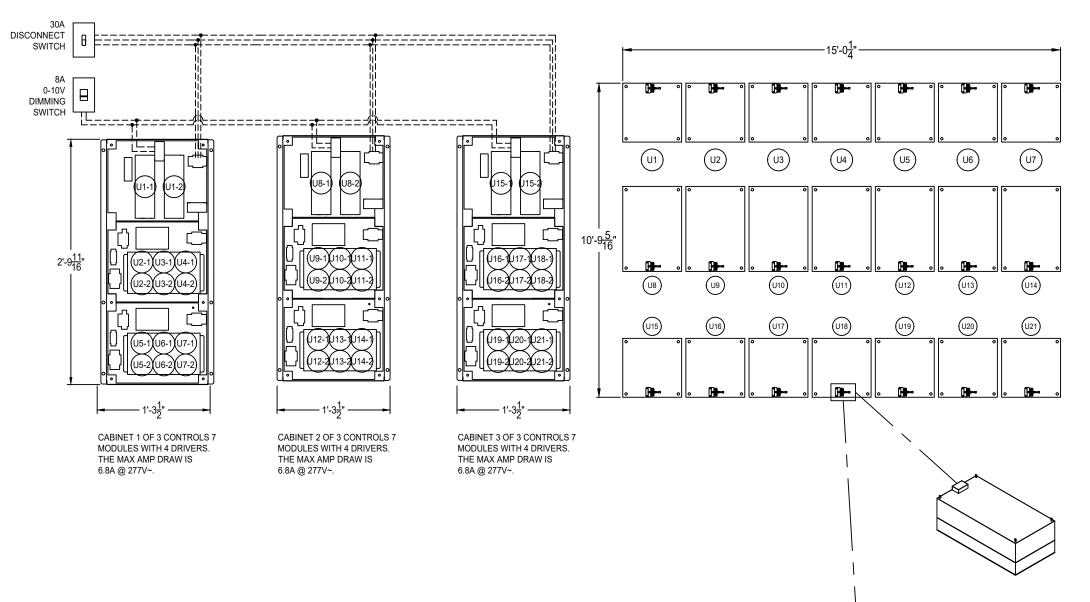
Project:

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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

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

O SRDC SUPER REMOTE DRIVER CABINETS - SINGLE DIMMING ZONE (100 TO 10% DIMMING) - HYBRID OR/IMAGING SUITE COMPACT / SPACE SAVINGS OPTION



CABINET 1 - 1 OF 2 - CONTROLS 6 MODULES WITH 2 DRIVERS								
DRIVER TAG	LED WATTAGE	LED DRIVER LOADING (%)	DRIVER TAG	LED WATTAGE	LED DRIVER LOADING (%)			
U1-1	56	58%	U1-2	56	58%			
U2-1	56		U5-1	56				
U2-2	56		U5-2	56				
U3-1	56	F60/	U6-1	56	56%			
U3-2	56	56%	U6-2	56	50%			
U4-1	56		U7-1	56				
U4-2	56		U7-2	56				
TOTAL W	ATTAGE:	784	AC CUF	6.8A/277VAC				

CABINET 2 - 2 OF 3 - CONTROLS 7 MODULES WITH 4 DRIVERS							
DRIVER TAG	LED WATTAGE	LED DRIVER LOADING (%)	DRIVER TAG	LED WATTAGE	LED DRIVER LOADING (%)		
U8-1	72	75%	U8-2	72	75%		
U9-1	72		U12-1	72			
U9-2	72		U12-2	72			
U10-1	72	72%	U13-1	72	72%		
U10-2	72	12%	U13-2	72	12%		
U11-1	72		U14-1	72			
U11-2	72		U14-2	72			
TOTAL W	ATTAGE:	1008	AC CUF	RRENT:	6.8A/277VAC		

CAB	CABINET 3 - 3 OF 3 - CONTROLS 7 MODULES WITH 4 DRIVERS							
DRIVER TAG	LED WATTAGE	LED DRIVER LOADING (%)	DRIVER TAG	LED WATTAGE	LED DRIVER LOADING (%)			
U15-1	56	58%	U15-2	56	58%			
U16-1	56		U19-1	56				
U16-2	56		U19-2	56				
U17-1	56	56%	U20-1	56	56%			
U17-2	56	3076	U20-2	56	30 %			
U18-1	56		U21-1	56				
U18-2	56		U21-2	56				
TOTAL W	ATTAGE:	784	AC CUF	RRENT:	6.8A/277VAC			

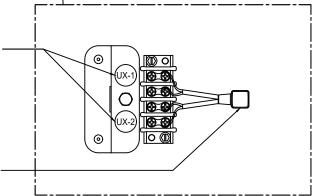
EACH STANDARD MODULE COMES WITH 2 ROWS OF LED LIGHTS AND EACH ROW OF LIGHTS IS NOTED BY A "UX-X" LABEL. THE "UX" CORRESPONDS TO AN INDIVIDUAL MODULE REFERENCED IN THE RCP AND THE "-1" AND "-2" CORRESPONDS TO THE ROW OF LEDS FOR THAT MODULE. EACH "UX-X" LABEL CORRESPONDS TO ONE (+ & -) LOW VOLTAGE WIRE TO BE

FIELD CONNECTED TO SRDC DRIVER CABINET AS PER THE MATCHING LABELS.
EACH 100W DRIVER CAN POWER 1 ROW OF LEDS (ONE HALF OF A MODULE)
AND EACH 600W DRIVER CAN CONTROL 6 ROWS OF LEDS (3 MODULES)

EACH STANDARD MODULE COMES WITH TWO ROWS OF LEDS THAT EACH REQUIRE ONE (+ & -) LOW VOLTAGE FIELD CONNECTION AND ARE NOTED BY A "UX-X" LABEL. A THIRD ROW, HIGH OUTPUT OPTION IS AVAILABLE IF REQUIRED.

EACH MODULE COMES WITH A TOP MOUNTED TERMINAL BLOCK ENCLOSURE (COVER NOT SHOWN) FOR LOW VOLTAGE FIELD CONNECTIONS.

QUICK CONNECT FITTING IS SEALED THROUGH PLENUM AND ALL INTERNAL WIRING IS COMPLETED IN THE FACTORY. EACH ROW OF LEDS REQUIRES ONE (+&-) LOW VOLTAGE FIELD CONNECTIONS (TWO PER MODULE)



SUPERSUITE

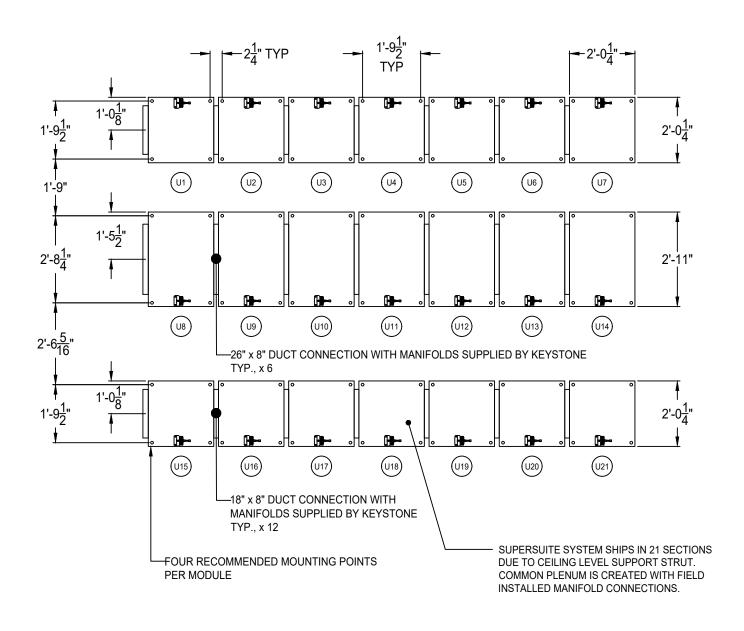
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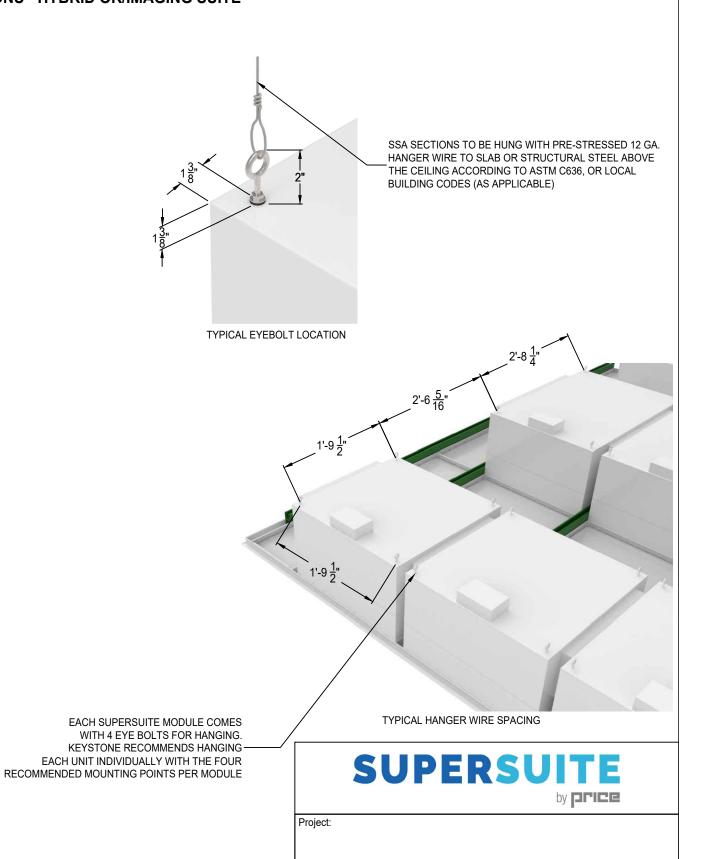
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INSTALLATION WORK AND ELECTRICAL WIRING MUST BE COMPLETED BY A CERTIFIED ELECTRICIAN AND/OR QUALIFIED PERSON(S) IN ACCORDANCE WITH APPLICABLE ELECTRICAL CODES AND STANDARDS

ght Keystone Clean Air Solutions 2023

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING SUPERSUITE SHIP SECTION BREAKDOWN & HANGING LOCATIONS - HYBRID OR/IMAGING SUITE





274978

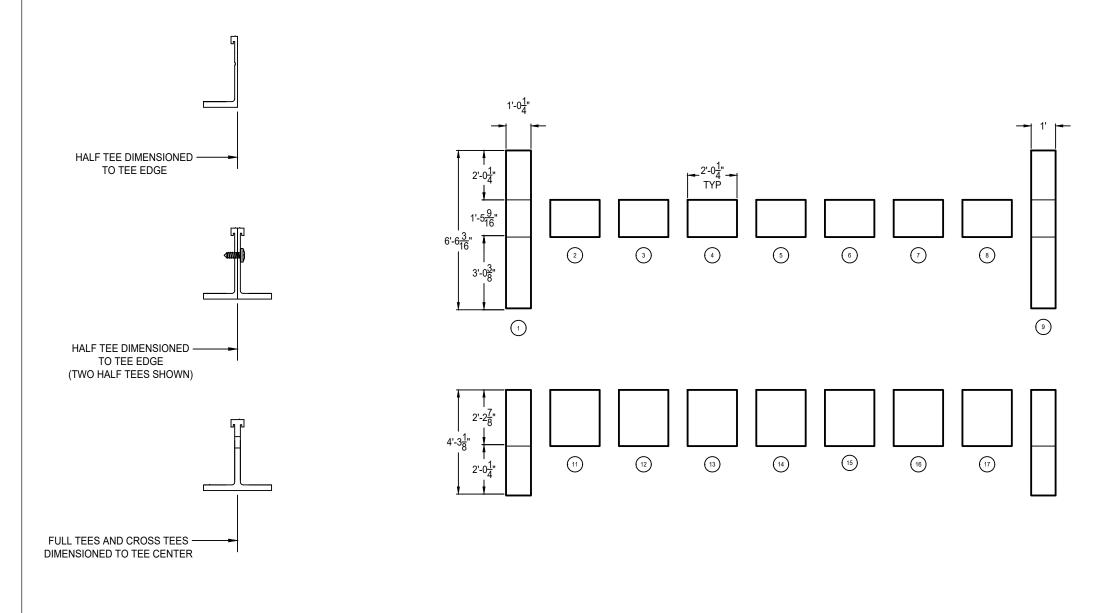
Revision: B

08-01-2023

SUPERSUITE SHIPS IN FACTORY WELDED SHIP SECTIONS TO BE FASTENED TOGETHER IN THE FIELD BY OTHERS
 MOUNTING LOCATIONS ARE SHOWN FOR REFERENCE ONLY. EXACT MOUTING LOCATIONS TO BE DETERMINED BY THE EOR OR INSTALLER ON THE PROJECT AND MUST COMPLY WITH ALL APPLICABLE CODES AND STANDARDS.

ght Keystone Clean Air Solutions 2023

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING APEX SHIP SECTION BREAKDOWN & HANGING DETAILS - HYBRID OR/IMAGING SUITE



WITH PRE-STRESSED 12 GA. HANGER WIRE TO SLAB OR TRUCTURAL STEEL ABOVE THE CEILING ACCORDING TO ASTM C636, OR LOCAL BUILDING CODES (AS APPLICABLE) TYPICAL HANGER WIRE LOCATION EACH APEX FULL TEE & CROSS TEE COME WITH PRE-PUNCHED SLOTS EVERY 6" PRICE RECOMMENDS HANGING

APEX SECTIONS TO BE HUNG





APEX SECTIONS TO BE HUNG WITH PRE-STRESSED 12 GA. HANGER WIRE TO SLAB OR STRUCTURAL STEEL ABOVE THE CEILING ACCORDING TO ASTM C636, OR LOCAL BUILDING CODES (AS APPLICABLE) KEYSTONE RECOMMENDS MAXIMUM DISTANCE BETWEEN HANGER WIRE TO BE ~48" ALL FULL TEES AND CROSS TEES FACTORY PUNCHED

SUPERSUITE

SYSTEM EVERY ~4' AS REQUIRED

Project:

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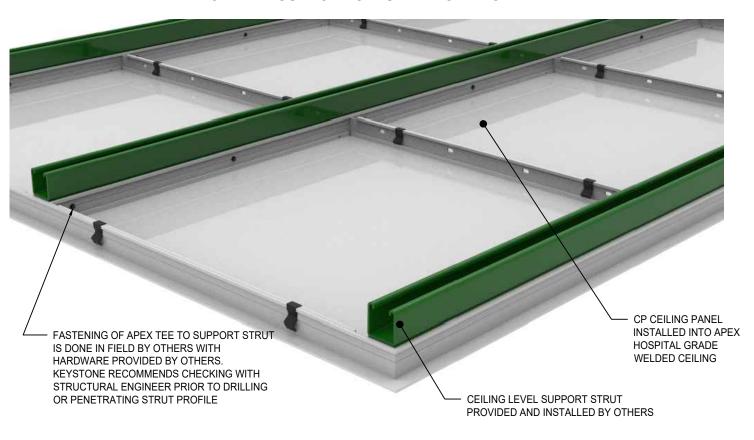
• THE APEX GRID IS SUPPLIED IN MULTIPLE FACTORY ASSEMBLED SECTIONS NO LARGER THAN 10'x4'

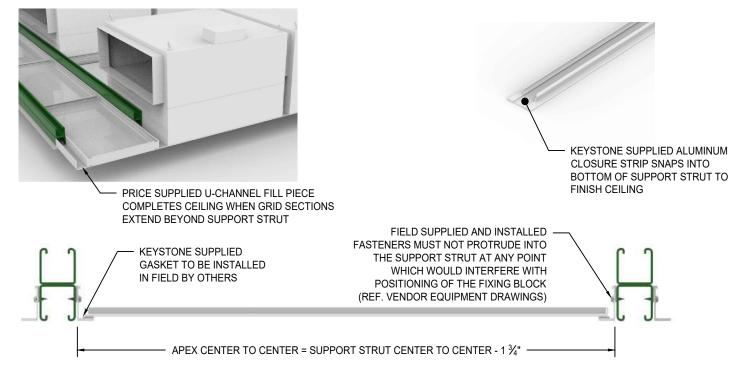
• THE CEILING IS FACTORY PRE-MANUFACTURED TO SIZES AND TOLERANCE +/- 16"

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

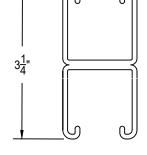
CEILING LEVEL SUPPORT STRUT INTEGRATION DETAIL

CEILING LEVEL SUPPORT STRUT LAYOUT - HYBRID OR/IMAGING SUITE

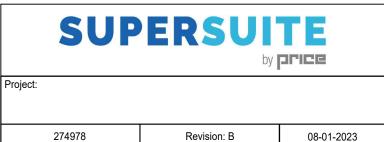




CEILING LEVEL SUPPORT STRUT = 90 ft.

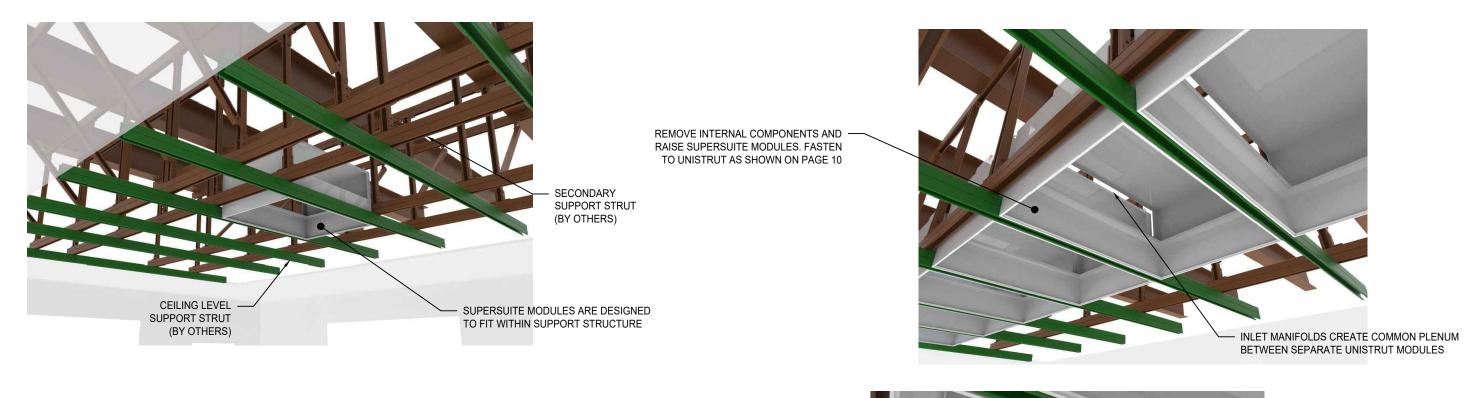


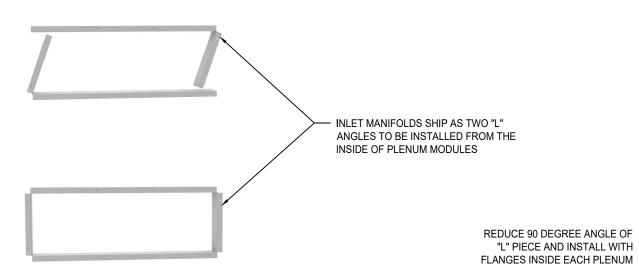
CEILING LEVEL SUPPORT STRUT HEIGHT, GC/AHJ TO COORDINATE, AND ADVISE KEYSTONE OF ANY DISCREPANCIES OR **DEVIATIONS**



- CEILING SYSTEM SUPPORT STRUT GRID AND ALL SECONDARY SUPPORT TO STRUCTURE TO BE DESIGN, COORDINATED, PROVIDED, AND INSTALLED BY OTHERS
 CEILING LEVEL SUPPORT STRUT INTEGRATION DETAILS REPRESENT PRICE RECOMMENDATIONS AND BEST PRACTICE.
 KEYSTONE CEILING SYSTEM HAS BEEN DESIGNED TO INTEGRATE WITH CEILING LEVEL SUPPORT STRUT LAYOUT AS SHOWN. GC/AHJ TO COORDINATE, AND ADVISE KEYSTONE OF ANY DISCREPANCIES OR DEVIATIONS

OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING **INLET MANIFOLD INSTALLATION DETAILS**





FASTEN MANIFOLDS TO SUPERSUITE PLENUM USING PILOT HOLES WITH SELF TAPPING SCREWS PROVIDED BY OTHERS

SUPERSUITE

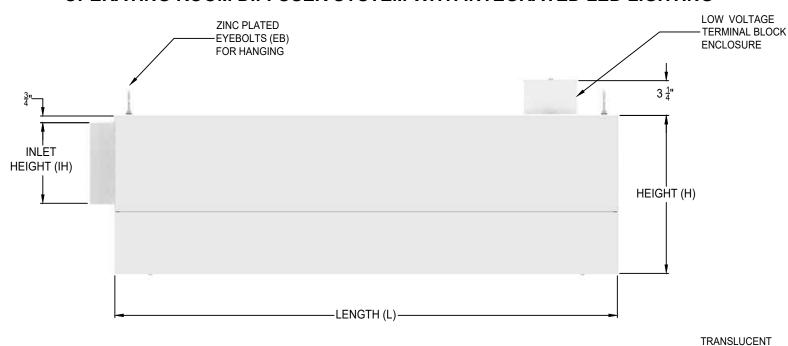
- CEILING SYSTEM SUPPORT STRUT GRID AND ALL SECONDARY SUPPORT TO STRUCTURE TO BE DESIGN, COORDINATED, PROVIDED, AND INSTALLED BY OTHERS
 CEILING LEVEL SUPPORT STRUT INTEGRATION DETAILS REPRESENT PRICE RECOMMENDATIONS AND BEST PRACTICE.
 KEYSTONE CEILING SYSTEM HAS BEEN DESIGNED TO INTEGRATE WITH CEILING LEVEL SUPPORT STRUT LAYOUT AS SHOWN. GC/AHJ TO COORDINATE, AND ADVISE KEYSTONE OF ANY DISCREPANCIES OR DEVIATIONS

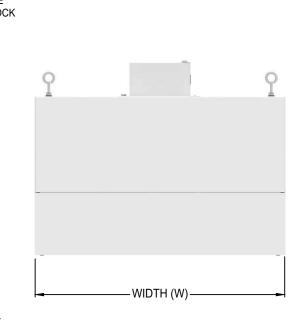
CLICK HERE FOR 3D MODEL

	by	price
Project:		
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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
 - OPTIONAL GALVANIZED BRACKETS FOR HANGING
- OPTIONAL SEISMIC BRACKETS AVAILABLE FOR SEISMIC CERTIFICATION PRE-APPROVAL AS PER OSP-0627-10
- ROOM-SIDE ADJUSTABLE APERTURE PLATE DAMPER
- TWO STAINLESS STEEL RETAINER CABLES PER DIFFUSER FACE
- DIFFUSER FACE SECURED WITH ¹/₄ TURN FASTENERS

LED LIGHTING SPECIFICATIONS

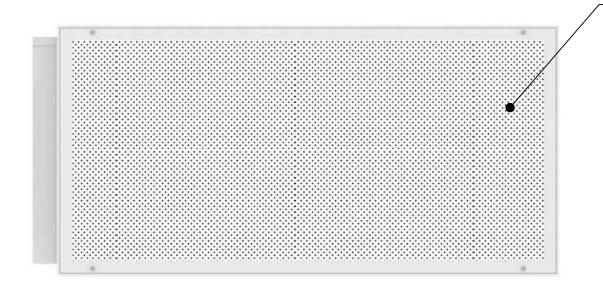
- LED LIGHTING INTEGRATED INTO EACH DIFFUSER MODULE
- IP67 RATED LED STRIP WITH QUICK CONNECTORS
- COLOR RENDERING INDEX (CRI) 95
- L80>60,000 HRS
- FOR IES PHOTOMETRIC FILES VISIT:
- https://keystonecleanair.com/supersuite/

- OPTIONAL AMB12 ANTI-MICROBIAL WHITE

LED COLOR TEMPERATURE

- 5000K (W935)
- OPTIONAL 4000K (W930)

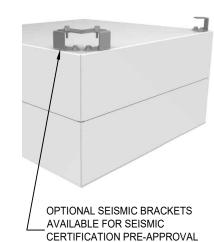
- UL 1598/CSA C22.2 #250.0 AIR-HANDLING LUMINAIRES
- UL 2043 FIRE TEST FOR HEAT AND VISIBLE SMOKE RELEASE FOR DISCRETE PRODUCTS AND THEIR ACCESSORIES INSTALLED IN AIR-HANDLING SPACES
- UL 2108/CSA 22.2#250.0 LOW VOLTAGE LIGHTING SYSTEM
- UL 8750/CSA-C22.2 #250.13 LIGHT EMITTING DIODE (LED) EQUIPMENT FOR USE IN LIGHTING PRODUCTS
- UL 1310/CSA C22.2 #223-M91 CLASS 2 POWER UNITS
- UL 94 FLAMMABILITY OF PLASTIC MATERIALS FOR PARTS IN DEVICES AND APPLIANCES
- IP 67 RATED INGRESS PROTECTION AGAINST DUST AND LIQUIDS
- MIL-STD-461 ELECTROMAGNETIC COMPATIBILITY
- OSP-0627-10 SEISMIC PRE-APPROVAL





POLYMER PERFORATED DIFFUSER FACE

13% FREE AREA



AS PER OSP-0627-10

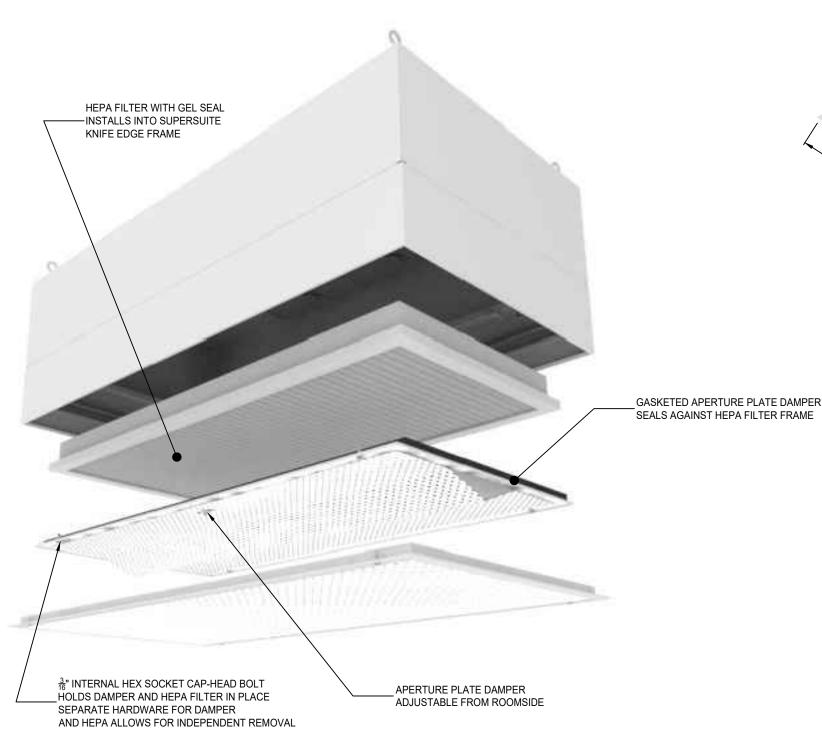
STANDARD MODULE SIZING CHART							
-		_	CTUAL ACTUAL	HEIGHT (H)			
(W)	(L)	(W)	(L)	MIN	MAX		
24.000	24.000	24.250	24.250	10	20		
24.000	34.000	24.250	34.000	10	20		

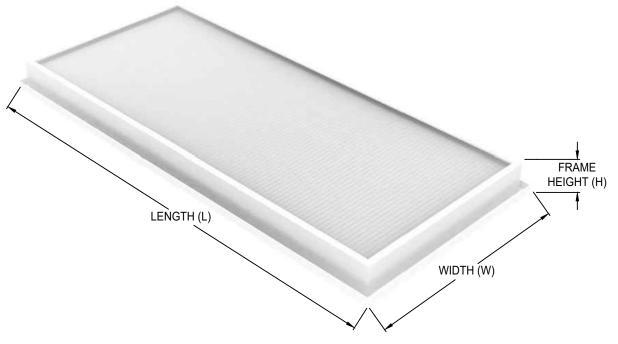
- STANDARD HEIGHT (H) = 15" MINIMUM HEIGHT WITH HEPA FILTER = 12"
- MINIMUM WIDTH WITH HEPA FILTER =12"
- MAX INLET HEIGHT (IH) = HEIGHT (H) 7" MAX INLET HEIGHT (IH) WITH HEPA = HEIGHT (H) - 8"

KEYSTONE CEILING SYSTEM WEIGHTS						
KEYSTONE	TOTAL					
SUPPLIED	SQUARE FEET	789 lbs.				
COMPONENTS	=265 SQ.FT.					
SSA	98 SQ.FT.	686 lbs.				
APEX	91 SQ.FT.	46 lbs.				
PANELS	76 SQ.FT.	57 lbs.				
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OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING **FACE ACCESS APERTURE PLATE DAMPER DETAILS** • OPTIONAL ROOMSIDE HEPA FILTRATION





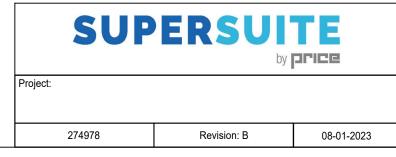
STANDARD FILTER SIZING CHART							
REPLACEMENT PART #	NOMINAL (W)	NOMINAL (L)	ACTUAL (W)	ACTUAL (L)			
042299-029	24	24	19.88	19.88			
SPECIAL	24	35	19.88	30.63			

NOTES:

- FILTER PLEATS RUN PARALLEL TO THE WIDTH (W) DIMENSION
- DIMENSIONS W & L TOLERANCES +/- 16"
- FILTERS COME WITH GEL SEAL FILLED CHANNEL
- FILTERS MUST BE ORDERED SEPARATELY UNDER THE VANGUARD-1-X LINESTRING

FRAME DETAILS:

- MATERIAL: ANODIZED EXTRUDED ALUMINUM
- THICKNESS: 1/16" (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"

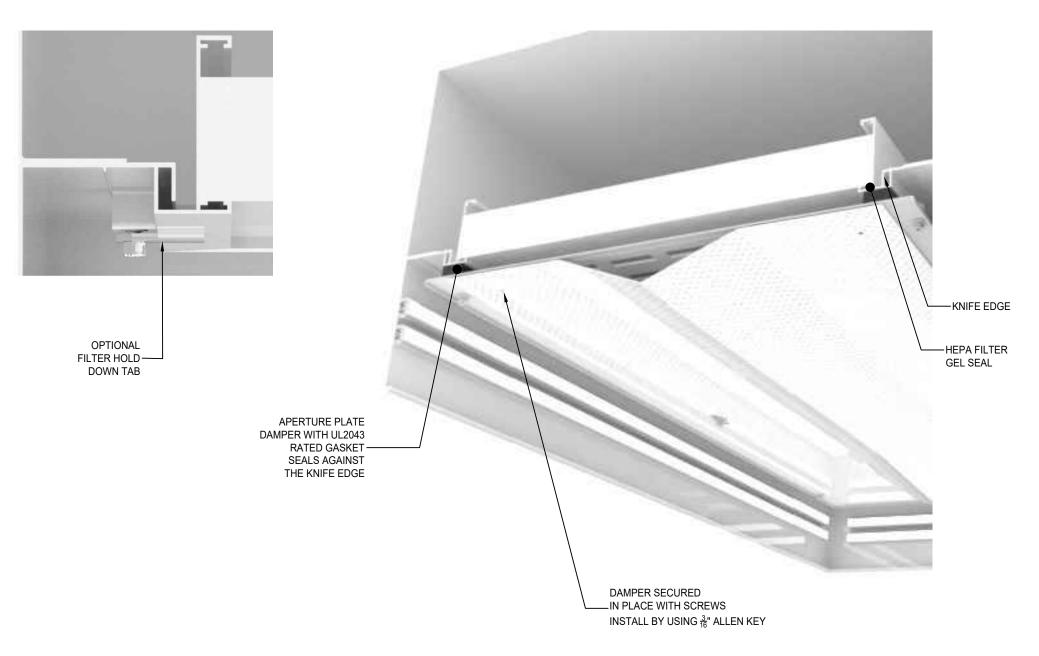


VISIT KEYSTONE WEBSITE FOR FILTER QUICK START GUIDE https://keystonecleanair.com/home/products/

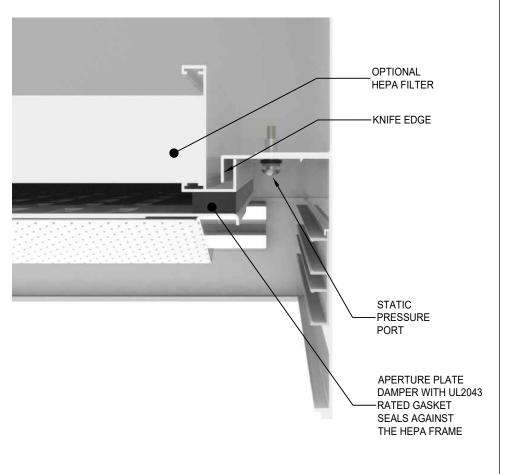
UL 1598 DOES NOT HAVE PROVISIONS FOR HEPA FILTERS MOUNTED WITHIN FIXTURE. SSA COMPLIES WITH UL 1598 WITH HEPA FILTERS ORDERED SEPERATELY ON VANGUARD-1-X LINESTRING.

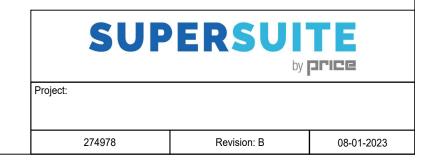
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING FACE ACCESS APERTURE PLATE DAMPER DETAILS OPTIONAL ROOMSIDE HEPA FILTRATION

FILTER HOLD DOWN TAB DETAIL



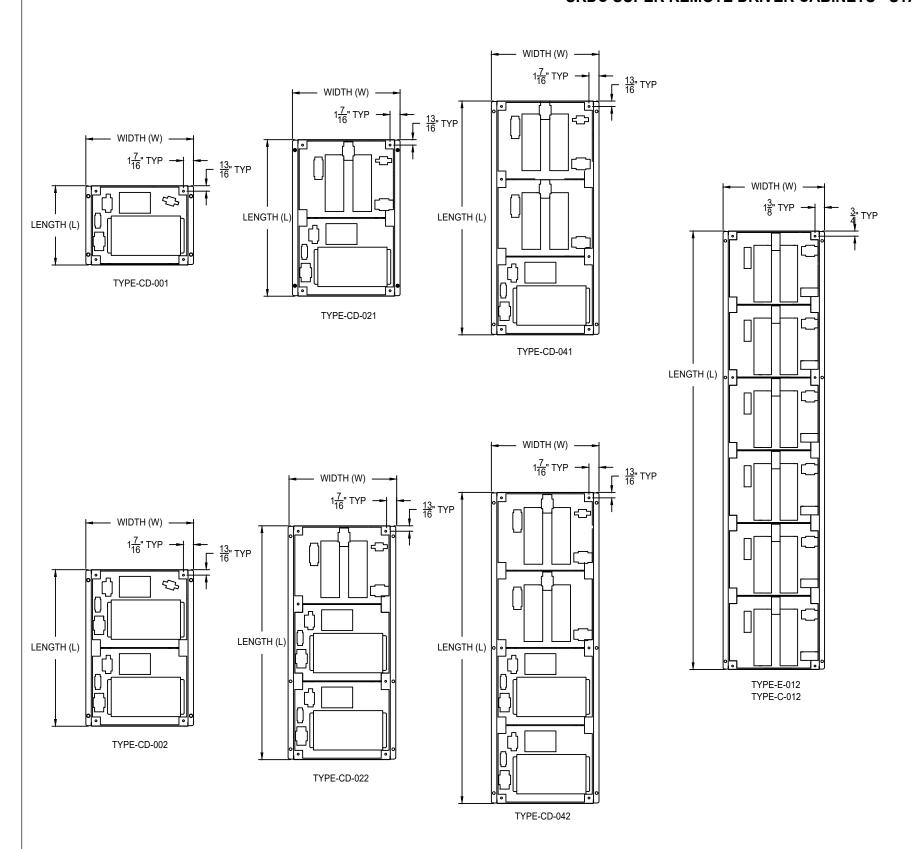
STATIC PRESSURE PORT DETAIL





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OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING SRDC SUPER REMOTE DRIVER CABINETS - STANDARD OFFERINGS



- ALL DRIVER CABINETS ARE ORDERED ON SRDC-1-X LINESTRING.
- REMOTE DRIVER CABINETS REQUIRE SINGLE POINT HIGH VOLTAGE (120-277v~) CONNECTION (277V~ RECOMMENDED)
- ALL DIMMING SWITCHES ARE ORDERED ON SCA-1-X LINESTRING.
- 0-10V DIMMING SWITCH SHIPPED LOOSE. THE TOTAL LENGTH FOR 0-10V CONTROL SIGNAL WIRING FOR THIS CONTROL SHOULD NOT EXCEED 500'. DO NOT USE WIRE SMALLER THAN 20 AWG.
- 8A AND 16A 0-10V DIMMING SWITCHES AVAILABLE. DIMMING ZONES AND CONTROL ARE COMPLETELY CUSTOMIZABLE.
- 0-10V DIMMING SIGNAL FROM SWITCH CAN CONTROL UP TO 100 DRIVERS.
- LED DRIVER TYPE E OFFERS CONTINUOUS, FLICKER-FREE DIMMING FROM 100% TO 1% WITH 0-10 VOLTAGE DIMMER SHIPPED LOOSE OR DIMMING SIGNAL PROVIDED BY OTHERS.
- LED DRIVER TYPE C AND CD OFFERS CONTINUOUS, FLICKER-FREE DIMMING FROM 100% TO 10% WITH 0-10 VOLTAGE DIMMER SHIPPED LOOSE. OPTIONAL SOLID STATE RELAY WITH 4-32VDC RELAY SHUT OFF SIGNAL AND 0-10VDC DIMMING SIGNAL PROVIDED BY OTHERS
- 30A DISCONNECT SWITCH AVAILABLE TO PROVIDE FULL SYSTEM SHUTOFF WHEN UTILIZING 0-10V SIGNAL
- LED DRIVERS SHIP FACTORY WIRED AND INSTALLED IN REMOTE DRIVER CABINETS.
- SRDC DRIVER CABINETS CAN BE WALL MOUNTED, TYPICALLY IN AN ADJACENT EQUIPMENT ROOM, OR INSTALLED
 ABOVE THE CEILING. DRIVER CABINETS CANNOT BE RECESSED BETWEEN WALL STUDS AS THEY REQUIRE
 VENTILATION.
- SUPERSUITE MODULES COME WITH FACTORY WIRED AND INSTALLED TOP MOUNTED LOW VOLTAGE TERMINAL BLOCK ENCLOSURE
- INCOMING HIGH VOLTAGE POWER AND LOW VOLTAGE CONNECTION BETWEEN SUPERSUITE MODULES AND REMOTE DRIVER CABINET ARE THE RESPONSIBILITY OF THE INSTALLER.
- MAX DISTANCE BETWEEN SUPERSUITE MODULE AND REMOTE DRIVER CABINET IS DEPENDANT ON WIRE GAUGE TO MINIMIZE VOLTAGE DROP. SEE TABLE BELOW.
- SEE SUPERSUITE INSTALLATION MANUAL AVAILABLE AT
- https://keystonecleanair.com/supersuite/
- FOR RECOMMENDED REMOTE DRIVER CABINET AND SUPERSUITE SYSTEM INSTALLATION.

DRIVER CABINET	# OF MODULES	# OF DRIVERS	L	w	н	WEIGHT	AC CURRENT - TYPE E (120VAC / 277VAC)	AC CURRENT - TYPE C (120VAC / 277VAC)
TYPE E/C-001	1	1	0'-11 1/2"	1' - 3 ½"	5"	7 lbs.	0.95A / 0.4A	1.2A / 0.50A
TYPE E/C-002	'	2	0'-11 1/2"	1' - 3 ½"	5"	15 lbs.	1.9A / 0.8A	2.4A / 1.7A
TYPE E/C-003	2	3	1' - 10 ⁹ / ₁₆ "	1' - 3 ½"	5"	22 lbs.	2.95A / 1.2A	3.6A / 2.9A
TYPE E/C-004		4	1' - 10 ⁹ / ₁₆ "	1' - 3 ½"	5"	30 lbs.	3.8A / 1.6A	4.8A / 4.1A
TYPE E/C-005	3	5	2' - 9 11 "	1' - 3 ½"	5"	37 lbs.	4.75A / 2A	6.0A / 5.3A
TYPE E/C-006	٥	6	2' - 9 11 "	1' - 3 ½"	5"	45 lbs.	5.7A / 2.4A	7.2A / 6.5A
TYPE E/C-007	4	7	3' - 8 13 "	1' - 3 ½"	5"	52 lbs.	6.65A / 2.8A	8.4A / 7.7A
TYPE E/C-008	4	8	3' - 8 13 "	1' - 3 ½"	5"	60 lbs.	7.6A / 3.2A	9.6A / 8.9A
TYPE E/C-009	5	9	4' - 7 15 ₁₆ "	1' - 3 ½"	5"	67 lbs.	8.55A / 3.6A	10.8A / 10.1A
TYPE E/C-010	J	10	4' - 7 15 ₁₆ "	1' - 3 ½"	5"	75 lbs.	9.5A / 4A	12.0A / 11.3A
TYPE E/C-011	6	11	5' - 7 1/16"	1' - 3 ½"	5"	82 lbs.	10.45A / 4.4A	13.2A / 12.5A
TYPE E/C-012	U	12	5' - 7 16"	1' - 3 ½"	5"	90 lbs.	11.4A / 4.8A	14.4A / 13.7A

DRIVER CABINET	# OF MODULES	# OF DRIVERS	L	w	н	WEIGHT	AC CURRENT - TYPE E (120VAC / 277VAC)
TYPE-CD-001	3	1	0'-11 1/2"	1' - 3 ½"	5"	20 lbs.	7A / 2.9A
TYPE-CD-021	4	3	1' - 10 ⁹ / ₁₆ "	1' - 3 ½"	5"	35 lbs.	9.4A / 3.9A
TYPE-CD-041	5	5	2' - 9 11 "	1' - 3 ½"	5"	50 lbs.	11.8A /4.9A
TYPE-CD-002	6	2	1' - 10 ⁹ / ₁₆ "	1' - 3 ½"	5"	40 lbs.	14.0A / 5.8A
TYPE-CD-022	7	4	2' - 9 11 "	1' - 3 ½"	5"	55 lbs.	- / 6.8A
TYPE-CD-042	8	6	3' - 8 13 "	1' - 3 ½"	5"	70 lbs.	- / 7.8A

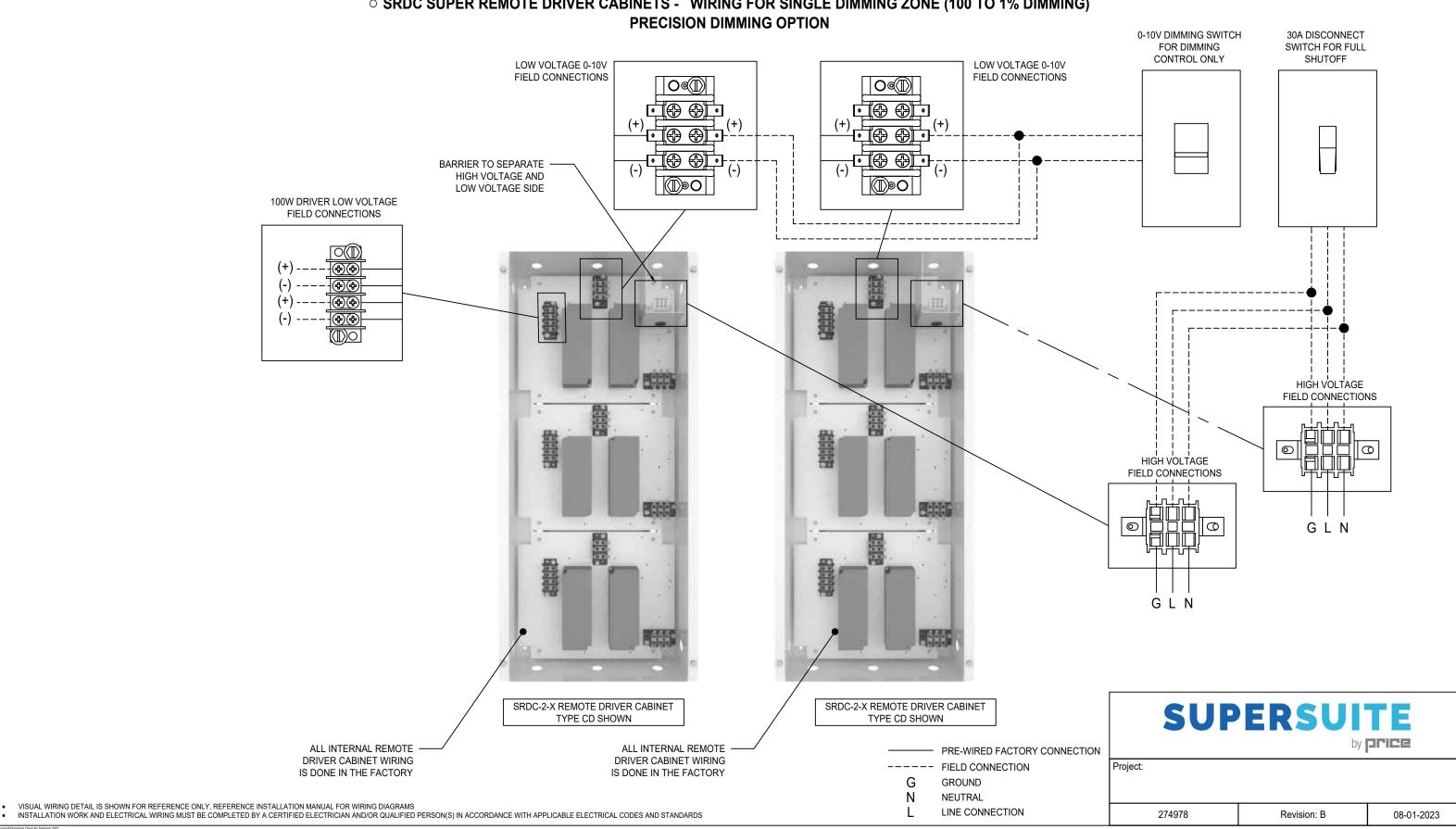
- TYPE C & CD OFFERS 100 TO 10% DIMMING
- TYPE E OFFERS 100 TO 1% DIMMING
- TYPE CD OFFERS OVER 40% SPACE SAVING FOR CABINET INSTALLATION
- TYPE C ALLOWS FOR RECESSED TYPE IC INSTALLATION TYPE E & CD ALLOWS FOR SURFACE, WALL OR CEILING
- MOUNT INSTALLATION. PASSIVE VENTILATION OF CABINET IS REQUIRED THROUGH OUTER BOX LOUVERS



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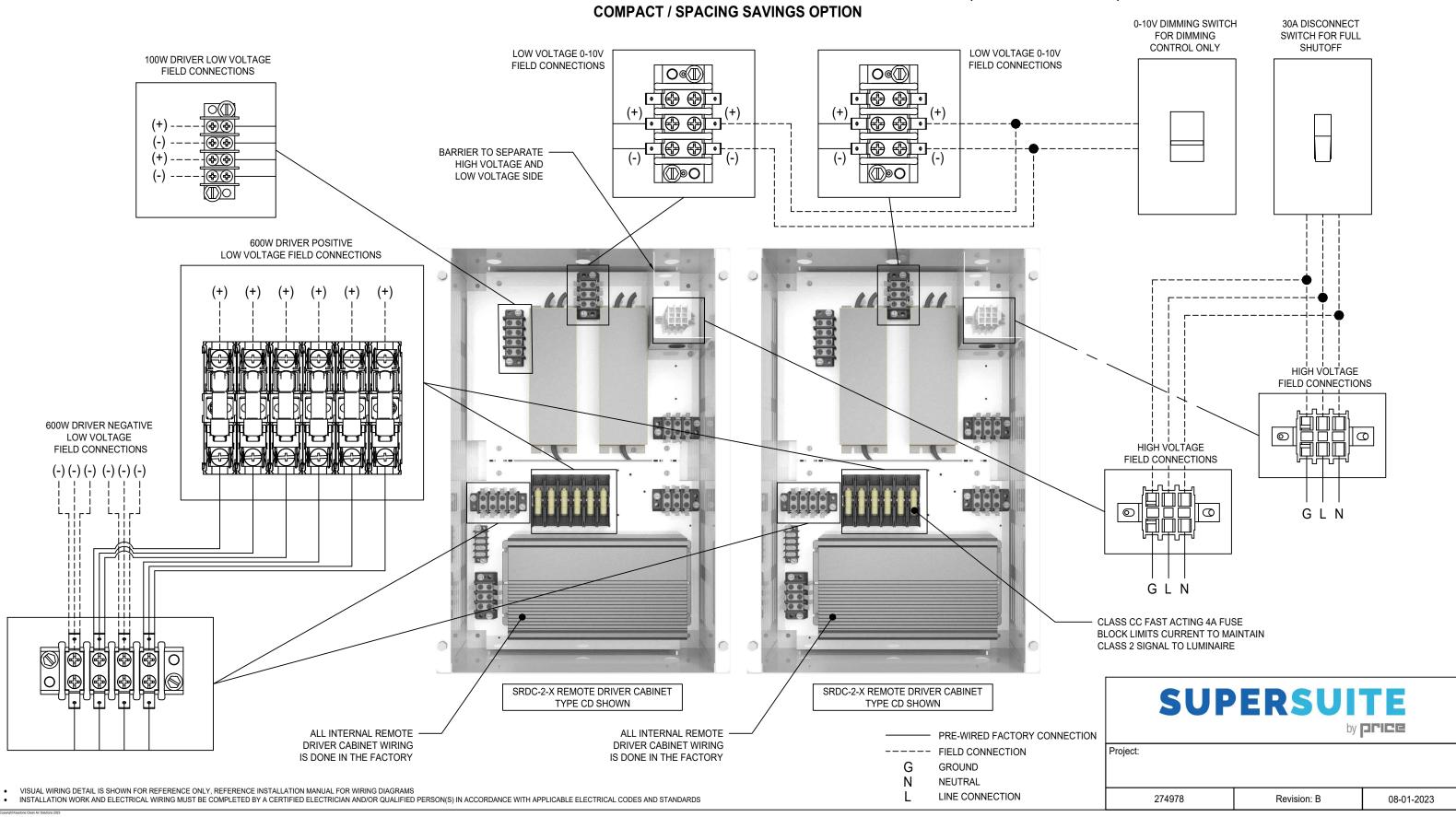
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OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING • SRDC SUPER REMOTE DRIVER CABINETS - WIRING FOR SINGLE DIMMING ZONE (100 TO 1% DIMMING)

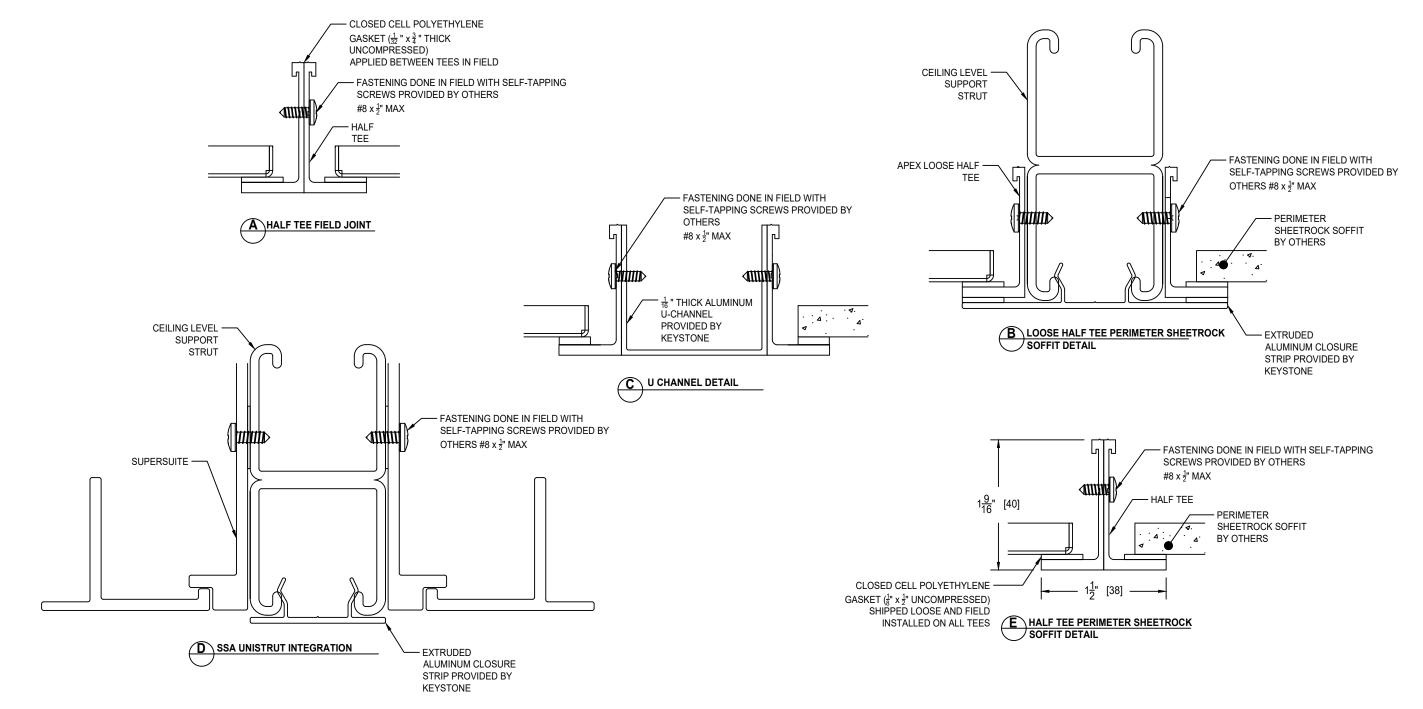


OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

O SRDC SUPER REMOTE DRIVER CABINETS - OPTIONAL WIRING FOR INGLE DIMMING ZONE (100 TO 10% DIMMING)
COMPACT / SPACING SAVINGS OPTION



OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING APEX INTEGRATION DETAILS

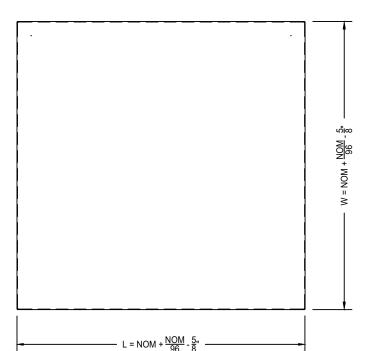


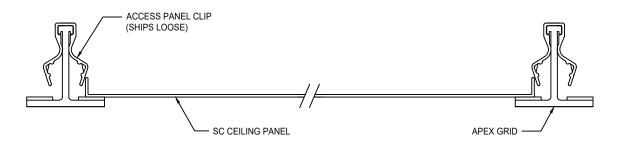
SUPERSUITE				
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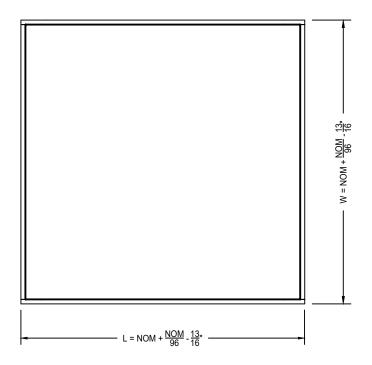
OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING

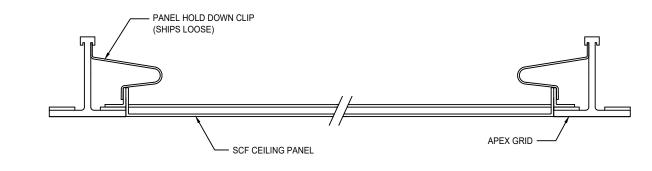
SC - SOLID CORE

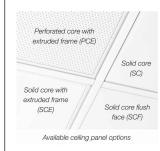




SCF - SOLID CORE WITH FLUSH MOUNT FRAME





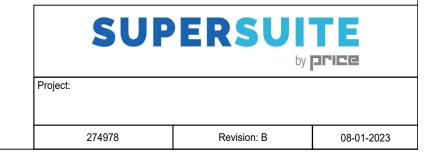


PANEL MATERIAL / FINISH:

- SC PANEL .080" ALUMINUM / B12 STANDARD WHITE
- SCF PANEL .040" ALUMINUM / B12 STANDARD WHITE

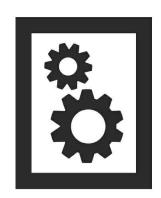
CEILING TYPE:

APEX - 1 ½" HOSPITAL GRADE WELDED CEILING SYSTEM



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OPERATING ROOM DIFFUSER SYSTEM WITH INTEGRATED LED LIGHTING SUPPORTING CONTENT



MANUALS

SSA SUPERSUITE MANUAL
VANGUARD ROOM-SIDE REPLACEABLE FILTER (RSR) QUICK START GUIDE
SRDC SUPER DRIVER CABINET MANUAL
SCA SUPER COMPONENTS AND ACCESSORIES MANUAL

APEX WELDED CEILING SYSTEM WITH INTEGRATED UNISTRUT SYSTEM MANUAL



SUBMITTALS

VANGUARD REPLACEMENT FILTER SUBMITTAL APEX WELDED CEILING SYSTEM SUBMITTAL



CATALOG / PERFORMANCE

SSA SUPERSUITE CATALOG
SSA SUPERSUITE PERFORMANCE



VIDEOS

SSA SUPERSUITE LAUNCH VIDEO
SSA SUPERSUITE INSTALLATION TIME LAPSE VIDEO
SSA SUPERSUITE SMOKE TEST VIDEO



REVIT FILES

SSA HYBRID OR/IMAGING SUITE REVIT FILE



FOR MORE INFORMATION ON KEYSTONE SUPERSUITE SYSTEMS, VISIT KEYSTONECLEANAIR.COM



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