

Job Name:	
Tag#	



## Submittal Data Sheet

FTK12AXVJU / RK12AXVJU

1-Ton Wall Mounted Cooling Only System



Complete warranty details available from your local dealer or at [www.daikincomfort.com](http://www.daikincomfort.com). To receive the 12-Year Parts Limited Warranty, online registration must be completed within 60 days of installation. Online registration is not required in California or Quebec. If product is installed in a commercial application, limited warranty period is 5 years.

### Indoor Specifications

Airflow Rate (cfm)	Cooling	
	H	M
	436	316
	L	SL
	247	132
Sound (dBA) H / M / L / SL	45 / 37 / 31 / 19	
Dimensions (H x W x D) (in)	11-1/3 x 30-29/32 x 9-27/32	
Weight (Lbs)	22	

### Outdoor Specifications

Compressor	Hermetically Sealed Swing Type	
Refrigerant	R-410A	
Factory Charge (Lbs)	2.09	
Refrigerant Oil	PVE (FVC50K)	
Airflow Rate (cfm)	Cooling	
	H	1,051
Sound Pressure Level (dBA)	49	
Dimensions (H x W x D) (in)	21-11/16 x 26-1/2 x 11-3/16	
Weight (Lbs)	62	

### Efficiency

Cooling	
SEER	19
EER	12.5

### Performance

Cooling (Btu/hr)	
Rated (Min/Max)	10,900 (4,400 / 13,300)
Sensible @ AHRI	9,090
Moisture Removal gal/h	.19
Standard Operating Range	50°F – 115°F
Extended Operating Range*	-4°F – 115°F

Rated Cooling Conditions: Indoor: 80°F DB/67°F WB  
Outdoor: 95°F DB/75°F WB

\*With field settings and wind baffle

### Electrical

	208/60/1	230/60/1
System MCA	7.8	7.8
System MFA	15.0	15.0
Compressor RLA	7.5	7.5
Outdoor fan motor FLA	.47	.47
Outdoor fan motor W	41	41
Indoor fan motor FLA	.36	.36
Indoor fan motor W	38	38

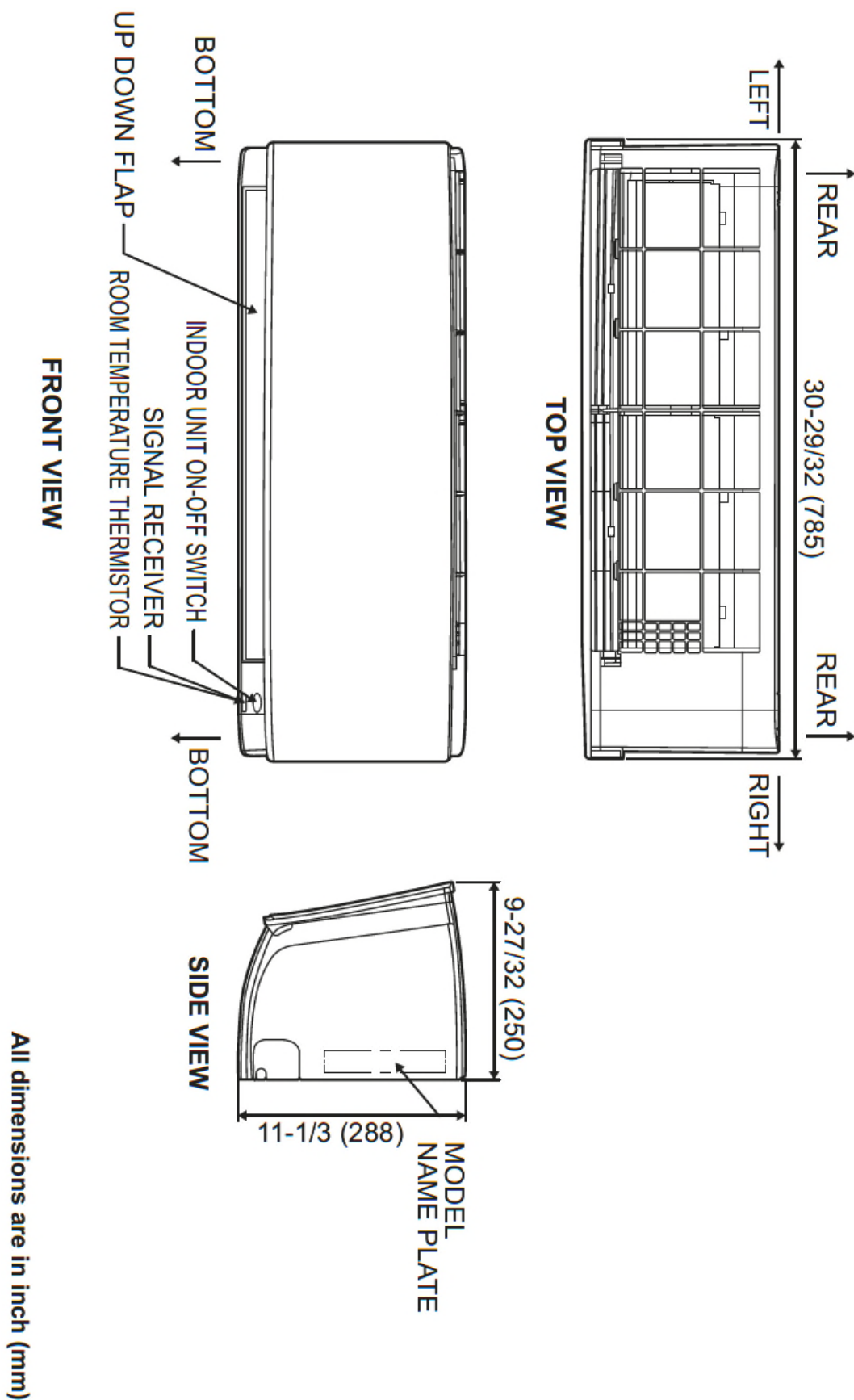
MFA: Max. fuse amps MCA: Min. circuit amps (A) FLA: Full load amps (A)  
RLA: Rated load amps (A) W: Fan motor rated output (W)

### Piping

Liquid (in)	1/4
Gas (in)	3/8
Drain (in)	3/4
Max. Interunit Piping Length (ft)	65.625
Max. Interunit Height Difference (ft)	49.25
Chargeless (ft)	32.8
Additional Charge of Refrigerant (oz/ft)	.21

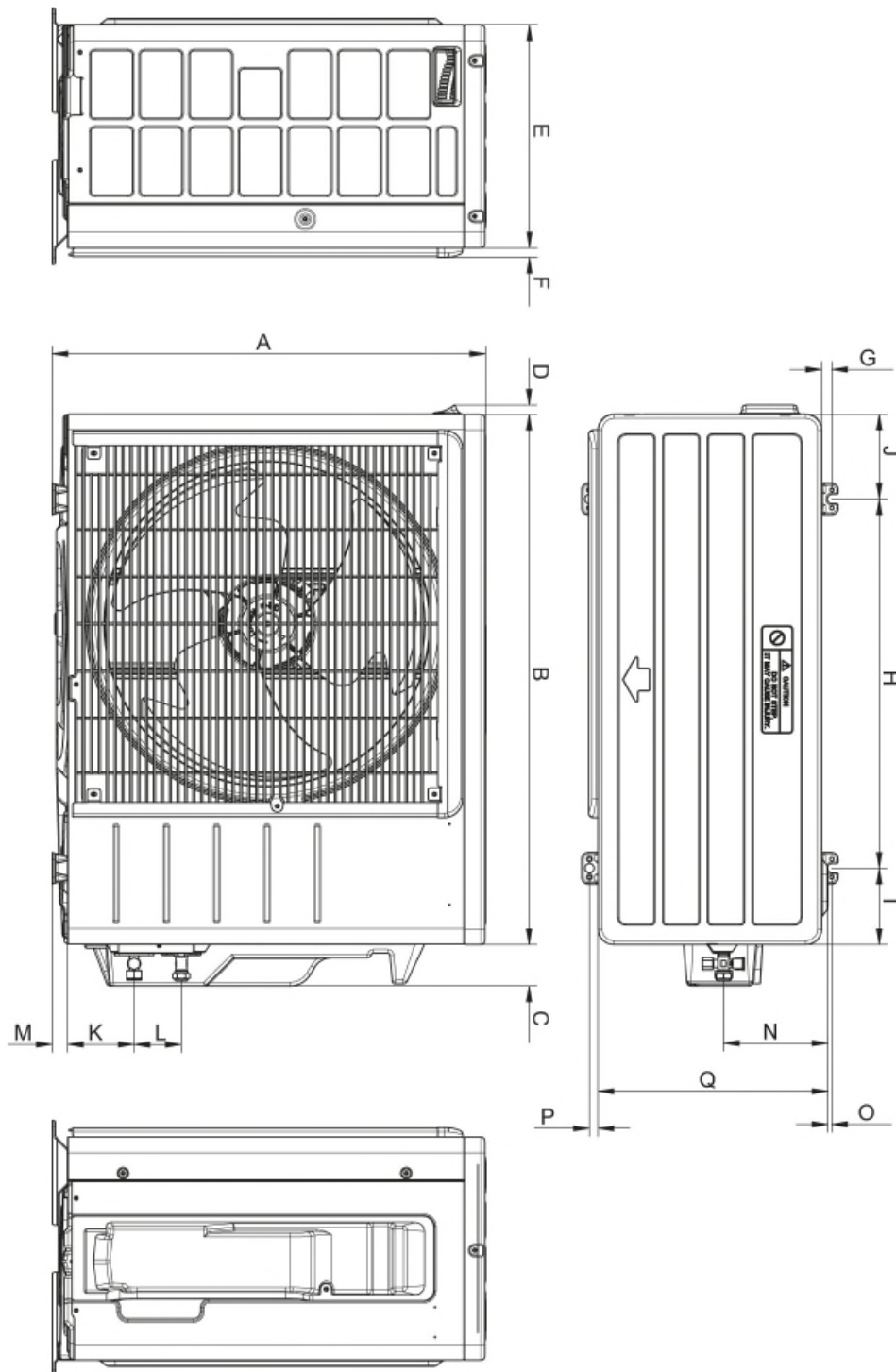
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Dimension		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Model																		
09/12		21-11/16 (550)	26-1/2 (675)	2-1/16 (53)	15/32 (12)	11-3/16 (284)	15/32 (12)	1/2 (13)	18-1/2 (470)	3-13/16 (97)	4-1/4 (108)	3-3/8 (86)	2-3/8 (60)	25/32 (20)	5-1/4 (133)	3/16 (5)	7/16 (11)	11-1/2 (292)

**All dimensions are in inch (mm)**



Indoor Unit		
Included	Part Number	Description
	BRP072A43	Wireless Interface Adaptor
	AZAI6WSCDKB	DKN Residential Cloud Wi-Fi Adaptor for Single- and Multi-Zone System (S21)
	BRC944B2-A08	Wired Remote Controller kit
	BRCW901A08	Wired Remote Controller Cable – 25ft (Included in above kit)
	BRCW901A03	Wired Remote Controller Cable – 10ft
	DACA-CP1-1	Inline Condensate Pump (Fits inside all Daikin wall & floor mount units)
	DACA-CP4-1	External Condensate Pump

Outdoor Unit		
Included	Part Number	Description
	DACA-WB-1	Powder-Coated Wall-Mounted Bracket
	KPW937F4	Air direction adjustment grille (09 & 12)
	KKG067A41	Back protection wire net (09 & 12)

Job Name:	
Tag#	



## Submittal Data Sheet

FTK24AXVJU / RK24AXVJU

2-Ton Wall Mounted Cooling Only System



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### Indoor Specifications

Airflow Rate (cfm)	Cooling	
	H	M
	716	605
	L	SL
	467	395
Sound (dBA) H / M / L / SL	53 / 45 / 39 / 34	
Dimensions (H × W × D) (in)	11-11/16 × 39-1/2 × 11-1/3	
Weight (Lbs)	31	

### Outdoor Specifications

Compressor	Hermetically Sealed Swing Type	
Refrigerant	R-410A	
Factory Charge (Lbs)	3.86	
Refrigerant Oil	PVE (FVC50K)	
Airflow Rate (cfm)	Cooling	
	H	1,908
Sound Pressure Level (dBA)	55	
Dimensions (H × W × D) (in)	27-13/32 × 36-5/8 × 13-13/16	
Weight (Lbs)	106	

### Efficiency

Cooling	
SEER	19
EER	12.2

### Performance

Cooling (Btu/hr)	
Rated (Min/Max)	21,200 (5,500 / 24,000)
Sensible @ AHRI	15,670
Moisture Removal gal/h	0.67
Standard Operating Range	50°F – 115°F
Extended Operating Range*	-4°F – 115°F

Rated Cooling Conditions: Indoor: 80°F DB/67°F WB  
Outdoor: 95°F DB/75°F WB

\*With field settings and wind baffle

### Electrical

	208/60/1	230/60/1
System MCA	13.4	13.4
System MFA	20.0	20.0
Compressor RLA	13.0	13.0
Outdoor fan motor FLA	1.0	1.0
Outdoor fan motor W	128	128
Indoor fan motor FLA	.50	.50
Indoor fan motor W	35	35

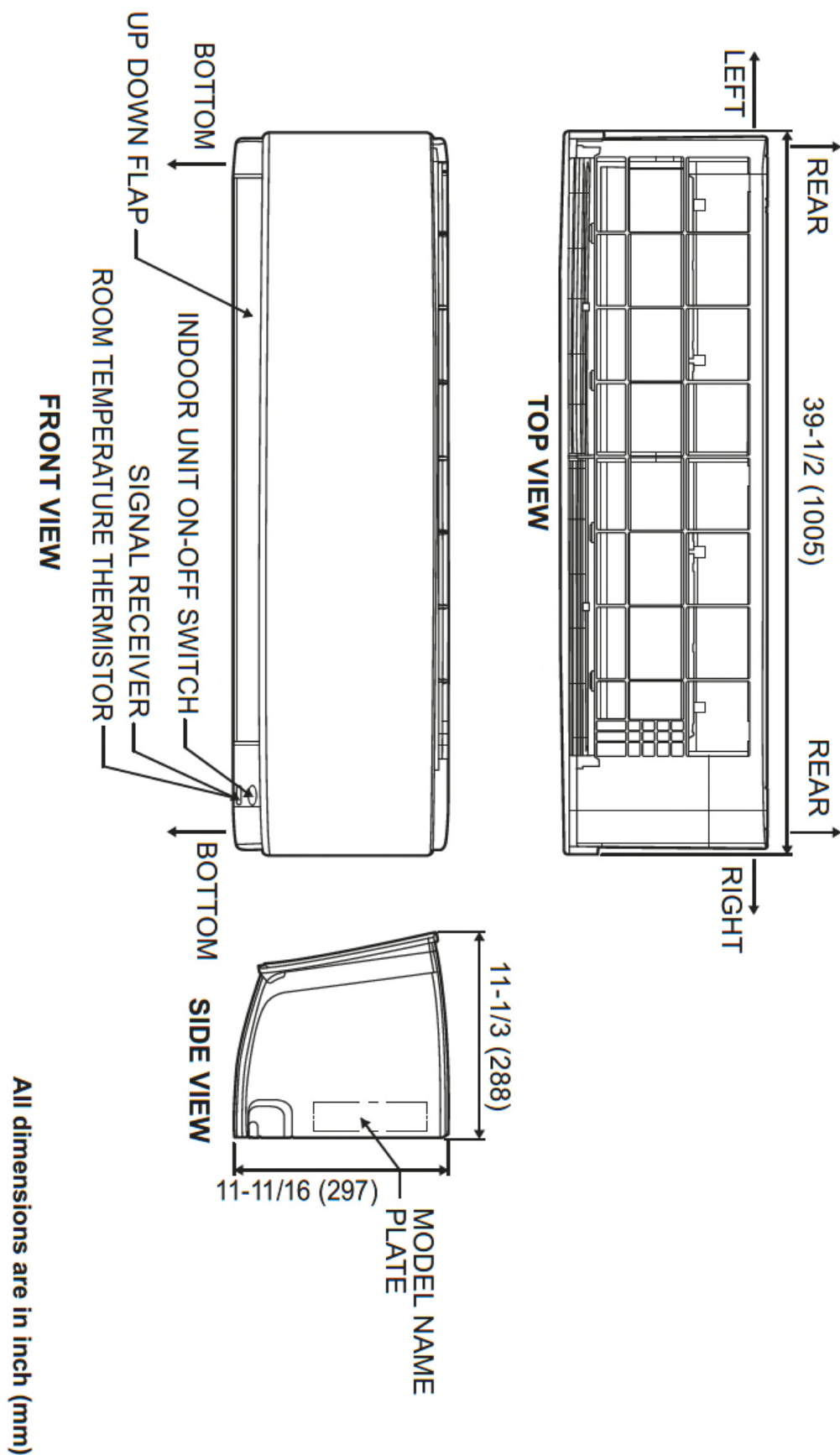
MFA: Max. fuse amps MCA: Min. circuit amps (A) FLA: Full load amps (A)  
RLA: Rated load amps (A) W: Fan motor rated output (W)

### Piping

Liquid (in)	1/4
Gas (in)	5/8
Drain (in)	3/4
Max. Interunit Piping Length (ft)	98.4
Max. Interunit Height Difference (ft)	65.625
Chargeless (ft)	32.8
Additional Charge of Refrigerant (oz/ft)	.21

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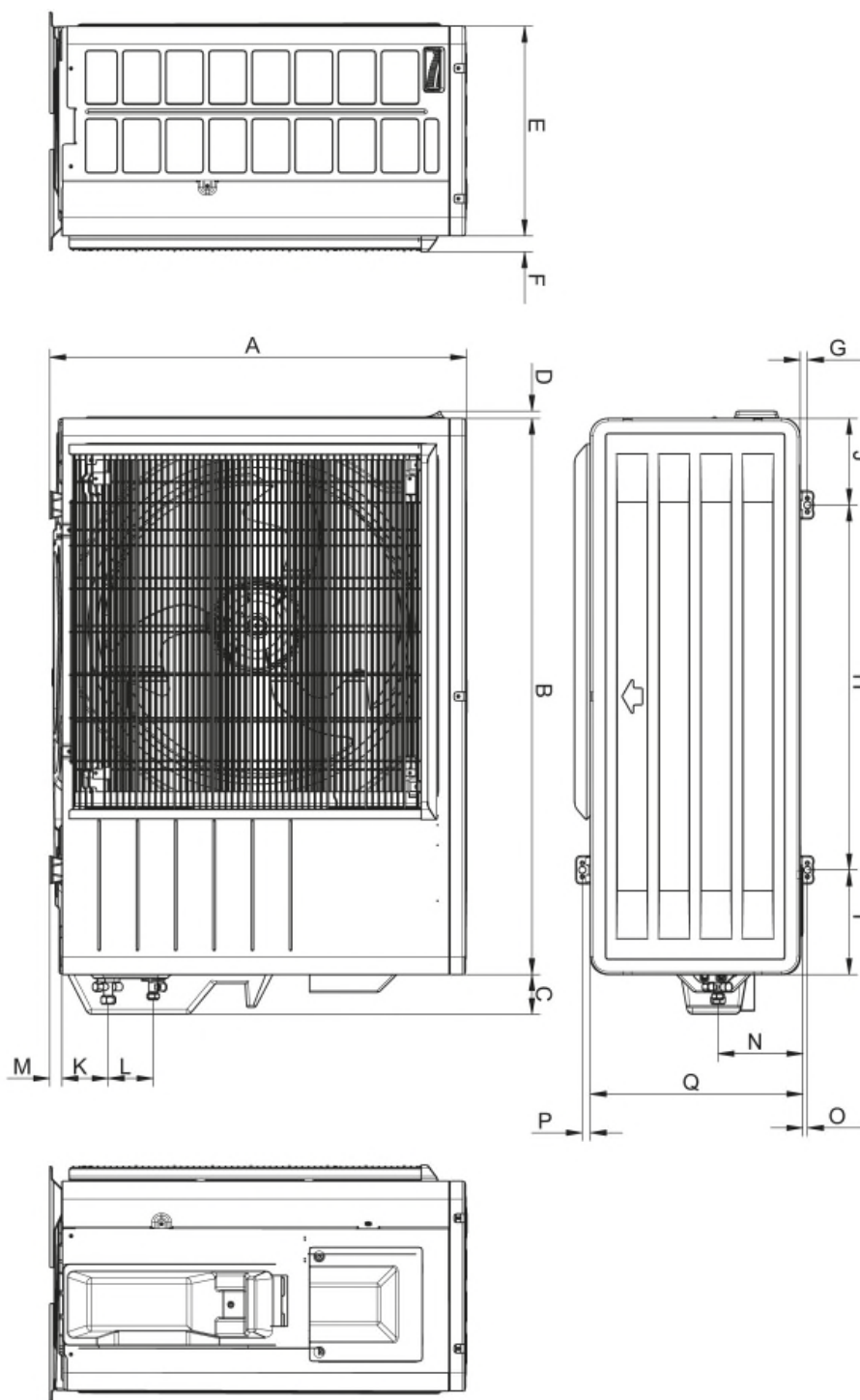


# RK24AXVJU Dimensional Data



Dimension		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
Model																		
18/24	27-13/32 (696)	36-5/8 (930)	2-19/32 (66)	15/32 (12)	13-13/16 (351)	1-1/16 (27)	15/32 (12)	24 (610)	6-7/8 (175)	5-23/32 (145)	3-1/32 (77)	2-31/32 (75)	13/16 (21)	5-19/32 (142)	5/16 (8)	17/32 (13)	13-31/32 (355)	

**All dimensions are in inch (mm)**



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Indoor Unit		
Included	Part Number	Description
	BRP072A43	Wireless Interface Adaptor
	AZAI6WSCDKB	DKN Residential Cloud Wi-Fi Adaptor for Single- and Multi-Zone System (S21)
	BRC944B2-A08	Wired Remote Controller kit
	BRCW901A08	Wired Remote Controller Cable – 25ft (Included in above kit)
	BRCW901A03	Wired Remote Controller Cable – 10ft
	DACA-CP1-1	Inline Condensate Pump (Fits inside all Daikin wall & floor mount units)
	DACA-CP4-1	External Condensate Pump

Outdoor Unit		
Included	Part Number	Description
	DACA-WB-1	Powder-Coated Wall-Mounted Bracket
	KPW063B4E	Air Adjustment Grille



# Technical Data Sheet for CH 4 330ton Screw

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	10/9/2020	
Submitted By	John Duckworth	
Software Version	11.21	
Unit Tag	CH 4 330ton Screw	



Image may not represent ordered unit

Unit Overview					
Model Number	Capacity ton	Voltage	Unit Starter Type	ASHRAE 90.1	LEED Enhanced Refrigerant Management Credit
AWV020B	329.5	460 V / 60 Hz / 3 Ph	VFD	'07, '10, '13 & '16	Pass

Unit							
Unit Type				Platform		Unit Revision	
Air-Cooled Screw Compressor Chiller				Packaged		0A	
Head Pressure				Tubing			
DC Fan Motors / All Fan VFD				No Liquid Solenoid Valves & No Suction Shut-off Valves			
Display							
On Controller only							
Compressor				Refrigerant Economizer			
MJN				None			
Refrigerant Type				Refrigerant Weight			
R134a				445 lb (per unit)			
Approval							
ETL/cETL, AHRI & ASHRAE 90.1							
Evaporator							
Evaporator Model:		EV6633A1507					
Water Volume:		224.8 gal					
Connection Hand:		Grooved / Left Hand					
Connection Size:		10.0 in					
Insulation:		Single Layer Insulation on Evaporator					
Entering Fluid Temperature	Leaving Fluid Temperature	Fluid Type	Fluid Flow	Fluid Flow Min / Max	Pressure Drop	Pressure Drop Min / Max	Fouling Factor
59.00 °F	45.00 °F	Water	563.8 gpm	336.4/ 1329.7 gpm	6.70 ft H <sub>2</sub> O	2.70 / 30.4 ft H <sub>2</sub> O	0.000100 °F.ft <sup>2</sup> .h/Btu
Note: Evaporator Pressure Drop does not include a strainer. Minimum flow is based on a Variable Flow Pumping System Type and applies to part load conditions only.							
Condenser							
Number of Fans:		20					
Coil Fins:		MicroChannel					
Guards:		Condenser Coil Louvers & Base Frame Wire Grilles					
Design Ambient Air Temperature		Altitude		Fan Diameter		Minimum Design Ambient Temperature	
100.0 °F		0.000 ft		31.5 in		0.0 °F	

# Technical Data Sheet for CH 4 330ton Screw

## Unit Performance

Design												
Capacity			Input Power				Efficiency (EER)			IPLV/IP* (EER)		
329.5 ton			436.3 kW				9.063 Btu/W.h			20.08 Btu/W.h		
Performance Points rated at AHRI Ambient Relief												
Unit							Evaporator				Condenser	
Point #	% Load	Capacity ton	Input Power kW	Efficiency (EER) Btu/W.h	Refrigerant Economizer Status #1; #2	Compressor RPS #1; #2	Fluid Flow gpm	Pressure Drop ft H <sub>2</sub> O	Entering Fluid °F	Leaving Fluid °F	Ambient Air °F	Altitude ft
1	100.0	329.5	436.3	9.063	N/A	86; 86	563.8	6.70	59.00	45.00	100.0	0.000
2	75.0	247.1	205.6	14.42	N/A	54; 59	563.8	6.70	55.50	45.00	83.1	0.000
3	50.0	164.8	86.27	22.92	N/A	32; 36	563.8	6.70	52.00	45.00	66.3	0.000
4	25.0	82.38	33.26	29.72	N/A	16; 20	563.8	6.70	48.50	45.00	55.0	0.000
* IPLV reflects AHRI standard rating conditions with water and may change with user defined conditions due to AWW product optimized configurability.												

\* IPLV reflects AHRI standard rating conditions with water and may change with user defined conditions due to AWV product optimized configurability.

## Sound Data (Internal Discharge Compressor Muffler)

Sound Pressure (at 30 feet)																								
% Load		63 Hz db		125 Hz db		250 Hz db		500 Hz db		1 kHz db		2 kHz db		4 kHz db		8 kHz db		Overall dBA						
100		75		71		68		69		69		71		61		49		75						
75		75		71		72		71		66		62		55		45		72						
50		75		71		67		67		63		56		51		43		68						
25		71		65		61		63		57		47		43		35		63						
Sound Power																								
% Load		63 Hz db		125 Hz db		250 Hz db		500 Hz db		1 kHz db		2 kHz db		4 kHz db		8 kHz db		Overall dBA						
100		102		98		95		96		96		98		88		76		102						
75		102		98		99		98		93		89		82		73		100						
50		102		98		94		94		90		83		78		70		95						
25		98		92		88		90		84		74		70		62		90						
One-third Octave Band Sound Power																								
% Load	50 Hz	63 Hz	80 Hz	100 Hz	125 Hz	160 Hz	200 Hz	250 Hz	315 Hz	400 Hz	500 Hz	630 Hz	800 Hz	1 kHz	1.25 kHz	1.6 kHz	2 kHz	2.5 kHz	3.15 kHz	4 kHz	5 kHz	6.3 kHz	8 kHz	10 kHz
100	101	95	91	93	92	94	90	90	88	89	92	91	88	94	90	96	91	87	86	82	79	75	69	62
75	101	95	91	93	92	94	90	91	97	89	90	97	88	87	90	87	83	80	80	76	73	71	65	59
50	101	95	92	93	92	93	90	90	88	88	89	91	88	83	85	81	78	75	75	72	70	68	63	57
25	97	91	88	89	87	87	84	83	82	82	85	87	83	74	76	71	68	66	67	64	61	60	56	51
Octave band is non 'A' weighted and overall readings are 'A' weighted. Sound data rated in accordance with AHRI Standard-370.																								

Octave band is non 'A' weighted and overall readings are 'A' weighted. Sound data rated in accordance with AHRI Standard-370.

## Physical

Unit				
Length*	Height	Width*	Shipping Weight*	Operating Weight*
410 in	100 in	88 in	20858 lb	22778 lb
Option Weights				
Louvers:	1325 lb			
Total:	1325 lb			

\*Shipping and Operating Weights include the below Option weights only and do not include the weights of any Accessories. Contact Chiller Applications for additional information.

## Technical Data Sheet for CH 4 330ton Screw

### Electrical

Unit Electrical Data				
Voltage	Starter Type	Fan Motor Quantity	LRA Fan Motor (each)	FLA Fan Motors (each)
460 V / 60 Hz / 3 Ph	VFD	20	4 A	2.6 A
Power Connection Type:	Single Point Disconnect Switch with Circuit Protection			
Short Circuit Current Rating:	10 kA			
Drive Type(#1;#2):	CIMR-AU4A0515;CIMR-AU4A0414			
Phase Voltage:	None (PVM included as part of Solid State / VFD)			
Single Point Power Connection				
Minimum Circuit Ampacity (MCA):	709 A			
Recommended Overcurrent Protection Size:	800 A			
Maximum Overcurrent Protection Size(MOCP):	1000 A			
Lug Connection Size:	(3) 2/0-400MCM			
Compressor Electrical Data				
Compressor Type		Compressor Quantity		Starter Type
Screw		2		VFD
	Compressor #			
	1		2	
Rated Load Amps (RLA):	341 A		222 A	
Inrush Current:	341 A		222 A	

### Options

Control	
<b>Communication:</b>	BACnet MS/TP
Electrical	
<b>Unit Options:</b>	115V Convenience Outlet
<b>Water Flow Indicator:</b>	Thermal Dispersion Type

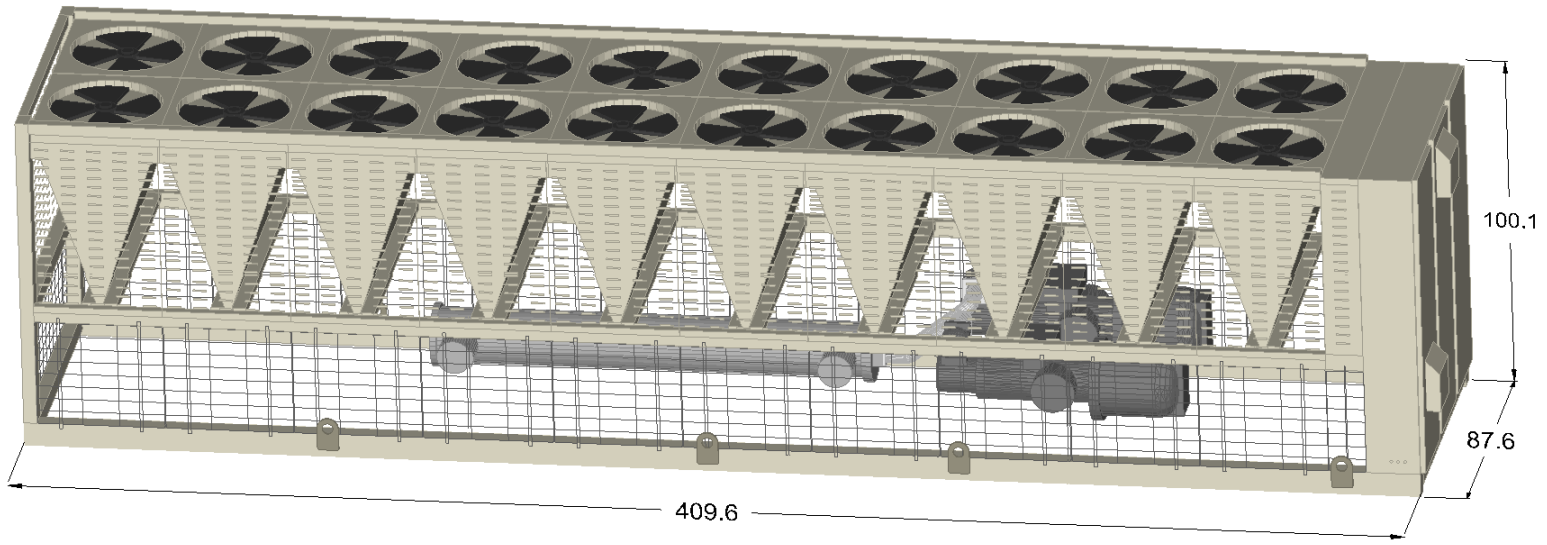
### Warranty

<b>Unit Startup</b>	Domestic
<b>Standard Warranty:</b>	1st Year Entire Unit Parts & Labor

### AHRI Certification



Certified in accordance with the AHRI Air-Cooled Water-Chilling Packages Certification Program, which is based on AHRI Standard 550/590 (I-P) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org)



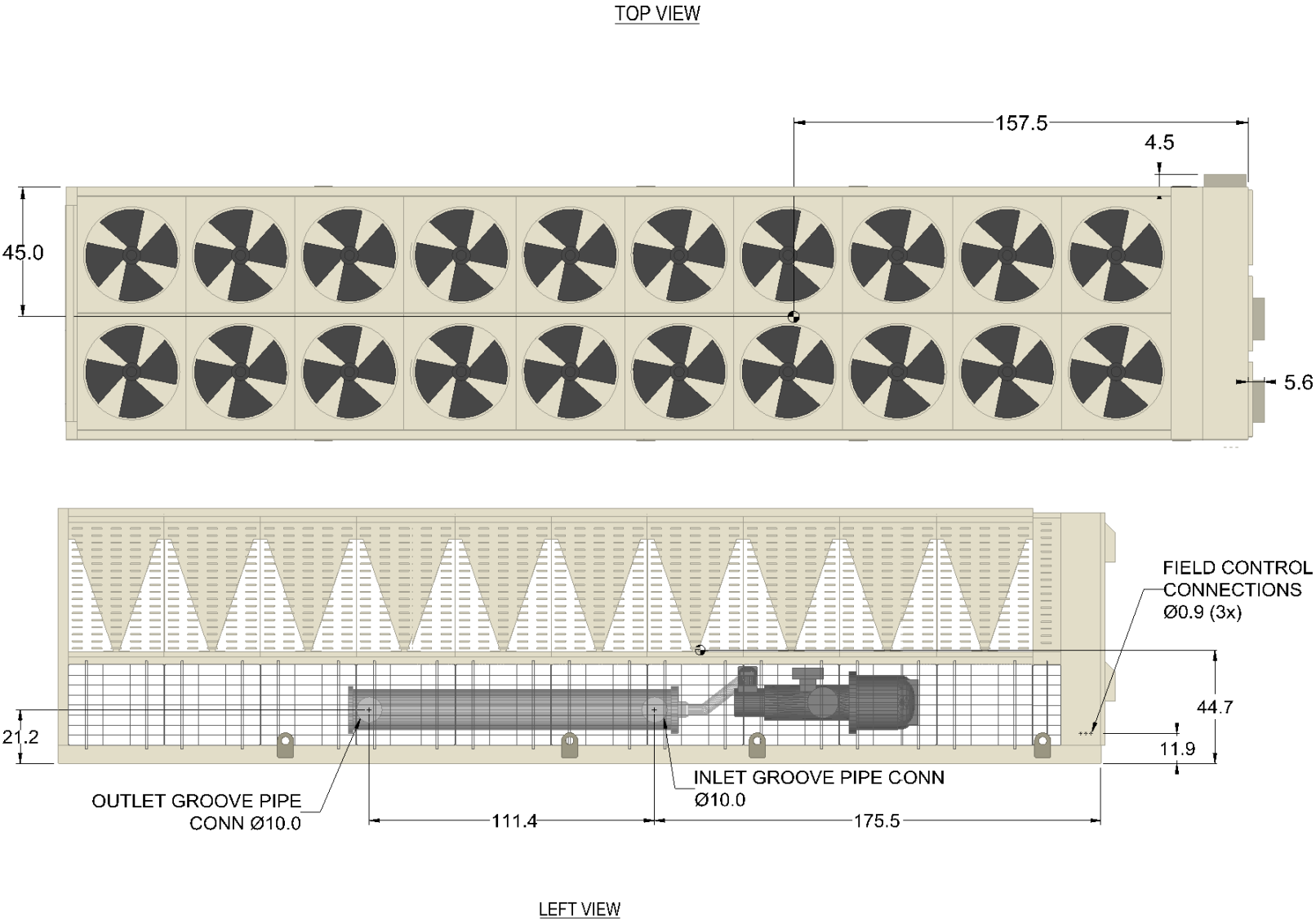
NOTE: A water strainer must be installed at the inlet of the evaporator to protect it from damage. Please refer to the IOM for additional details.


<b>Product Drawing</b>	Unit Tag: CH 4 330ton Screw			Sales Office: Daikin TMI LLC (Kansas City)		
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:		
Model: AWV020B	Oct. 09, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: (in)



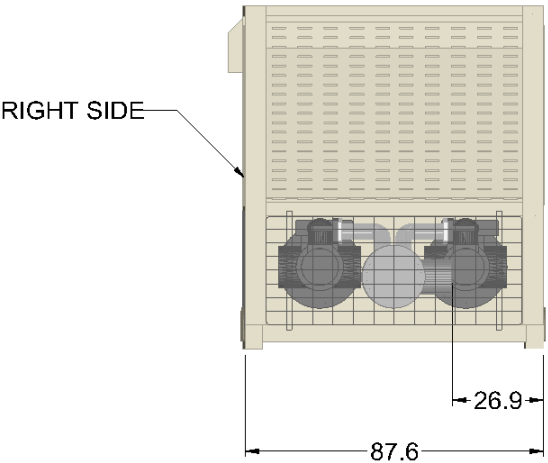
13600 Industrial Park Blvd. Minneapolis, MN 55441  
www.DaikinApplied.com Software Version: 11.21

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

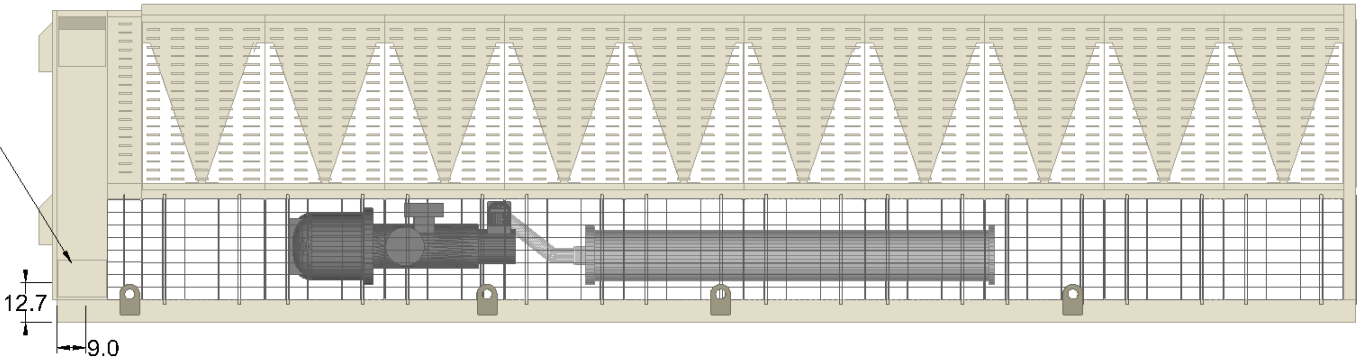


Product Drawing		Unit Tag: CH 4 330ton Screw			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 11.21
Product:		Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: AWV020B		Oct. 09, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: (in)	
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REAR VIEW



POWER ENTRY  
IN SIDE OF C-BOX  
REMOVABLE COVER  
9 X 12.5 OPENING



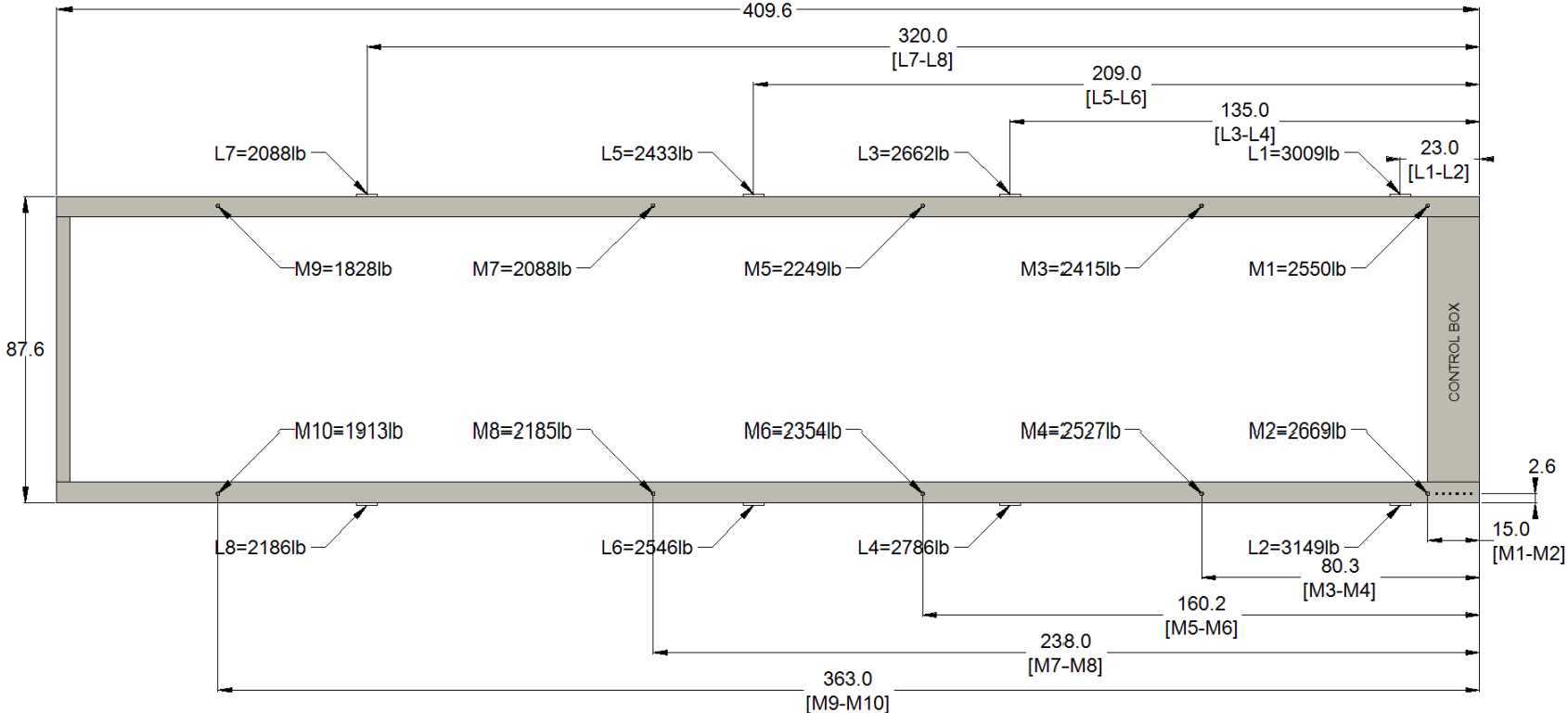
RIGHT VIEW

Product Drawing	Unit Tag: CH 4 330ton Screw			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 11.21
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: AWW020B	Oct. 09, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: (in)	
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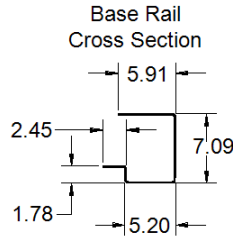



Mounting and Lifting

BASE FRAME TOP VIEW



- NOTES:
- 1) L = LIFTING WEIGHT
  - 2) M = MOUNTING LOAD
  - 3) UNIT SHIPPING WEIGHT = 20858lb
  - 4) UNIT OPERATING WEIGHT = 22778lb
  - 5) MOUNTING HOLE SIZE = .75"
  - 6) MOUNTING HOLES ONLY ON BOTTOM OF BASE
  - 7) UNIT WIDTH DIMENSION DOES NOT INCLUDE 1 INCH THICKNESS OF THE LIFTING LUG ASSEMBLIES ON BOTH SIDES, WHICH MAY BE REMOVED AFTER INSTALLATION

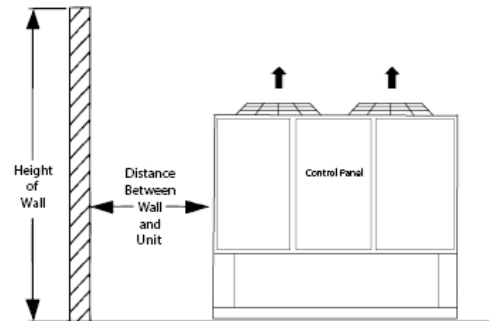


Product Drawing		Unit Tag: CH 4 330ton Screw			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 11.21
Product:		Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: AWV020B		Oct. 09, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: (in)	
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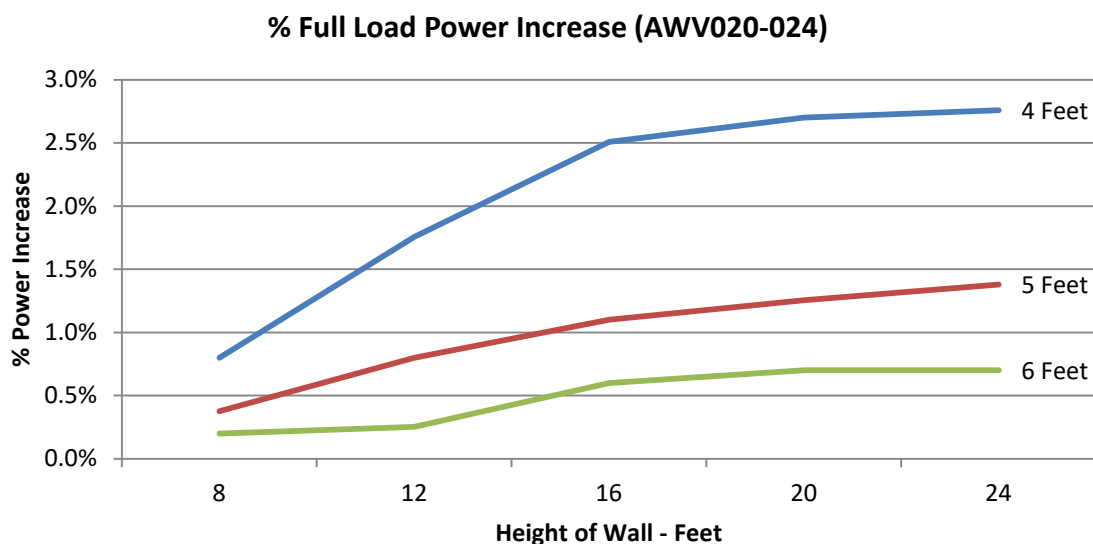
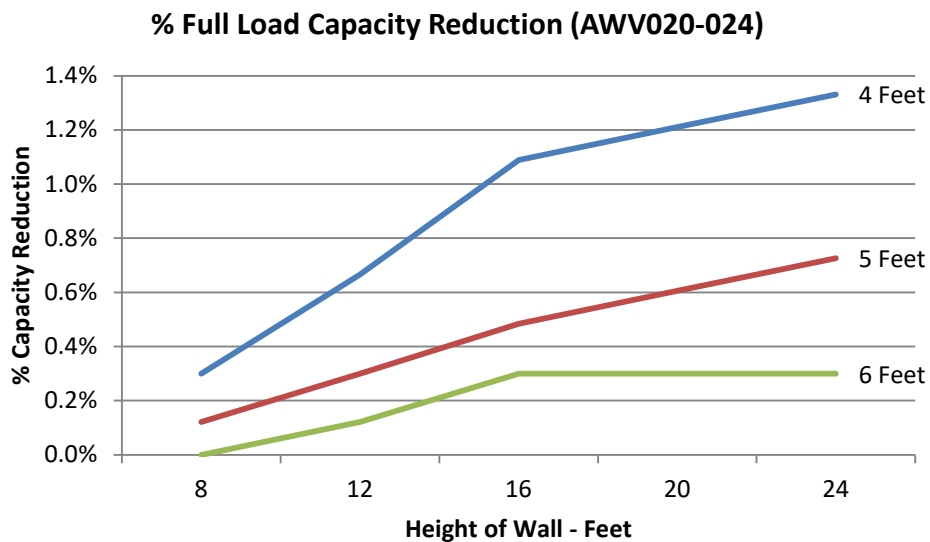
## AWV Close Spacing Performance

### Case 1: Building or Wall on One Side of Unit

For all models, maintain a 4 feet minimum from a wall of any height; however, performance may be affected at this distance due to air recirculation and elevated condenser pressure.



### Case 1- Full Load Power Increase and Capacity Reduction

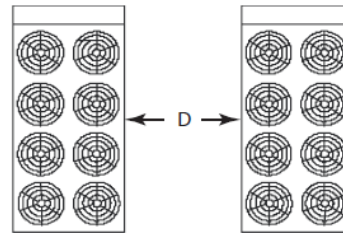


<b>Product Drawing</b>	Unit Tag: CH 4 330ton Screw			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 11.21		
Product: Air-Cooled Screw Chiller	Project Name: LSSD Lees Summit HS					
Model: AWV-A	Sales Office: Daikin TMI LLC (Kansas City)					
Sales Engineer: John Duckworth	Oct. 09, 2020	Ver/Rev:	Sheet 1 of 1	Scale: NTS	Tolerance: +/-1.0"	Dwg Units: in [mm]
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						

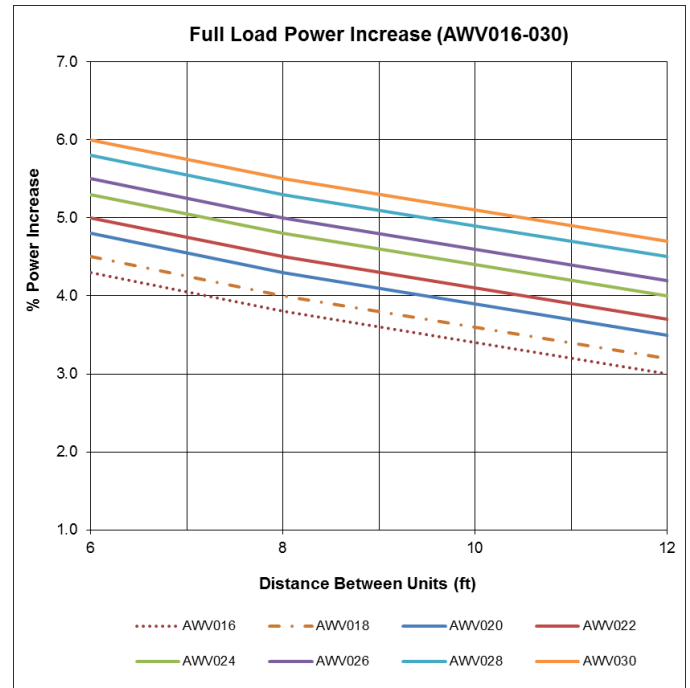
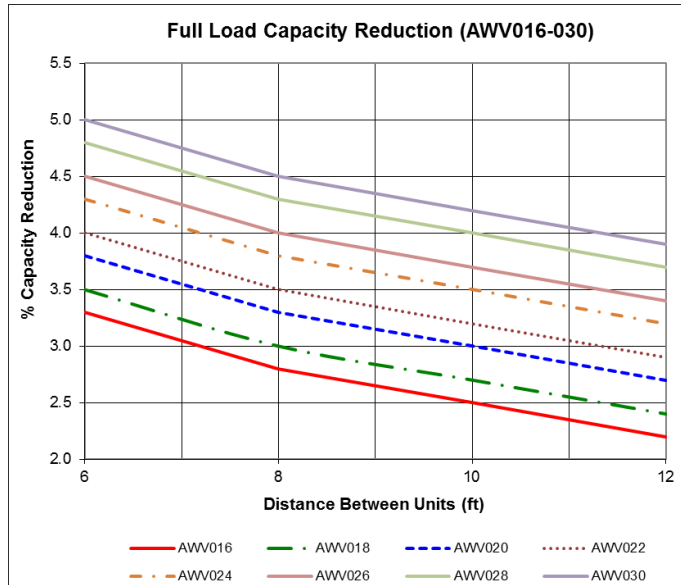
## AWVA\_Spacing\_020-024\_Drawing for CH 4 330ton Screw

### Case 2: Two Units, Side-by-Side

For all models, there must be a minimum of 6 feet between two units placed side-by-side; however, performance may be affected at this distance due to air recirculation and elevated condenser pressure.

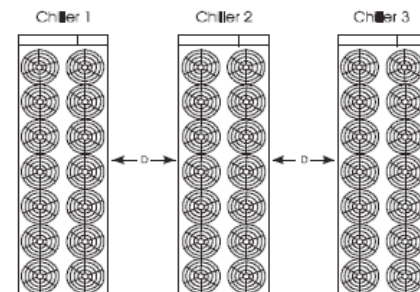


#### Case 2 - Full Load Capacity Reduction and Power Increase

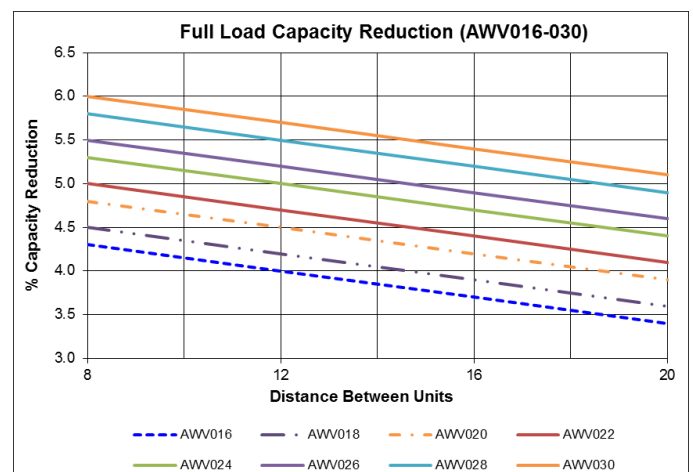
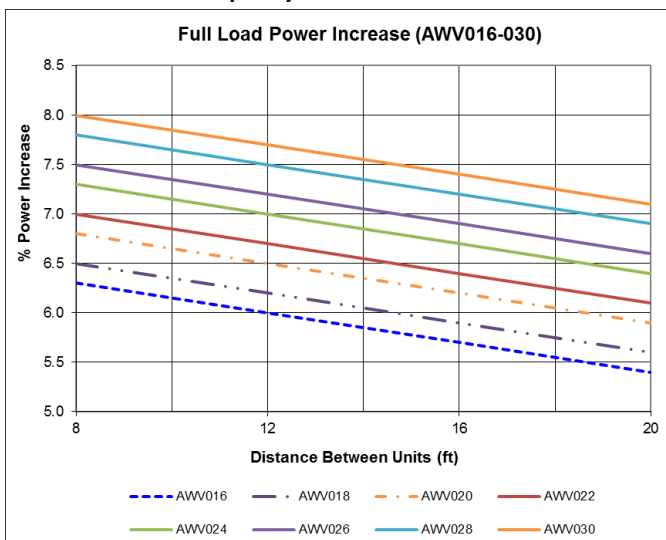


### Case 3: Three or More Units, Side-by-Side

For all models, there must be a minimum of 8 feet between any units placed side-by-side; however, performance may be affected at this distance.



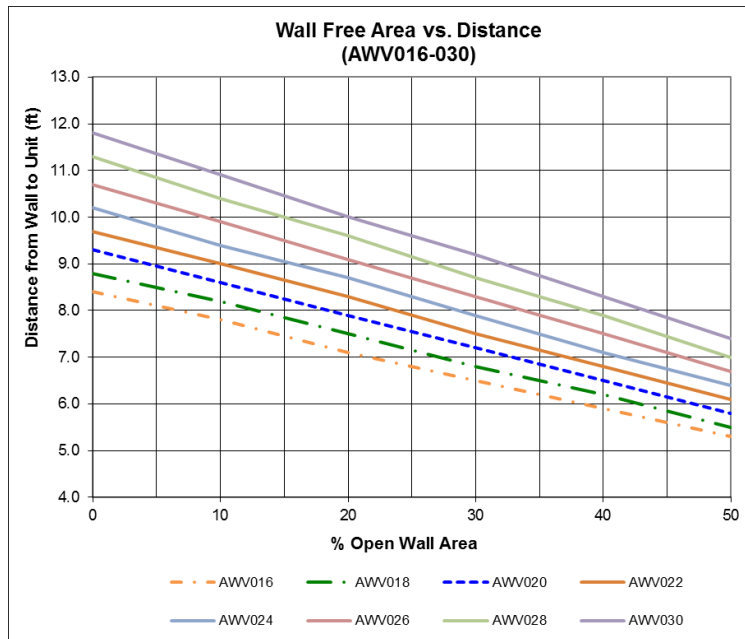
#### Case 3 - Full Load Capacity Reduction and Power Increase



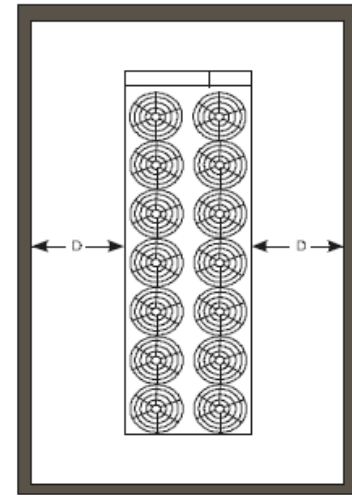
## AWVA\_Spacing\_020-024\_Drawing for CH 4 330ton Screw

### Case 4: Open Screening Walls

Decorative screening walls are often used to help conceal a unit either on grade or on a rooftop. When possible, design these walls such that the combination of their open area and distance from the unit do not require performance adjustment. If the wall opening percentage is less than recommended for the distance to the unit, it should be considered as a solid wall. It is assumed that the wall height is equal to or less than the unit height when mounted on its base support. If the wall height is greater than the unit height, see Case 5: Pit Installation. The distance from the sides of the unit to the side walls must be sufficient for service, such as opening control panel doors. For uneven wall spacing, the distance from the unit to each wall can be averaged providing no distance is less than 4 feet. Values are based on walls on all four-sides.



### Case 4 - Allowable Wall Open Area

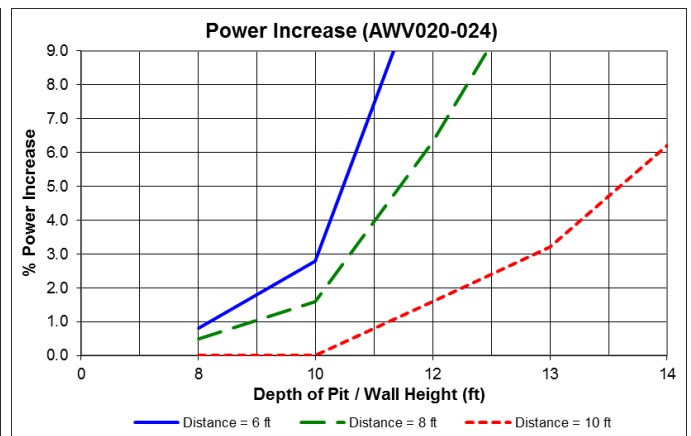
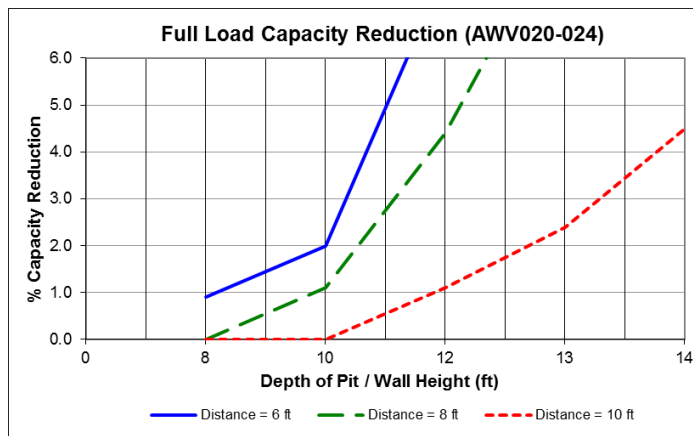


### Case 5: Pit Installation

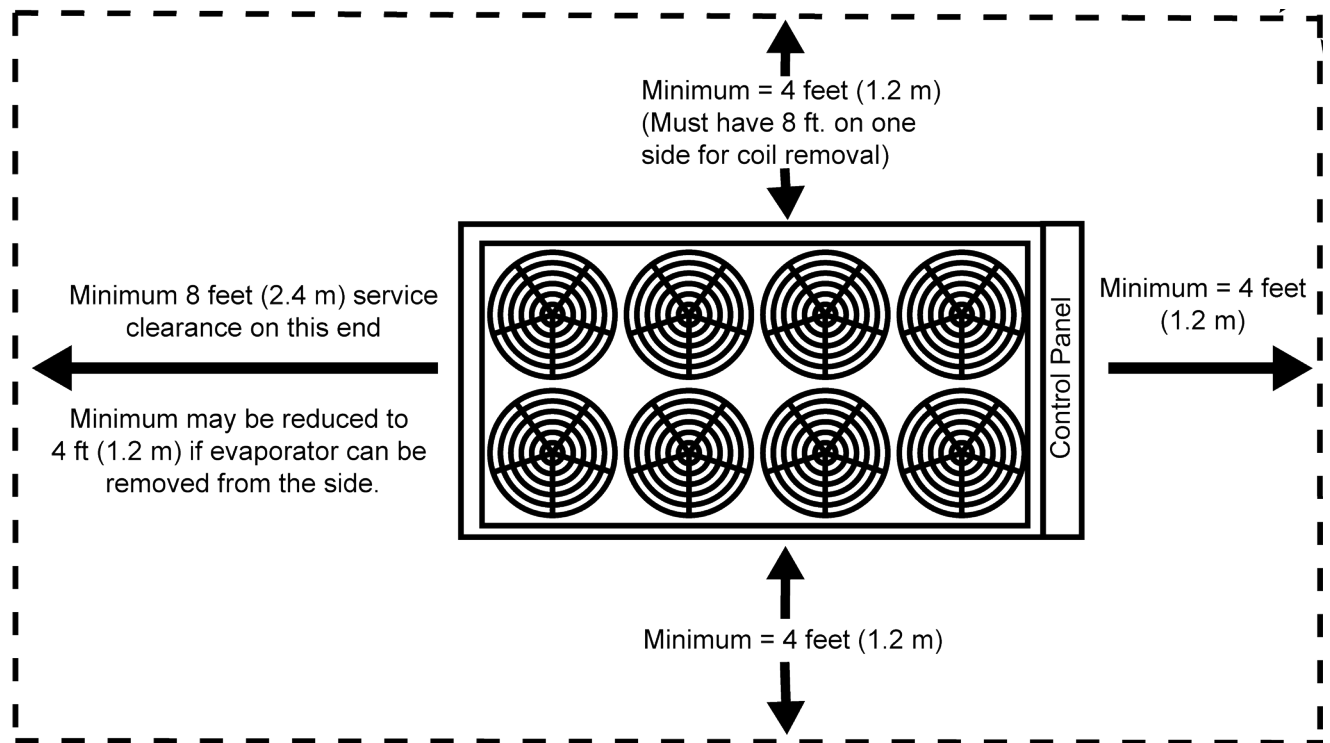
Pit installations can cause operating problems resulting from air recirculation and restriction and require care that sufficient air clearance is provided, safety requirements are met and service access is provided. A solid wall surrounding a unit is substantially a pit and this data should be used. Derates are based on single chiller installation only.

Steel grating is sometimes used to cover a pit to prevent accidental falls or trips into the pit. The grating material and installation design must be strong enough to prevent such accidents, yet provide abundant open area to avoid recirculation problems. Have any pit installation reviewed by the Daikin Applied sales representative prior to installation to ensure it has sufficient air-flow characteristics and approved by the installation design engineer to avoid risk of accident.


### Case 5 - Full Load Capacity Reduction and Power Increase



## AWV-A Service Clearance



\*NOTE: Additional clearance may be required for proper airflow. Please consult Close Spacing drawings and IOM for additional details.

<b>Product Drawing</b>	Unit Tag: CH 4 330ton Screw			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 11.21		
Product: Air-Cooled Screw Chiller	Project Name: LSSD Lees Summit HS					
Model: AWV-A	Sales Office: Daikin TMI LLC (Kansas City)					
Sales Engineer: John Duckworth	Oct. 09, 2020	Ver/Rev:	Sheet 1 of 1	Scale: NTS	Tolerance: +/-1.0"	Dwg Units: in [mm]
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						

## Document Summary Page





# SUBMITTAL DATA

for

LSSD Lees Summit HS Remodel

Prepared for

Henderson Engineers

Job Number: 8XB73N

Customer PO#:

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Prepared by

David Duckworth

11/16/2020

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## Technical Data Sheet for RTU - A8



Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	08.51	
Unit Tag	RTU - A8	

Unit Overview					
Model Number	Voltage V/Hz/Phase	Design Cooling Capacity UOM_OSelected_CoilTotal	EER@95/75 EAT & 200 CFM/ton		ASHRAE 90.1
			EER	IEER	
DPS010A	460/60/3	113759	12.1	Not Applicable	ASHRAE 90.1-2016 compliant

Unit	
Model Number:	DPS010A
Model Type:	Cooling
Heat Type:	Gas
Hot Gas Reheat:	MHGRH with Duct Humidity Sensor
Energy Recovery:	ERW-Med Cab-Econ: 2835 cfm max, 100% OA: 5145 cfm max
Application:	Variable Air Volume, Single Zone (Mixed Air or 100% OA)
Controls:	Microtech III
Outside Air:	100% Outside Air
Altitude:	0 ft
Approval	cETLus

Physical			
Dimensions and Weight			
Length	Height	Width	Weight
111.0 in	56.8 in	96.5 in	2718 lb
Corner Weights			
L1	L2	L3	L4
455 lb	440 lb	897 lb	927 lb
Construction			
Exterior	Insulation and Liners	Air Opening Location	
		Return	Supply
Painted Galvanized Steel	1" Injected Foam, R-7, Galvanized Steel Liner	Bottom	Bottom

Electrical			
Unit FLA	MCA	MROPD	SCCR
20.5 A	22.5 A	30 A	5 kAIC
Note:	Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.		

# Technical Data Sheet for RTU - A8

Return/Outside/Exhaust Air			
Outside Air Option			
Type	Damper Pressure Drop		Exhaust Air Type
None	0.09 inH <sub>2</sub> O		Powered, Modulating with Building Pressure Control
Exhaust Fan			
Type	Drive Type		Wheel Diameter
SWSI AF	Direct Drive		14 in
Motor			
(Qty) Horsepower	Type	Efficiency	Full Load Current (Each)
(1) 2.3 HP	ECM	Premium	2.3 A
Performance			
Air Flow CFM	External Static Pressure inH <sub>2</sub> O	Fan Speed RPM	Brake Horsepower HP
2700	1.00	2332	1.32

Energy Recovery										
Design OA Volume		Design Exhaust Volume		Wheel Pressure Drop		Motor HP		Motor FLA		
2750 CFM		2700 CFM		0.62 inH <sub>2</sub> O		0.17 HP		0.4 A		
Summer Conditions										
Temperature								Recovered Capacity Btu/hr	Effectiveness	
Outside Air		Return Air		Wheel Leaving		Mixed Air			Total	Sensible
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
96.4	74.7	75.0	63.0	81.1	67.0	81.1	67.0		77401	0.67
Winter Conditions										
Temperature								Recovered Capacity Btu/hr	Effectiveness	
Outside Air		Return Air		Wheel Leaving		Mixed Air			Total	Sensible
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
0.0	-1.0	68.0	48.0	46.5	35.4	46.5	35.4		157375	0.69
Bypass Damper:		No								
Energy Recovery Filters										
Efficiency	Quantity/Size			Face Area		Face Velocity		Air Pressure Drop		
	Outdoor		Exhaust	Outdoor ft²	Exhaust ft²	Outdoor ft/min	Exhaust ft/min	Outdoor inH <sub>2</sub> O	Exhaust inH <sub>2</sub> O	
2 in. MERV 8	(3) 18 in. X 24 in.		(3) 18 in. X 24 in.	9.0	9.0	305.6	300.0	0.11	0.11	
Combined Efficiency Factor										
Application Specific CEF:		13.8								

Filter Section				
Physical				
Type	Quantity / Size		Face Area	Air Pressure Drop
Combo 2"/4" rack with 2" MERV 8	6 / 18 in x 24 in x 2 in		18.0 ft <sup>2</sup>	0.05

## Technical Data Sheet for RTU - A8

### DX Cooling Coil

Physical							
Coil Type	Refrigerant Type	Fins per Inch	Rows	Face Area	Face Velocity	Air Pressure drop	Drain Pan Material
Cu Tube/ Al Fin	R410A	15	4	15.4 ft²	178.2 ft/min	0.15 inH <sub>2</sub> O	Stainless Steel
Cooling Performance							
Capacity			Indoor Air Temperature				
Total Btu/hr	Sensible Btu/hr	Moisture Removal lb/h	Entering		Leaving		Ambient air Temperature °F
			Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	
113759	82048	27.3	81.1	67.0	53.8	53.5	100.0
Condensate Connection Size: 3/4 in. Male NPT							

### Hot Gas Reheat Coil Section

Type	Face Area	Air Pressure Drop	Total Capacity	Leaving Air Temperature	
				Dry Bulb	Wet Bulb
Aluminum Tube Micro-Channel	14.6 ft²	0.03 inH <sub>2</sub> O	54173 Btu/hr	72.0 °F	60.3 °F

### Fan Section

Fan				
Type	Fan Wheel Diameter		Fan Isolation	
SWSI AF	16 in		None	
Performance				
Airflow	Total Static Pressure	Fan Speed	Brake Horsepower	Altitude
2750 CFM	2.6 inH <sub>2</sub> O	2023 rpm	1.69 HP	0 ft
Motor				Drive
Type	Horsepower	Efficiency	FLA	Type
ECM Motor	4.0	Premium	4.0 A	Direct Drive

### Gas Heat Section

Physical						
Airflow	Max Allowable Burner Temp Rise		Size	Connection (Qty) Size	Heat Exchanger Material	
2750 CFM	100.0 °F		300 MBH	(1) 0.75 in. Female NPT	Stainless Steel	
Performance						
Capacity Btu/hr	Air Temperature Dry Bulb		Air Pressure Drop inH <sub>2</sub> O	Gas Pressure		Modulation
	Entering °F	Leaving °F		Minimum inH <sub>2</sub> O	Maximum inH <sub>2</sub> O	
240000	0.0	80.4	0.12	7	14	Modulating 10:1 Turndown

### Unit Discharge Conditions

Air Temperature				
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
5319	27.3	55.6	54.1	53.2

## Technical Data Sheet for RTU - A8

Condensing Section					
Compressor					
Type	Quantity	Refrigerant Charge lb	Total Power	Capacity Control	Compressor Isolation
Inverter Scroll + Fixed Scroll	2	25.8	8.59 kW	Mod Control with Inverter Compressors	Rubber in Shear
Compressor Amps:					
Compressor 1			4.5 A		
Compressor 2			7.9 A		
Condenser Coil					
Type		Fins per Inch		Fin Material	
Aluminum Microchannel		23		Aluminum	
Condenser Fan Motors					
Number of Motors			Full Load Current (Total)		
2			1.8 A		

Internal Pressure Drop Calculation	
External Static Pressure:	1.00 inH <sub>2</sub> O
Filter:	0.05 inH <sub>2</sub> O
Dirty Filter:	0.40 inH <sub>2</sub> O
Outside Air:	0.09 inH <sub>2</sub> O
Energy Recovery:	0.73 inH <sub>2</sub> O
DX Coil:	0.15 inH <sub>2</sub> O
Hot Gas Reheat:	0.03 inH <sub>2</sub> O
Gas Heat:	0.12 inH <sub>2</sub> O
Total Static Pressure:	2.57 inH <sub>2</sub> O

	Sound							
	Sound Power (db)							
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	74	72	80	75	77	71	66	60
Discharge	74	75	83	80	83	77	74	68
Radiated	85	85	81	78	76	71	64	57

Options	
Electrical	
Field Connection:	Non-Fused Disconnect Switch
Powered Receptacle:	Field powered 115V GFI outlet
Power Options:	Phase Failure Monitor

Factory Installed Sensors
Leaving Coil/Entering Fan Temperature Sensor
Duct High Limit Switch
Return Air Temperature Sensor
Discharge Air Temperature sensor – Wired in unit, mounted in supply duct
Outside Air Temperature Sensor
Dirty Filter On/Off Switch
Supply Fan Air Proving Via Modbus
Building Static Pressure Sensor
Supply Leaving Wheel Temperature Sensor
Exhaust Leaving Wheel Temperature Sensor

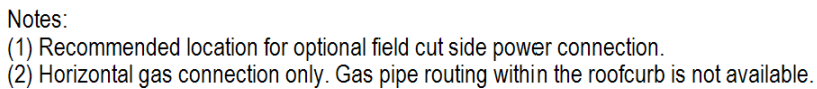



Technical Data Sheet for RTU - A8

Warranty	
Parts:	Standard One Year
Compressor:	Standard One Year
Gas Heat Exchanger:	Standard one Year

Notes

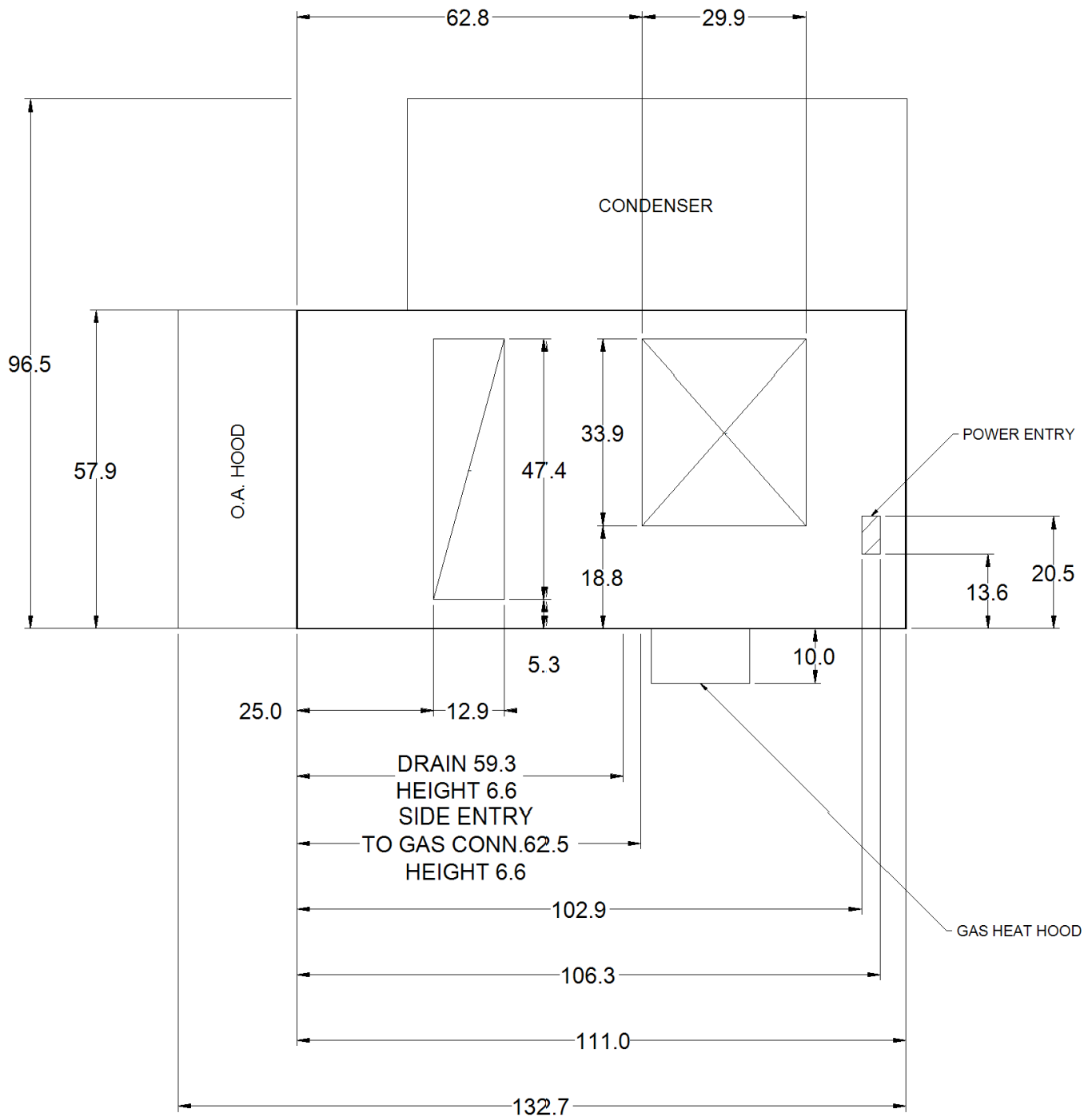
Accessories	
Mandatory	
Part Number	Description
910190890	HUMIDITY SENSOR, DUCT MOUNTED, 0-5VDC
Optional	
Part Number	Description
910134603	14" Roof Curb, W/ERW, Size 007-015




<b>Product Drawing</b>	Unit Tag: RTU - A8			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 08.51
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: DPS010A	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

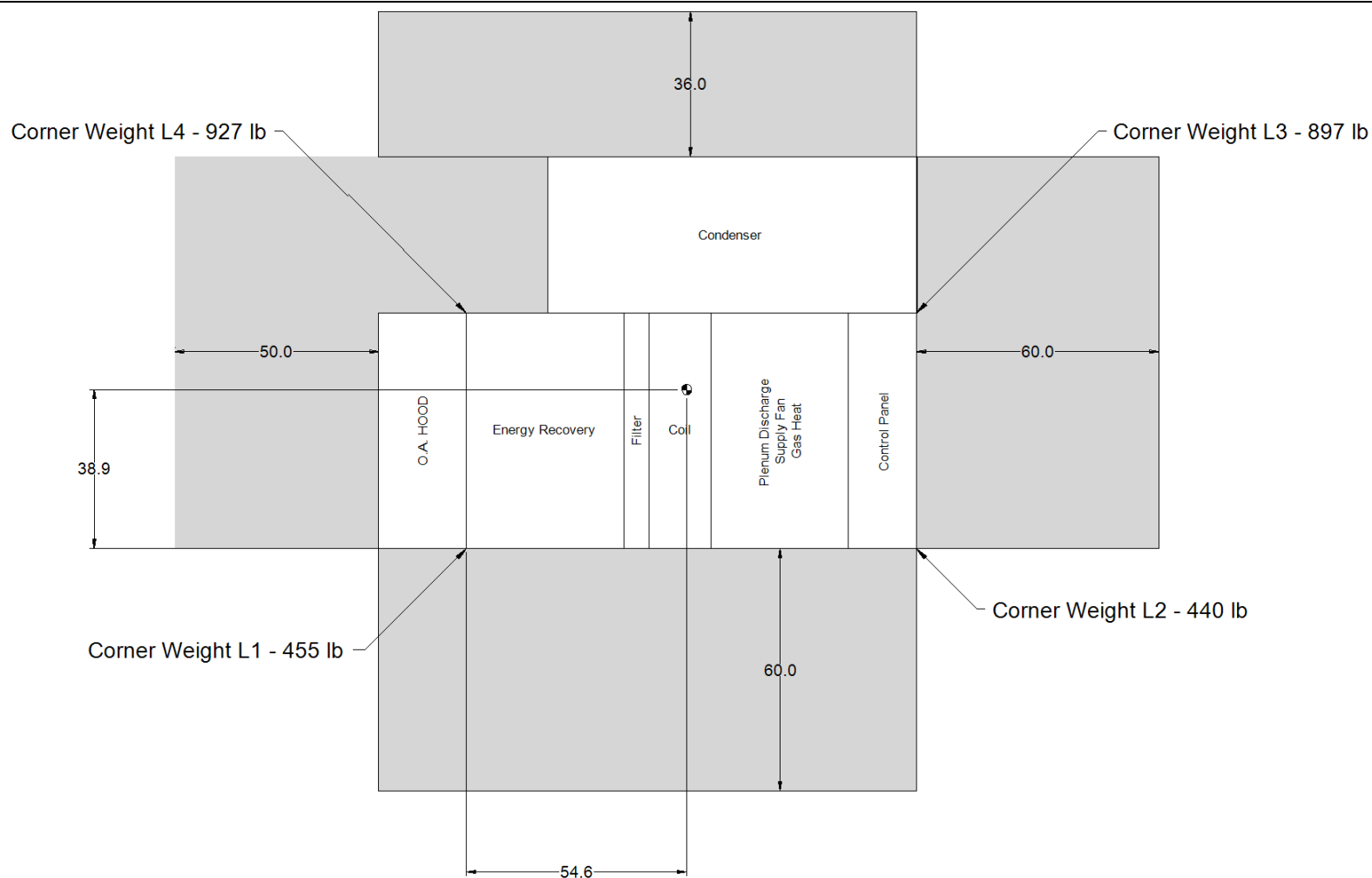
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.


## Drawings(2) for RTU - A8



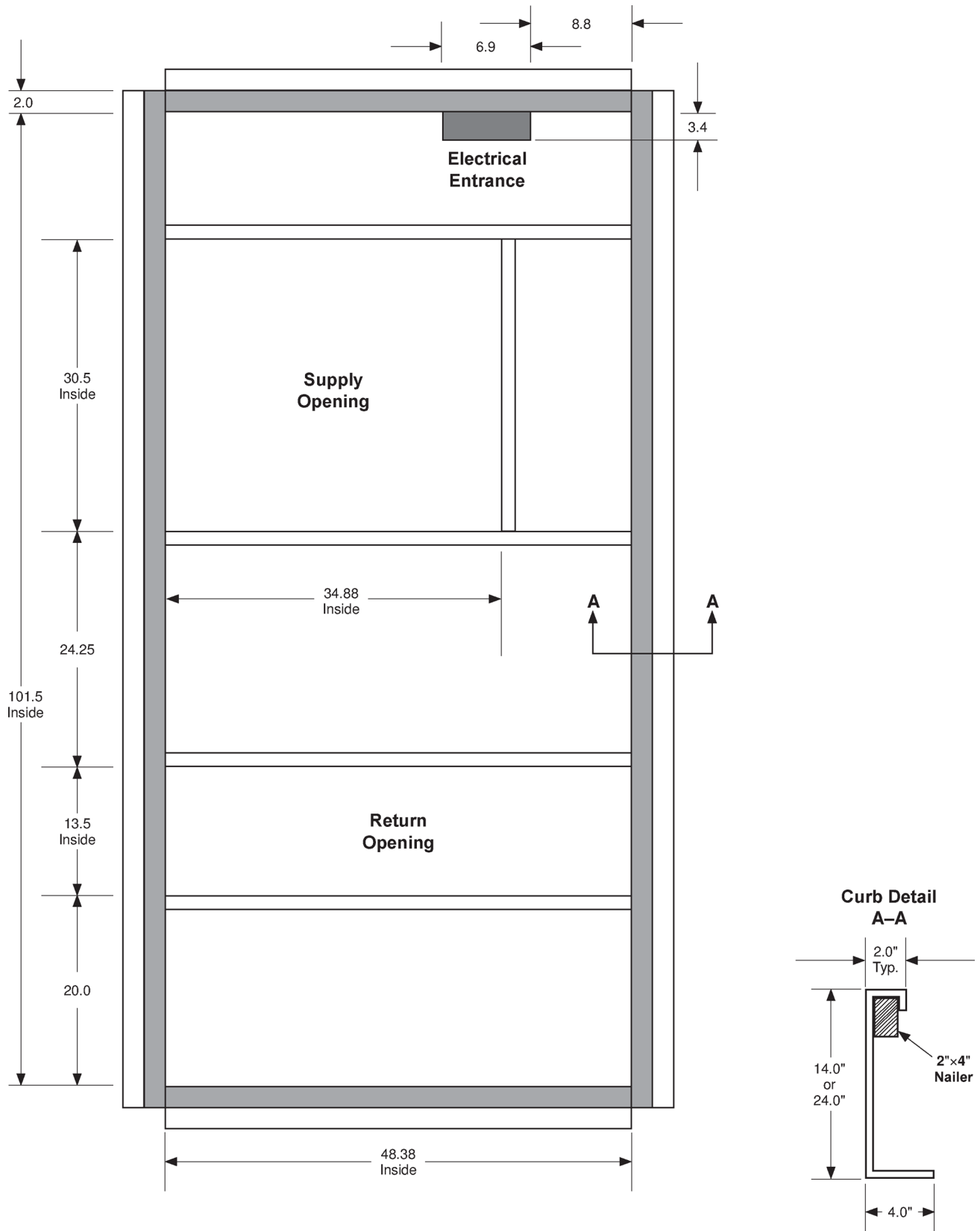
PLAN VIEW - OPENINGS & OVERALL


<b>Product Drawing</b>		Unit Tag: RTU - A8			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 08.51		
Product:		Project Name: LSSD Lees Summit HS					
Model: DPS010A		Sales Office: Daikin TMI LLC (Kansas City)					
Sales Engineer:		Nov. 16, 2020	Ver/Rev:	Sheet 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in [mm]
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							



<b>Product Drawing</b>	Unit Tag: RTU - A8			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 08.51
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: DPS010A	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

# Large Box Roof Curbs ERW\_Drawing for RTU - A8



<b>Product Drawing</b>		Unit Tag: RTU - A8		 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 08.51		
Product:		Project Name: LSSD Lees Summit HS				
Model: DPS010A		Sales Office: Daikin TMI LLC (Kansas City)				
Sales Engineer:	Nov. 16, 2020	Ver/Rev:	Sheet 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in [mm]
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						

## Technical Data Sheet for RTU-C5



Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	08.51	
Unit Tag	RTU-C5	

Unit Overview					
Model Number	Voltage V/Hz/Phase	Design Cooling Capacity UOM_OSelected_CoilTotal	EER@95/75 EAT & 200 CFM/ton		ASHRAE 90.1
			EER	IEER	
DPS010A	460/60/3	114441	12.1	Not Applicable	ASHRAE 90.1-2016 compliant

Unit	
Model Number:	DPS010A
Model Type:	Cooling
Heat Type:	Gas
Hot Gas Reheat:	MHGRH with Combination Space Temperature and Humidity Sensor
Energy Recovery:	ERW-Med Cab-Econ: 2835 cfm max, 100% OA: 5145 cfm max
Application:	Variable Air Volume, Single Zone (Mixed Air or 100% OA)
Controls:	Microtech III
Outside Air:	100% Outside Air
Altitude:	0 ft
Approval	cETLus

Physical			
Dimensions and Weight			
Length	Height	Width	Weight
111.0 in	56.8 in	96.5 in	2718 lb
Corner Weights			
L1	L2	L3	L4
455 lb	440 lb	897 lb	927 lb
Construction			
Exterior	Insulation and Liners	Air Opening Location	
		Return	Supply
Painted Galvanized Steel	1" Injected Foam, R-7, Galvanized Steel Liner	Bottom	Bottom

Electrical			
Unit FLA	MCA	MROPD	SCCR
20.5 A	22.5 A	30 A	5 kAIC
Note:	Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.		



# Technical Data Sheet for RTU-C5

Return/Outside/Exhaust Air			
Outside Air Option			
Type	Damper Pressure Drop		Exhaust Air Type
None	0.09 inH <sub>2</sub> O		Powered, Modulating with Building Pressure Control
Exhaust Fan			
Type	Drive Type		Wheel Diameter
SWSI AF	Direct Drive		14 in
Motor			
(Qty) Horsepower	Type	Efficiency	Full Load Current (Each)
(1) 2.3 HP	ECM	Premium	2.3 A
Performance			
Air Flow CFM	External Static Pressure inH <sub>2</sub> O	Fan Speed RPM	Brake Horsepower HP
2750	1.50	2461	1.60

Energy Recovery										
Design OA Volume		Design Exhaust Volume		Wheel Pressure Drop		Motor HP		Motor FLA		
2700 CFM		2750 CFM		0.51 inH <sub>2</sub> O		0.17 HP		0.4 A		
Summer Conditions										
Temperature								Recovered Capacity Btu/hr	Effectiveness	
Outside Air		Return Air		Wheel Leaving		Mixed Air			Total	Sensible
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
95.0	75.0	75.0	62.0	82.4	67.5	82.4	67.5		77396	62.07
Winter Conditions										
Temperature								Recovered Capacity Btu/hr	Effectiveness	
Outside Air		Return Air		Wheel Leaving		Mixed Air			Total	Sensible
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
7.0	5.0	70.0	50.0	48.5	37.7	48.5	37.7		144130	68.67
Bypass Damper:		No								
Energy Recovery Filters										
Efficiency	Quantity/Size			Face Area		Face Velocity		Air Pressure Drop		
	Outdoor		Exhaust	Outdoor ft²	Exhaust ft²	Outdoor ft/min	Exhaust ft/min	Outdoor inH <sub>2</sub> O	Exhaust inH <sub>2</sub> O	
2 in. MERV 8	(3) 18 in. X 24 in.		(3) 18 in. X 24 in.	9.0	9.0	300.0	305.6	0.11	0.11	
Combined Efficiency Factor										
Application Specific CEF:		13.7								

Filter Section				
Physical				
Type	Quantity / Size		Face Area	Air Pressure Drop
Combo 2"/4" rack with 2" MERV 8	6 / 18 in x 24 in x 2 in		18.0 ft <sup>2</sup>	0.04

## Technical Data Sheet for RTU-C5

### DX Cooling Coil

Physical								
Coil Type	Refrigerant Type	Fins per Inch	Rows	Face Area	Face Velocity	Air Pressure drop	Drain Pan Material	
Cu Tube/ Al Fin	R410A	15	4	15.4 ft²	175.0 ft/min	0.15 inH₂O	Stainless Steel	
Cooling Performance								
Capacity			Indoor Air Temperature					Ambient air Temperature °F
Total Btu/hr	Sensible Btu/hr	Moisture Removal lb/h	Entering		Leaving			
			Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dewpoint °F	
114441	83274	26.8	82.4	67.5	54.2	53.8	53.5	100.0
Condensate Connection Size:		3/4 in. Male NPT						

### Hot Gas Reheat Coil Section

Type	Face Area	Air Pressure Drop	Total Capacity	Leaving Air Temperature	
				Dry Bulb	Wet Bulb
Aluminum Tube Micro-Channel	14.6 ft²	0.03 inH <sub>2</sub> O	46412 Btu/hr	70.0 °F	59.7 °F

### Fan Section

Fan				
Type	Fan Wheel Diameter		Fan Isolation	
SWSI AF	16 in		None	
Performance				
Airflow	Total Static Pressure	Fan Speed	Brake Horsepower	Altitude
2700 CFM	2.5 inH <sub>2</sub> O	2003 rpm	1.64 HP	0 ft
Motor				Drive
Type	Horsepower	Efficiency	FLA	Type
ECM Motor	4.0	Premium	4.0 A	Direct Drive

### Gas Heat Section

Physical						
Airflow	Max Allowable Burner Temp Rise		Size	Connection (Qty) Size		Heat Exchanger Material
2700 CFM	100.0 °F		300 MBH	(1) 0.75 in. Female NPT		Stainless Steel
Performance						
Capacity Btu/hr	Air Temperature Dry Bulb		Air Pressure Drop inH <sub>2</sub> O	Gas Pressure		Modulation
	Entering °F	Leaving °F		Minimum inH <sub>2</sub> O	Maximum inH <sub>2</sub> O	
240000	0.0	81.9	0.12	7	14	Modulating 5:1 Turndown

### Unit Discharge Conditions

Air Temperature				
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
5200	26.8	55.9	54.4	53.5

## Technical Data Sheet for RTU-C5

### Condensing Section

Compressor					
Type	Quantity	Refrigerant Charge lb	Total Power	Capacity Control	Compressor Isolation
Inverter Scroll + Fixed Scroll	2	25.8	8.60 kW	Mod Control with Inverter Compressors	Rubber in Shear
Compressor Amps:					
Compressor 1			4.5 A		
Compressor 2			7.9 A		
Condenser Coil					
Type		Fins per Inch		Fin Material	
Aluminum Microchannel		23		Aluminum	
Condenser Fan Motors					
Number of Motors			Full Load Current (Total)		
2			1.8 A		

### Internal Pressure Drop Calculation

External Static Pressure:	1.50 inH <sub>2</sub> O
Filter:	0.04 inH <sub>2</sub> O
Outside Air:	0.09 inH <sub>2</sub> O
Energy Recovery:	0.62 inH <sub>2</sub> O
DX Coil:	0.15 inH <sub>2</sub> O
Hot Gas Reheat:	0.03 inH <sub>2</sub> O
Gas Heat:	0.12 inH <sub>2</sub> O
Total Static Pressure:	2.55 inH <sub>2</sub> O

### Sound

Sound Power (db)								
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	74	72	80	75	77	71	66	60
Discharge	74	75	83	80	83	77	74	68
Radiated	85	85	81	78	76	71	64	57

### Options

Electrical	
Field Connection:	Non-Fused Disconnect Switch
Power Options:	Phase Failure Monitor

### Factory Installed Sensors

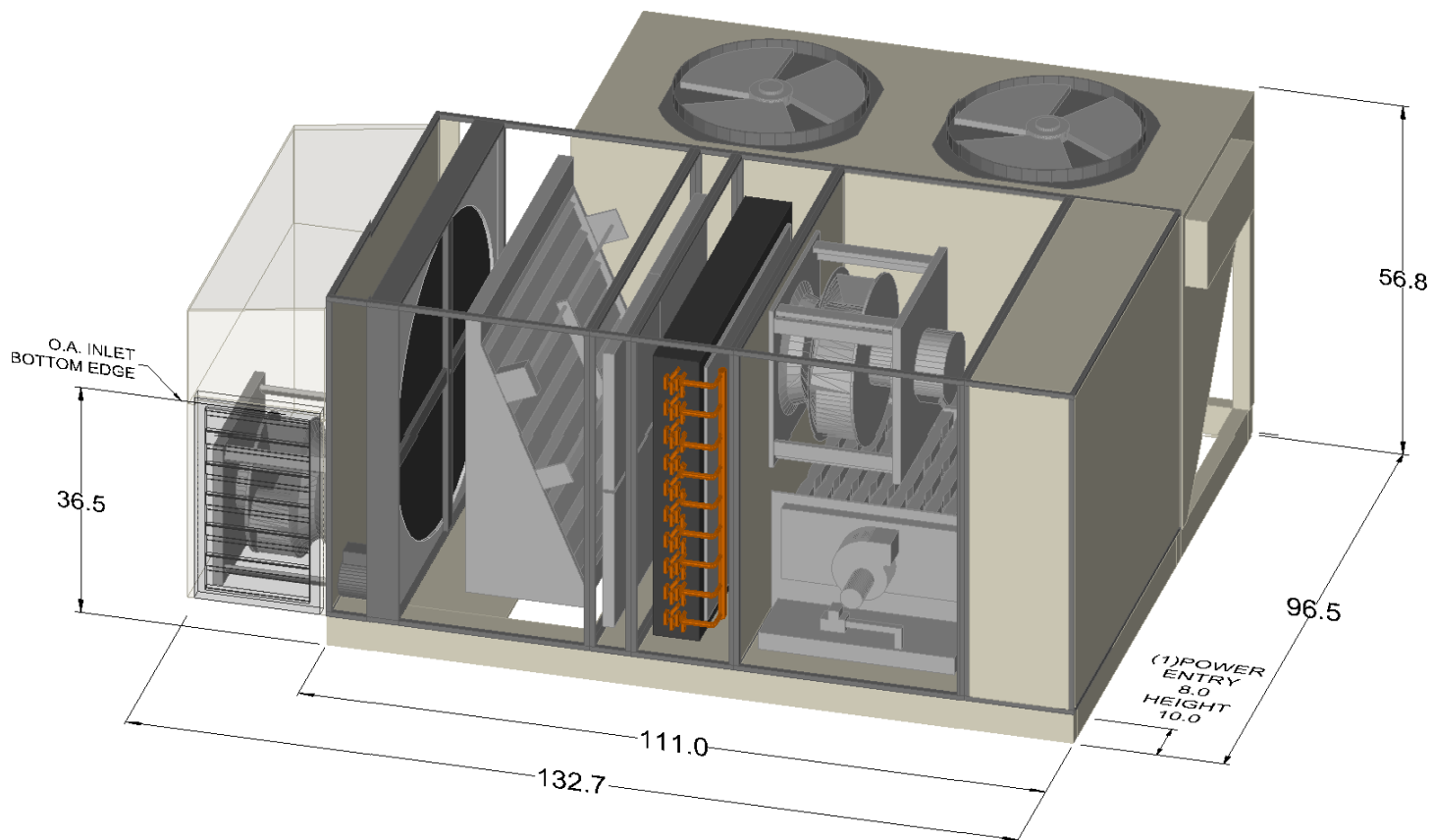
Leaving Coil/Entering Fan Temperature Sensor  
 Duct High Limit Switch  
 Return Air Temperature Sensor  
 Discharge Air Temperature sensor – Wired in unit, mounted in supply duct  
 Outside Air Temperature Sensor  
 Dirty Filter On/Off Switch  
 Supply Fan Air Proving Via Modbus  
 Building Static Pressure Sensor  
 Supply Leaving Wheel Temperature Sensor  
 Exhaust Leaving Wheel Temperature Sensor

Technical Data Sheet for RTU-C5

Warranty	
Parts:	Standard One Year
Compressor:	Standard One Year
Gas Heat Exchanger:	Standard one Year


Notes

Accessories	
Mandatory	
Part Number	Description
910191961	Combo Digital Temp and Humidity Sensor w/Adj setpoint and tenent override
Optional	
Part Number	Description
910134603	14" Roof Curb, W/ERW, Size 007-015



Notes:

- (1) Recommended location for optional field cut side power connection.
- (2) Horizontal gas connection only. Gas pipe routing within the roofcurb is not available.

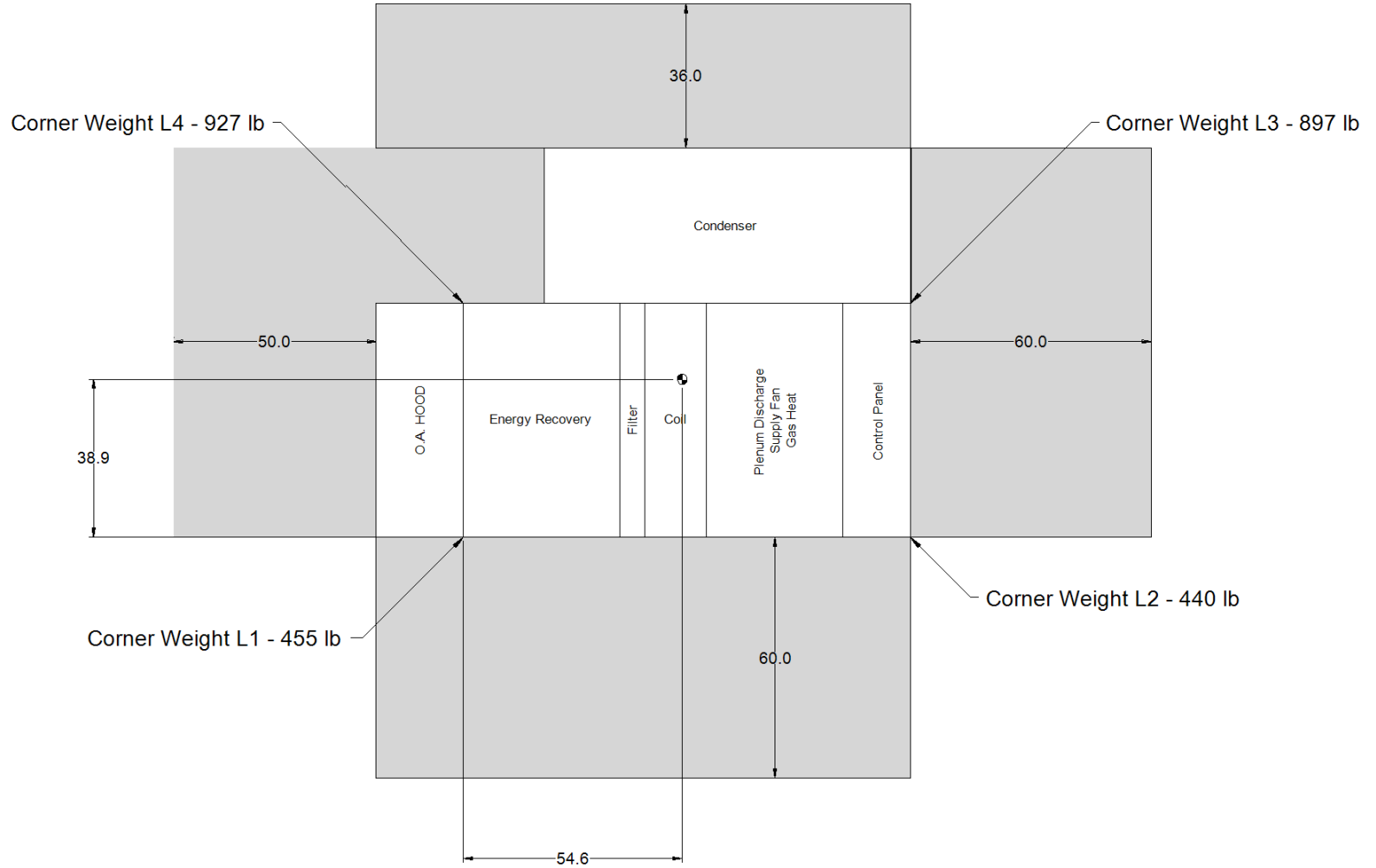
Product Drawing		Unit Tag: RTU-C5			Sales Office: Daikin TMI LLC (Kansas City)			<div></div> <div>13600 Industrial Park Blvd. Minneapolis, MN 55441</div> <div>www.DaikinApplied.com      Software Version: 08.51</div>
Product:		Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: DPS010A		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

The diagram is a plan view of a rectangular unit, labeled "PLAN VIEW - OPENINGS & OVERALL". It shows the layout of various components and their dimensions in inches.

- Overall Dimensions:**
  - Overall Width: 132.7
  - Overall Height: 96.5
- Internal Components and Dimensions:**
  - CONDENSER:** Located at the top, with a width of 62.8 and a height of 29.9.
  - O.A. HOOD:** Located on the left side, with a height of 57.9.
  - Drain/Side Entry:** A rectangular opening with a width of 12.9 and a height of 47.4. It is positioned 25.0 from the left edge and 5.3 from the bottom edge.
  - Gas Conn.:** A rectangular opening with a width of 10.0 and a height of 18.8. It is positioned 102.9 from the left edge and 13.6 from the bottom edge.
  - Power Entry:** A small rectangular opening on the right side, with a width of 10.0 and a height of 20.5.
- Other Dimensions:**
  - Distance from left edge to the start of the condenser: 25.0
  - Distance from the drain to the gas conn.: 62.5
  - Distance from the gas conn. to the right edge: 106.3
  - Distance from the gas conn. to the power entry: 111.0

**Job Number:** 8XB73N **Page** 11/16/2020  
**Job Name:** LSSD Lees Summit HS Remodel 18 of 35 **Prepared Date:** www.DaikinApplied.com



PLAN VIEW - CG, CORNER WEIGHTS, SERVICE CLEARANCE

Notes:

- (1) Center of Gravity Height = 25.9
- (2) Total Weight = 2718 lb

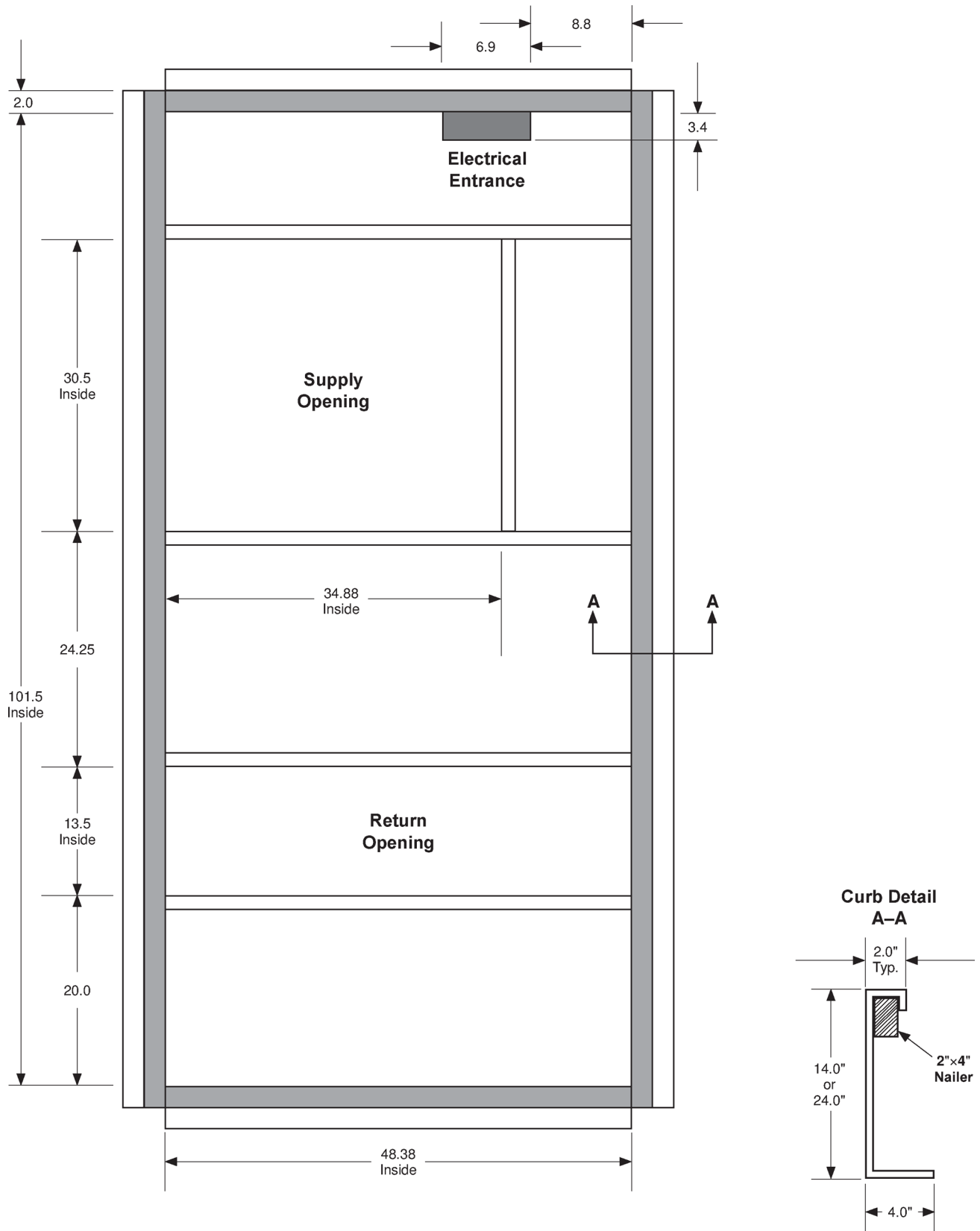
<b>Product Drawing</b>	Unit Tag: RTU-C5			Sales Office: Daikin TMI LLC (Kansas City)		
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:		
Model: DPS010A	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]




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 www.DaikinApplied.com Software Version: 08.51

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

# Large Box Roof Curbs ERW\_Drawing for RTU-C5

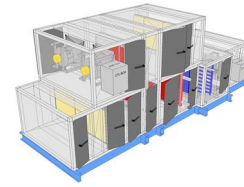


<b>Product Drawing</b>		Unit Tag: RTU-C5		 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 08.51		
Product:		Project Name: LSSD Lees Summit HS				
Model: DPS010A		Sales Office: Daikin TMI LLC (Kansas City)				
Sales Engineer:	Nov. 16, 2020	Ver/Rev:	Sheet 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in [mm]
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						



## Technical Data Sheet for AHU - C6

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	November 16 2020	
Submitted By	JD	
Software Version	12.41	
Unit Tag	AHU - C6	



Unit Overview												
Model Number	Supply						Return/Exhaust					
	Air Volume cfm	Static Pressure		External Dimensions			Air Volume cfm	Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in		External inWc	Total inWc	Height in	Width in	Length in
CAH009GDCM	3400	1.50	4.46	36*	60*	198	3500	1.25	2.93	36*	60*	108

\*Not including base rails, coil connectors, drain connectors and control boxes.

Unit			
Model Number:	CAH009GDCM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	24 gauge G90 Galvanized Steel (unpainted)		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Stacked with opposed air flows	Drive (Handling) Location:	Right
Base:	6" formed channel	Wall Thickness:	2 in
Altitude:	0 ft	Parts Warranty:	Standard One Year

### Exhaust Air Stream

Plenum Section	Component: 1	Length: 14 in	Shipping Section: 4
Opening Location	Opening Size		Air Pressure Drop
End upper	10.00" x 56.00"		0.05 inWc
Panel			
Location	Width		Opening
Removable panels	- in		Outward

Panel Filter		Component: 2		Length: 12 in		Shipping Section: 4	
Type	Efficiency	Face Velocity	Face Area	Air Volume	Filter Loading		
Pleated	MERV 8	397 ft/min	8.8 ft²	3500 cfm	Side		
Air Pressure Drop			Number of Filters	Height	Width	Depth	
Clean Air	Mean Air	Dirty Air					
0.17 inWc	0.58 inWc	1.00 inWc	1	24 in	24 in	2 in	
			1	24 in	20 in	2 in	
			1	24 in	12 in	2 in	
Door							
Location		Width		Opening			
Drive side		8 in		Outward			

## Technical Data Sheet for AHU - C6

Access Section	Component: 3	Length: 24 in	Shipping Section: 4
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	
Drive side	20 in	Outward	

Energy Recovery		Component: 4		Length: 16 in		Shipping Section: 3		
Heat Wheel Model	Media Type	Wheel Diameter	Supply Air Volume	Face Velocity				Segmented Wheel
				Supply Air		Return Air		
				Summer	Winter	Summer	Winter	
ECW 424	Synthetic fiber - 4 angstrom	42 in	3400 cfm	701 ft/min	764 ft/min	734 ft/min	751 ft/min	No
Electrical Supply	Bypass Damper Opening	Pressure Drop				Exhaust Air Volume	Adjustable Purge Plate	Motor Power
		Supply Air		Return Air				
		Summer	Winter	Summer	Winter			
115/60/1 V/Hz/Phase	None	0.98 insWg	0.98 insWg	0.98 insWg	0.98 insWg	3500 cfm	Yes	0.50 HP

Summer Conditions											
Outside Air		Return Air		Supply Air		Exhaust Air		Effectiveness			Total Energy Recovered
Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Latent	Sensible	Total	
96.0 °F	75.0 °F	75.0 °F	62.0 °F	82.0 °F	67.2 °F	88.5 °F	70.4 °F	61.61 %	68.30 %	64.89 %	98565 Btu/hr

Winter Conditions											
Outside Air		Return Air		Supply Air		Exhaust Air		Effectiveness			Total Energy Recovered
Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb	Latent	Sensible	Total	
0.0 °F	0.0 °F	68.0 °F	48.0 °F	44.5 °F	34.3 °F	22.3 °F	19.3 °F	61.76 %	68.32 %	67.64 %	189274 Btu/hr

AHRI 1060 Certification											
Application Rating is outside of the scope of AHRI ERV Certification Program but is rated in accordance with AHRI Standard 1060.											
Door											
Location				Width				Opening			
Drive side				12 in				Outward			

Access Section	Component: 5	Length: 18 in	Shipping Section: 1
Air Pressure Drop			
0.00 inWc			
Door			
Location	Width	Opening	
Drive side	14 in	Outward	

## Technical Data Sheet for AHU - C6

Return/Exhaust Fan Array				Component: 6		Length: 24 in		Shipping Section: 1					
Fan Performance													
Air Volume*	Static Pressure			Fan Energy Index(FEI)*	Total Input Power*	Fan Shaft Power*	Speed		Redundancy(N-1)	Fan Circuit			
	External	Total	Cabinet				Operating	Maximum			MOP	MCA	
1750 cfm	1.25 inWc	2.93 inWc	0.07 inWc	-	-	1.17 BHP	2324 rpm	3230 rpm	96.2 %	15.0 A	9.2 A		
Fan Data													
Fan Type		Blade Type / Class		Quantity of Fans		Wheel Diameter		Number of Blades		Discharge		Motor Location	
ECM / 1x2 : 2		Airfoil / N/A		2		13.98 in		5		Top, single opening		Behind Fan	
Motor Data													
Power*		Electrical Supply		Speed		Control Signal		Supplier		Lock Rotor Current*		Full Load Current*	
3.3 HP		460/60/3 V/Hz/Phase		3230 rpm		0-10V		EBM-Papst		4.10 A		4.10 A	
Fan Options													
Isolator Type:				Rigid									
VFD/Starter/Disconnect Data													
Selection Type:				Integrated Drive				Vendor:		Daikin Applied			
Auxiliary Control:				Disconnect w/ motor starter				Voltage:		460 v			
Disconnect Type:				Fused				Height x Width x Depth:		15.75 in x 11.81 in x 10.76 in			
Mounting:				Drive Side				Enclosure:		NEMA 3R			
Door													
Location				Width				Opening					
Non-drive side				20 in				Outward					
Notes													
* after a unit label denotes the data for an individual fan.													

### Supply Air Stream

Plenum Section		Component: 1		Length: 14 in		Shipping Section: 2	
Opening Location		Opening Size		Air Pressure Drop			
Top		10.00" x 56.00"		0.05 inWc			
Door							
Location		Width		Opening			
Drive side		10 in		Outward			
Access Section		Component: 2		Length: 12 in		Shipping Section: 2	
Air Pressure Drop							
0.00 inWc							
Panel							
Location		Width		Opening			
Removable panels		- in		Outward			

## Technical Data Sheet for AHU - C6

Combination Filter			Component: 3			Length: 16 in			Shipping Section: 2		
Access			Face Velocity			Face Area			Air Volume		
Side			387 ft/min			8.8 ft²			3400 cfm		
Portion	Type	Efficiency	Air Pressure Drop			Number of Filters	Height	Width	Depth		
			Clean Air	Mean Air	Dirty Air						
Pre-Filter	Pleated	MERV 8	0.16 inWc	0.58 inWc	1.00 inWc	1	24 in	24 in	2 in		
						1	24 in	20 in	2 in		
						1	24 in	12 in	2 in		
Filter	Pre Pleat	MERV 13	0.16 inWc	0.58 inWc	1.00 inWc	1	24 in	24 in	4 in		
						1	24 in	20 in	4 in		
						1	24 in	12 in	4 in		
Door											
Location			Width			Opening					
Drive side			12 in			Outward					

Access Section		Component: 4		Length: 18 in		Shipping Section: 2	
Air Pressure Drop							
0.00 inWc							
Door							
Location		Width		Opening			
Drive side		14 in		Outward			

Energy Recovery Section	Component: 5	Length: 16 in	Shipping Section: 3
See Exhaust Air Stream			

Access Section		Component: 6		Length: 24 in		Shipping Section: 5	
Air Pressure Drop							
0.00 inWc							
Door							
Location		Width		Opening			
Drive side		20 in		Outward			

# Technical Data Sheet for AHU - C6

Hot Water Coil		Component: 7		Length: 22 in		Shipping Section: 5	
Coil Model	Total Capacity	Number of Coils		Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)
5WH1102B	355386 Btu/hr	1		2	11	0.625 in	1.50 in x 1.299 in
Air Volume	Air Temperature		Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering	Leaving					
	Dry Bulb	Dry Bulb					
3400 cfm	0.0 °F	95.6 °F	0.15 inWc	27 in	44 in	8.25 ft²	412 ft/min
Water		Flow Rate	Pressure Drop	Velocity	Volume	Weight	
Entering	Leaving						
180.0 °F	159.9 °F	35.30 gpm	5.50 ftHd	4.20 ft/s	3.0 gal	29.00 lb	
Connection [Data Per Coil]				Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor	
Type	Size	Location	Material				
Threaded	2.50 in	Drive side	Carbon steel	159.9 °F	159.9 °F	0.000	
Material							
Fin		Tube		Header		Case	
Aluminum .0075 in		Copper .020 in		Copper		Galv. steel	

## AHRI 410 Certification



Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org)

Door		
Location	Width	Opening
Drive side	10 in	Outward

Chilled Water Coil		Component: 8			Length: 38 in		Shipping Section: 6		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)		
5WH1008B	144980 Btu/hr	107066 Btu/hr	1	8	10	0.625 in	1.50 in x 1.299 in		
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
3400 cfm	82.0 °F	67.0 °F	53.2 °F	53.0 °F	0.52 inWc	27 in	53 in	9.94 ft²	342 ft/min
Fluid		Flow Rate	Pressure Drop	Velocity	Volume	Weight			
Entering	Leaving								
44.0 °F	58.1 °F	21.00 gpm	8.60 ftHd	2.50 ft/s	10.0 gal	90.00 lb			
Connection [Data Per Coil]				Glycol Type	Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	1.50 in	Drive side	Carbon steel	Propylene (20%)	44.0 °F	44.0 °F	0.000		
Material					Drain Pan		Drain Side		
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel	Stainless steel	Drive side				

## AHRI 410 Certification

Coil is NOT certified by AHRI

Door		
Location	Width	Opening
Drive side	18 in	Outward

## Technical Data Sheet for AHU - C6

Supply Fan Array				Component: 9		Length: 24 in			Shipping Section: 7				
Fan Performance													
Air Volume*	Static Pressure			Fan Energy Index(FEI)*	Total Input Power*	Fan Shaft Power*	Speed		Redundancy(N-1)	Fan Circuit			
	External	Total	Cabinet				Operating	Maximum			MOP	MCA	
1700 cfm	1.50 inWc	4.46 inWc	0.00 inWc	-	-	1.82 BHP	2721 rpm	3230 rpm	77.7 %	15.0 A	6.8 A		
Fan Data													
Fan Type		Blade Type / Class		Quantity of Fans		Wheel Diameter		Number of Blades		Discharge		Motor Location	
ECM / 1x2 : 2		Airfoil / N/A		2		13.98 in		5		Axial		Behind Fan	
Motor Data													
Power*		Electrical Supply		Speed		Control Signal		Supplier		Lock Rotor Current*		Full Load Current*	
2.3 HP		460/60/3 V/Hz/Phase		2870 rpm		0-10V		EBM-Papst		3.00 A		3.00 A	
Fan Options													
Isolator Type:			Rigid										
VFD/Starter/Disconnect Data													
Selection Type:			Integrated Drive				Vendor:			Daikin Applied			
Auxiliary Control:			Disconnect w/ motor starter				Voltage:			460 v			
Disconnect Type:			Fused				Height x Width x Depth:			15.75 in x 11.81 in x 10.76 in			
Mounting:			Drive Side				Enclosure:			NEMA 3R			
Door													
Location				Width				Opening					
Non-drive side				20 in				Outward					
Notes													
* after a unit label denotes the data for an individual fan.													

Plenum Section		Component: 10		Length: 14 in		Shipping Section: 7	
Opening Location		Opening Size		Air Pressure Drop			
End upper		10.00" x 56.00"		0.10 inWc			
Panel							
Location		Width		Opening			
Removable panels		- in		Outward			
Special Options							
Tread Plate Floor Liner							
Tread plate installed							

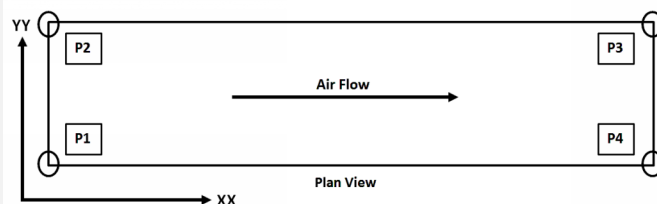
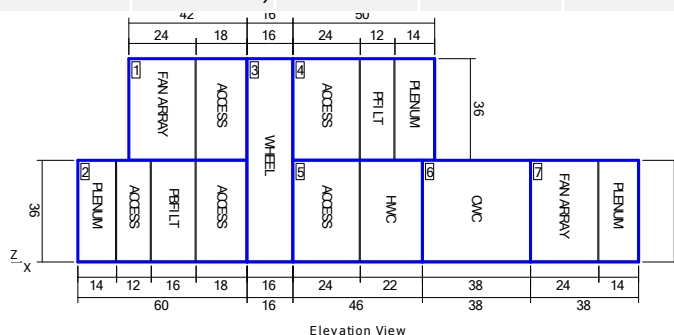
Unit Sound Power (dB)								
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	64	63	68	52	47	42	46	51
Unit Discharge:	64	63	80	61	61	59	58	54
Unit Return:	64	66	72	63	59	61	57	51

## Technical Data Sheet for AHU - C6

### Shipping Section Details

Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	42	444	95	106	127	116	23	32	24
2	60	514	121	121	135	135	32	30	21
3	16	518	122	122	137	137	8	30	39
4	50	356	85	85	93	93	26	30	24
5	46	497	112	107	136	141	26	29	20
6	38	774	242	227	144	160	15	32	20
7	38	575	164	175	124	112	16	31	19
Entire Unit	198	3678	n/a	n/a	n/a	n/a	n/a	n/a	n/a

Lower level only



NOTE: Special components aren't included in the corner weights and center of gravity data.

### Supply Static Pressure Drop

Component	Option	Static Pressure Drop
Plenum Section	Plenum Section	0.05 insWg
Access Section	Access Section	-
Panel and Bag Filter	Panel and Bag Filter	1.16 insWg
Access Section	Access Section	-
Energy Recovery Section	Summer	0.98 insWg
Access Section	Access Section	-
Hot Water Coil	Hot Water Coil	0.15 insWg
Chilled Water coil	Chilled Water coil	0.52 insWg
Supply Fan	Cabinet	-
Plenum Section	Plenum Section	0.10 insWg
External Static	External Static	1.50 insWg
Total Supply Static		4.46 insWg

### Exhaust Static Pressure Drop

Component	Option	Static Pressure Drop
Plenum Section	Plenum Section	0.05 insWg
Panel Filter	Panel Filter	0.58 insWg
Access Section	Access Section	-
Energy Recovery Section	Summer	0.98 insWg
Access Section	Access Section	-
Return Fan	Cabinet	0.07 insWg
External Static	External Static	1.25 insWg
Total Return/Exhaust Static		2.93 insWg

Technical Data Sheet for AHU - C6

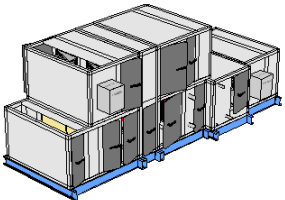
AHRI Certification

The air-handler is selected outside of the scope of AHRI Standard 430/431

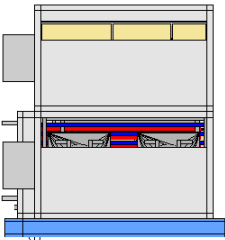
Notes

Standard
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.

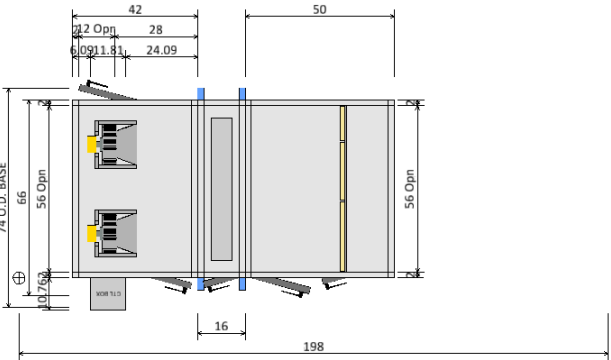




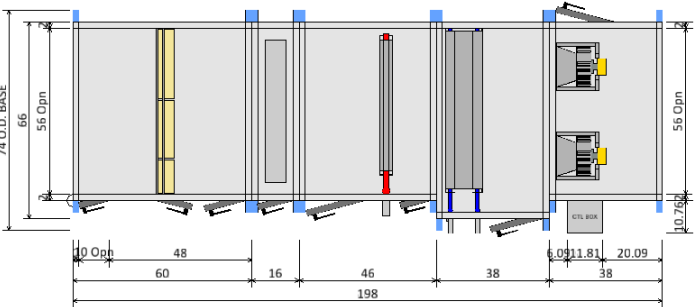
ISOMETRIC VIEW



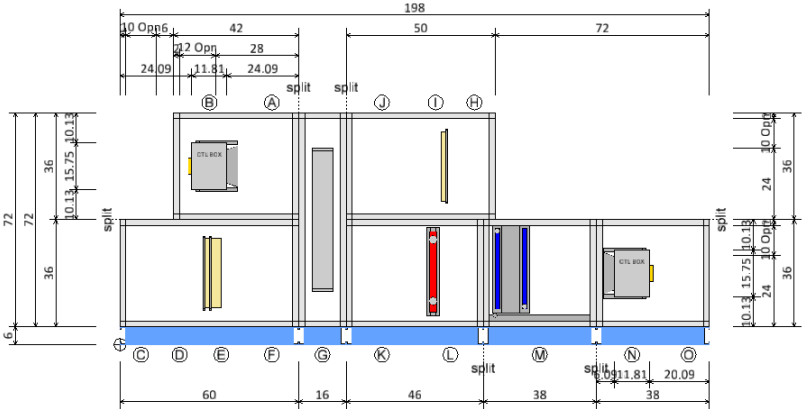
REAR END VIEW



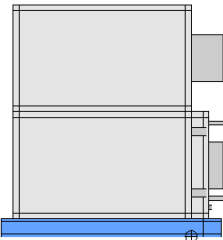
TOP DECK PLAN VIEW




BOTTOM DECK PLAN VIEW

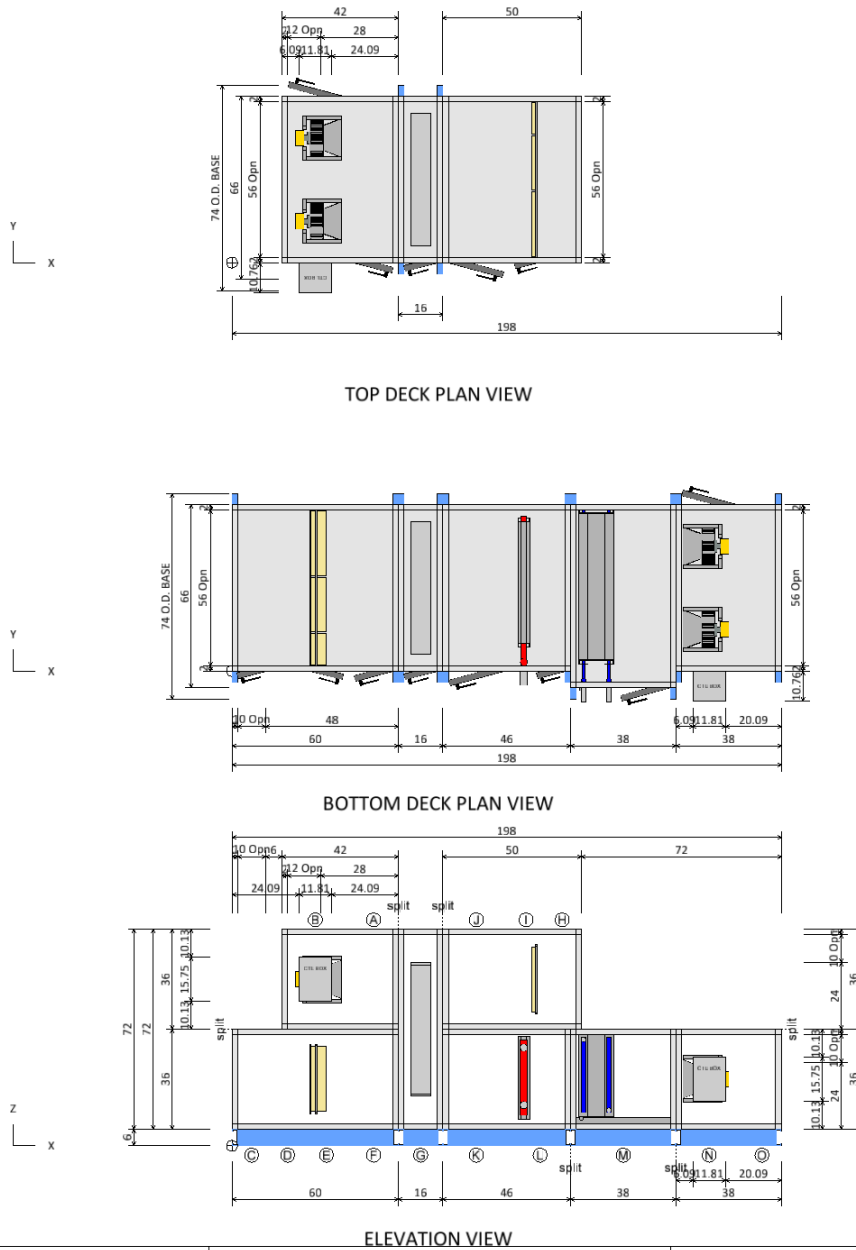


ELEVATION VIEW



FRONT END VIEW

Product Drawing	Unit Tag: AHU - C6			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Vision Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: CAH009GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	



Component Key	
(A) Access Section	
Right Door (WxH):	14 ins x 32 ins
Return Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	355 (2)
Air Flowrate:	1750.0 cfm
T.S.P.:	2.9 insWg
Motor Power:	3.3 HP
Control box door swing:	11.81 ins
Left Door (WxH):	20 ins x 32 ins
(B) Plenum Section	
Opening Location:	Top
Opening Size:	10 ins x 56 ins
Right Door (WxH):	10 ins x 32 ins
(C) Access Section	
Panel and Bag Filter	
Pre Filter Type:	Pleated (MERV 8)
Bag Filter Type:	Pre Pleat M13
Right Door (WxH):	12 ins x 32 ins
(D) Access Section	
Right Door (WxH):	14 ins x 32 ins
Energy Recovery Wheel	
Model:	ECW 424
(E) Winter Capacity:	189274.0 Btu/hr
Summer Capacity:	98565.4 Btu/hr
Right Door (WxH):	12 ins x 32 ins
(F) Plenum Section	
Opening Location:	End upper
Opening Size:	10 ins x 56 ins
(G) Panel Filter	
Filter Type:	Pleated (MERV 8)
Right Door (WxH):	8 ins x 32 ins
(H) Access Section	
Right Door (WxH):	20 ins x 32 ins
(I) Access Section	
Right Door (WxH):	20 ins x 32 ins
(J) Hot Water Coil	
Coil Model:	5WH1102B
Total Capacity:	355386.0 Btu/hr
Right Door (WxH):	10 ins x 32 ins
(K) Chilled Water coil	
Coil Model:	5WH1008B
Total Capacity:	144980.0 Btu/hr
Right Door (WxH):	18 ins x 26 ins
(L) Supply Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	355 (2)
Air Flowrate:	1700.0 cfm
T.S.P.:	4.5 insWg
Motor Power:	2.3 HP
Control box door swing:	11.81 ins
Left Door (WxH):	20 ins x 32 ins
(M) Plenum Section	
Opening Location:	End upper
Opening Size:	10 ins x 56 ins
(N) Access Section	
Right Door (WxH):	20 ins x 32 ins

Product Drawing

Product: Vision Air Handler

Model: CAH009GDCM

Unit Tag: AHU - C6

Project Name: LSSD Lees Summit HS Remodel

Nov. 16, 2020

Ver/Rev:

Sheet: 1 of 1

Sales Office: Daikin TMI LLC (Kansas City)

Sales Engineer:

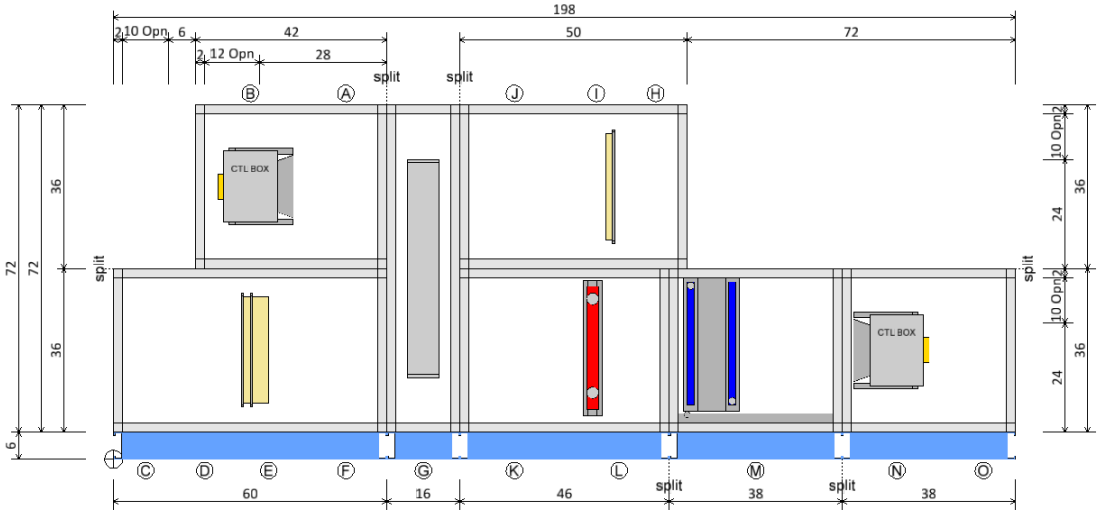
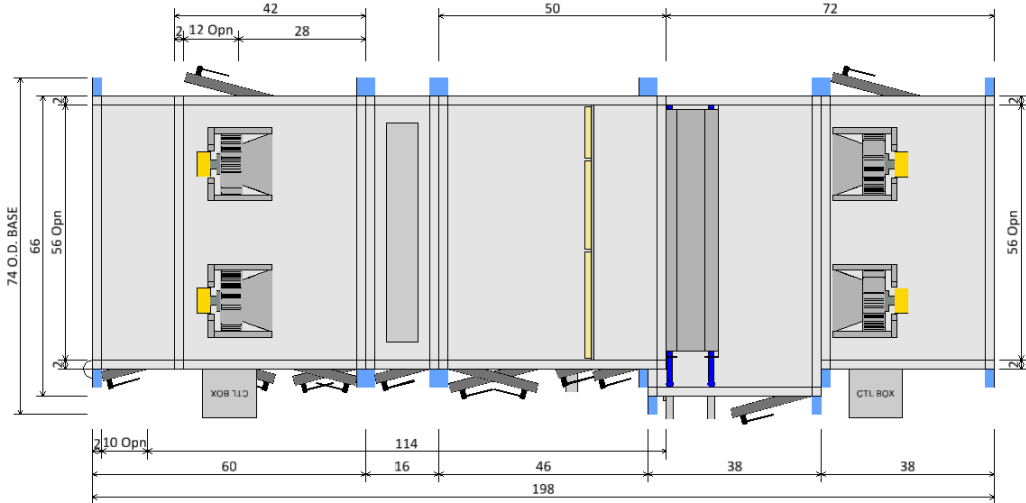
Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in




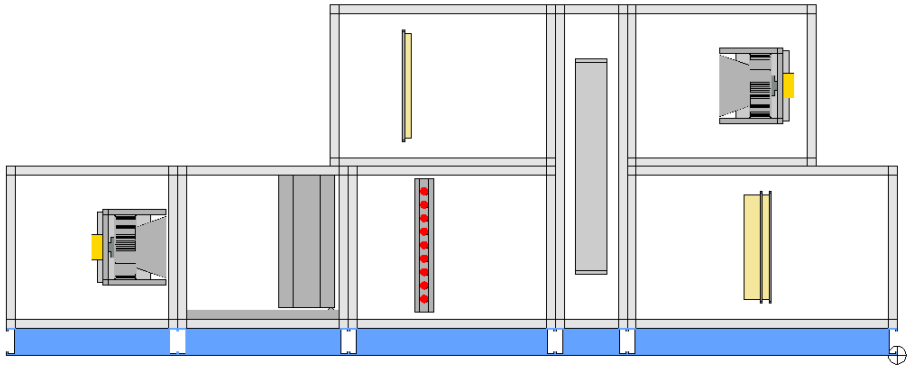
13600 Industrial Park Blvd, Minneapolis, MN 55441  
www.DaikinApplied.com Software Version: 12.41



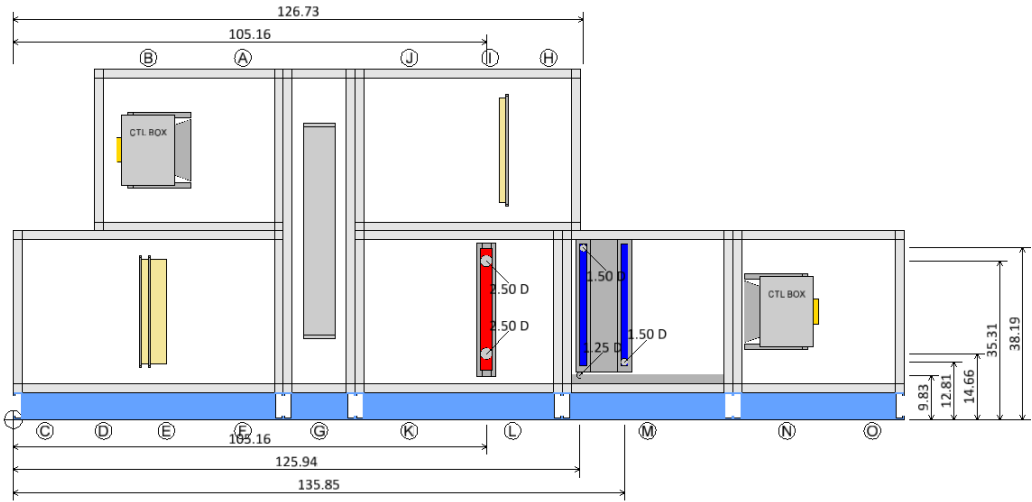
Component Key					
Type	X	Y	Z	Wid	Hgt
(B) Return Fan	20.00	2.00	78.00	56.00	12.00
(C) Fan Discharge	2.00	2.00	42.00	56.00	10.00
(H) Plenum Section Opening	126.00	2.00	66.00	56.00	10.00
(O) Plenum Section Opening	198.00	2.00	30.00	56.00	10.00

Note: Dimensions are measured from the origin point.

Opening/Damper Connections	Unit Tag: AHU - C6			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Vision Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: CAH009GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	




LEFT ELEVATION VIEW

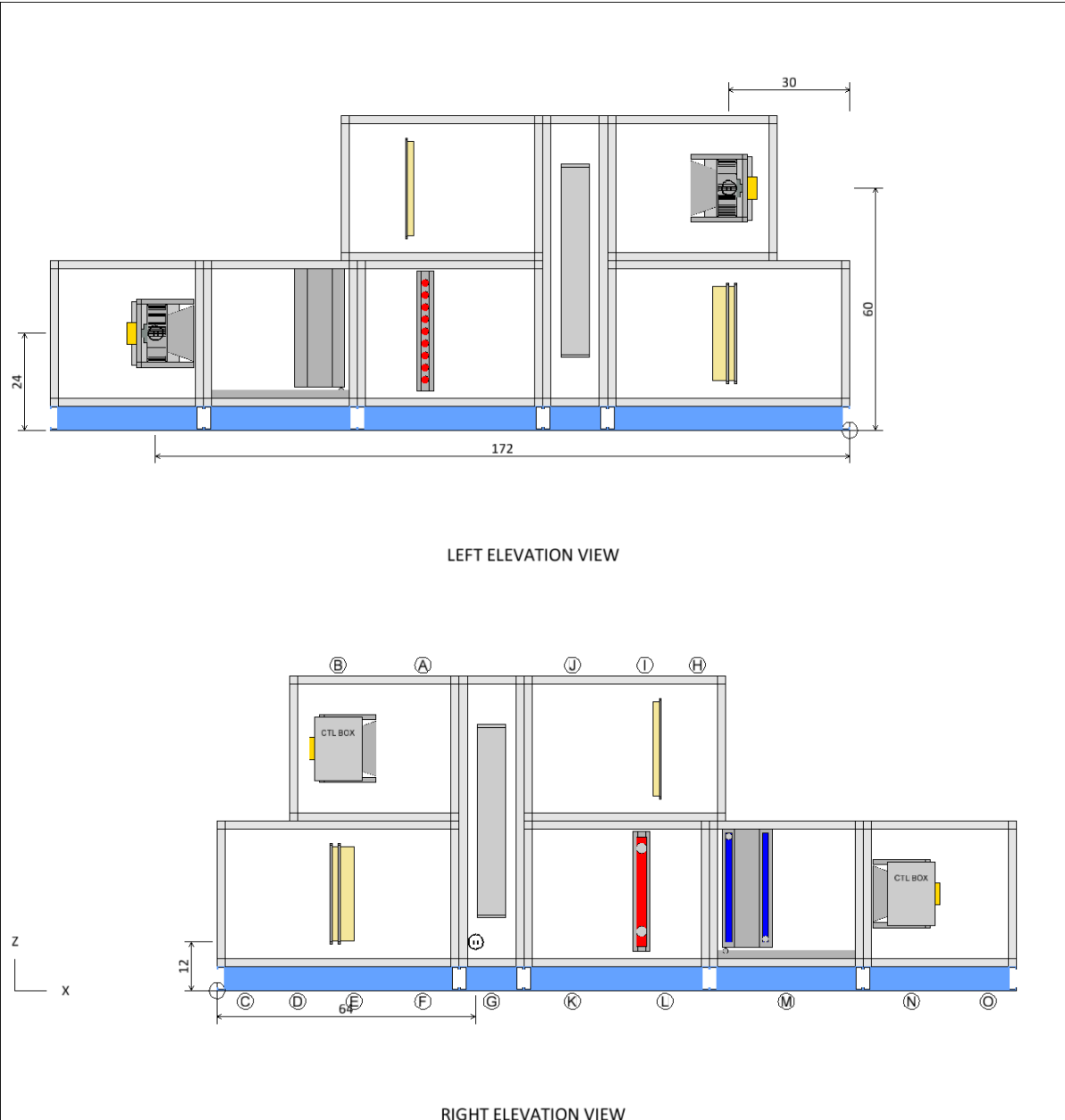


RIGHT ELEVATION VIEW


Coil and Drain Connections					
	Type	X	Y	Z	Diam
Ⓐ	Hot Water Coil				
	Hot water inlet:	105.16	-7.00	14.66	2.50
	Hot water outlet:	105.16	-7.00	35.31	2.50
Ⓜ	Chilled Water coil				
	Condensate drain conn:	125.94	-8.90	9.83	1.25
	Cold water inlet:	135.85	-13.00	12.81	1.50
	Cold water outlet:	126.73	-13.00	38.19	1.50

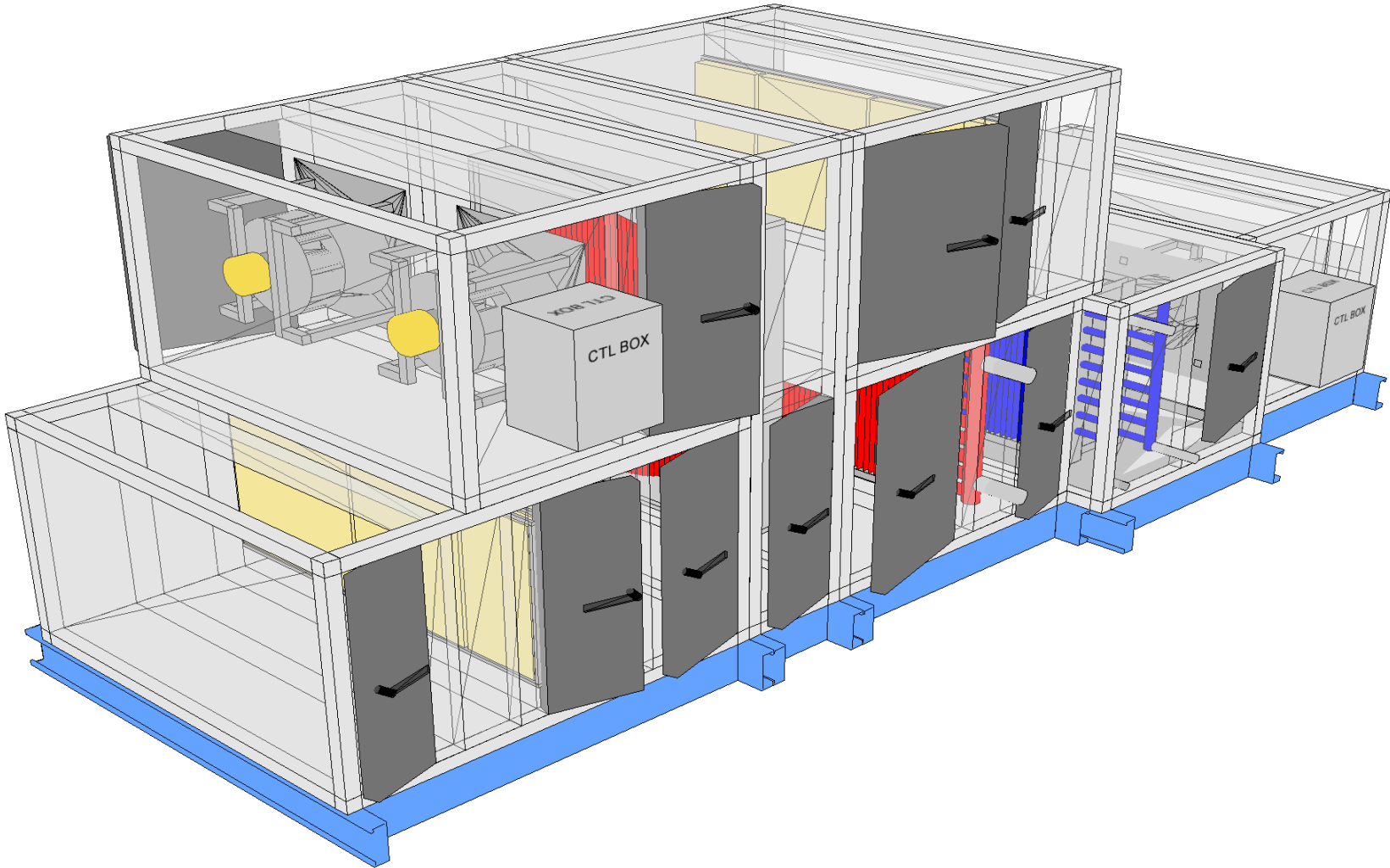
Note: Dimensions are measured from the origin point.


Coil and Drain Connections		Unit Tag: AHU - C6			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Vision Air Handler		Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: CAH009GDCM		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	



Component Key						
	Type	X	Y	Z	Volts	Phase
Ⓑ	Return Fan Fan	30.00	60.00	60.00	460	3
Ⓒ	Energy Recovery Wheel Heatwheel	64.00	2.00	12.00	115	1
Ⓓ	Supply Fan Fan	172.00	60.00	24.00	460	3
Note: Dimensions are measured from the origin point.						

Electrical Connections	Unit Tag: AHU - C6			Sales Office: Daikin TMI LLC (Kansas City)			<div></div> <div>13600 Industrial Park Blvd, Minneapolis, MN 55441</div> <div>www.DaikinApplied.com    Software Version: 12.41</div>
Product: Vision Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: CAH009GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	



Product Drawing	Unit Tag: AHU - C6			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Vision Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: CAH009GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

## Document Summary Page

## Equipment Information – Daikin Air-Cooled Screw Chiller

### Technical Data (AWS310C)

Job Information		Technical Data Sheet
Job Name	LSSD Chillers	
Date	1/21/2014	
Submitted By	Duane Rothstein	
Software Version	04.20	
Unit Tag	Lees Summit Schools	



Unit Overview						
Model Number	Capacity ton	IPLV EER	Voltage	Unit Starter Type	ASHRAE 90.1	LEED EA Credit 4
AWS310CDP	284.6	19.4	460 / 60 / 3	VFD (without EMI Filters)	'07, '10, '13	Pass

Unit						
Unit Type				Platform		Unit Revision
Air-Cooled Screw Compressor Chiller				Packaged		00
Head Pressure				Tubing		
VFD [First Fans / Circuit]				With Liquid Line Solenoid and Discharge Shut-off Valve		
Display						
On Controller only						
Refrigerant Type				Refrigerant Weight		
R134-a				500 lb (entire chiller)		
Approval						
ETL/cETL, AHRI & ASHRAE 90.1						
Evaporator						
Connection:	Victaulic / Left Hand					
Insulation:	Single Layer Insulation on Evaporator					
Entering Fluid Temperature	Leaving Fluid Temperature	Fluid Type	Fluid Flow	Fluid Flow Min / Max	Pressure Drop	Fouling Factor
54.0 °F	44.0 °F	Water	683.0 gpm	218.2 / 1042.6 gpm	17.6 ft H <sub>2</sub> O	0.00010 °F.ft².h/Btu
Condenser						
Coil Fins:	Aluminum Fin					
Guards:	Condenser Coil Grilles only					
Ambient Air Temperature	Altitude	Fan Diameter	Fan Motor Horsepower	Fan Speed	Low Ambient Control to	Unit Airflow
105.0 °F	1000 ft	31.5 in	1.4 hp	850 RPM	0.0 °F	221700 CFM



# Bldg. A – Replace York Chiller with one (1) Daikin (AWS310C) Screw Chiller

Unit Performance										
Design										
Capacity		Input Power			Efficiency			IPLV		
284.6 ton		355.4 kW			9.6 EER			19.4 EER		
Performance Points rated at AHRI Ambient Relief										
Unit					Evaporator				Condenser	
Point #	% Load	Capacity ton	Input Power kW	Efficiency EER	Fluid Flow gpm	Pressure Drop ft H <sub>2</sub> O	Entering Fluid Temperature °F	Leaving Fluid Temperature °F	Ambient Air Temperature °F	Altitude ft
1	100.0	284.6	355.4	9.6	683.0	17.6	54.0	44.0	105.0	1,000
2	75.0	213.4	160.8	15.9	683.0	17.6	51.5	44.0	86.3	1,000
3	50.0	142.3	88.4	19.3	683.0	17.6	49.0	44.0	67.5	1,000
4	25.0	71.1	38.7	22.1	683.0	17.6	46.5	44.0	55.0	1,000

Sound (without insulation)											
Sound Pressure (at 30 feet)											
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
80	71	70	69	68	61	57	50	<b>72</b>	68	66	65
Sound Power											
63 Hz dB	125 Hz dB	250 Hz dB	500 Hz dB	1 kHz dB	2 kHz dB	4 kHz dB	8 kHz dB	Overall dBA	75% Load dBA	50% Load dBA	25% Load dBA
107	98	97	96	95	87	83	76	<b>98</b>	95	93	92

Octave band is non 'A' weighted and overall readings are 'A' weighted. Sound data rated in accordance with AHRI Standard-370.

Physical				
Unit				
Length	Height	Width	Shipping Weight*	Operating Weight*
396 in	100 in	88 in	20832 lb	22485 lb
* Shipping and operating weights do not include the weights of any Options or Accessories. Contact Chiller Applications for additional information.				

Electrical				
Unit Electrical Data				
Voltage	Starter Type	Fan Motor Quantity	LRA Fan Motor (each)	FLA Fan Motors (each)
460 / 60 / 3	VFD (without EMI Filters)	20	14 A	3.4 A
Power Connection Type:	Single Point Disconnect Switch with Circuit Breakers			
Phase Voltage:	None (PVM included as part of Solid State / VFD)			
Single Point Power Connection				
MCA:	568.6 A			
Field Wire Gauge:	300 MCM			
Field Wire Quantity:	6			
Conduit Quantity:	2			
Conduit Nom Size:	2.5			
Fuse Size (recommended):	700 A			
Fuse Size (maximum):	800 A			
Connector Wire Size:	600 A			
Connector Wire Range:	(2) 3/0-500MCM			

## Bldg. A – Replace York Chiller with one (1) Daikin (AWS310C) Screw Chiller

Compressor Electrical Data		
Compressor Type	Compressor Quantity	Starter Type
Screw	2	VFD (without EMI Filters)
	Compressor #	
	1	2
RLA:	203 A	238 A
Inrush Current:	203 A	238 A

*The electrical data is valid for copper power supply wires only. The use of aluminum wires for incoming unit power supply is acceptable for certain models. Please contact your local sales office for more information.*

### Options

Basic Unit	
Control Box Ambient:	High Ambient with Exhaust Fans (125°F maximum)
Motor Cooling:	With Additional Liquid Injection Cooling
Control	
Communication:	BACnet IP

### Warranty

Unit Startup:	Domestic
Standard Warranty:	1st Year Entire Unit Parts & Labor
Extended Compressor Warranty:	Compressor Only; extended 4 years parts & labor

### AHRI Certification



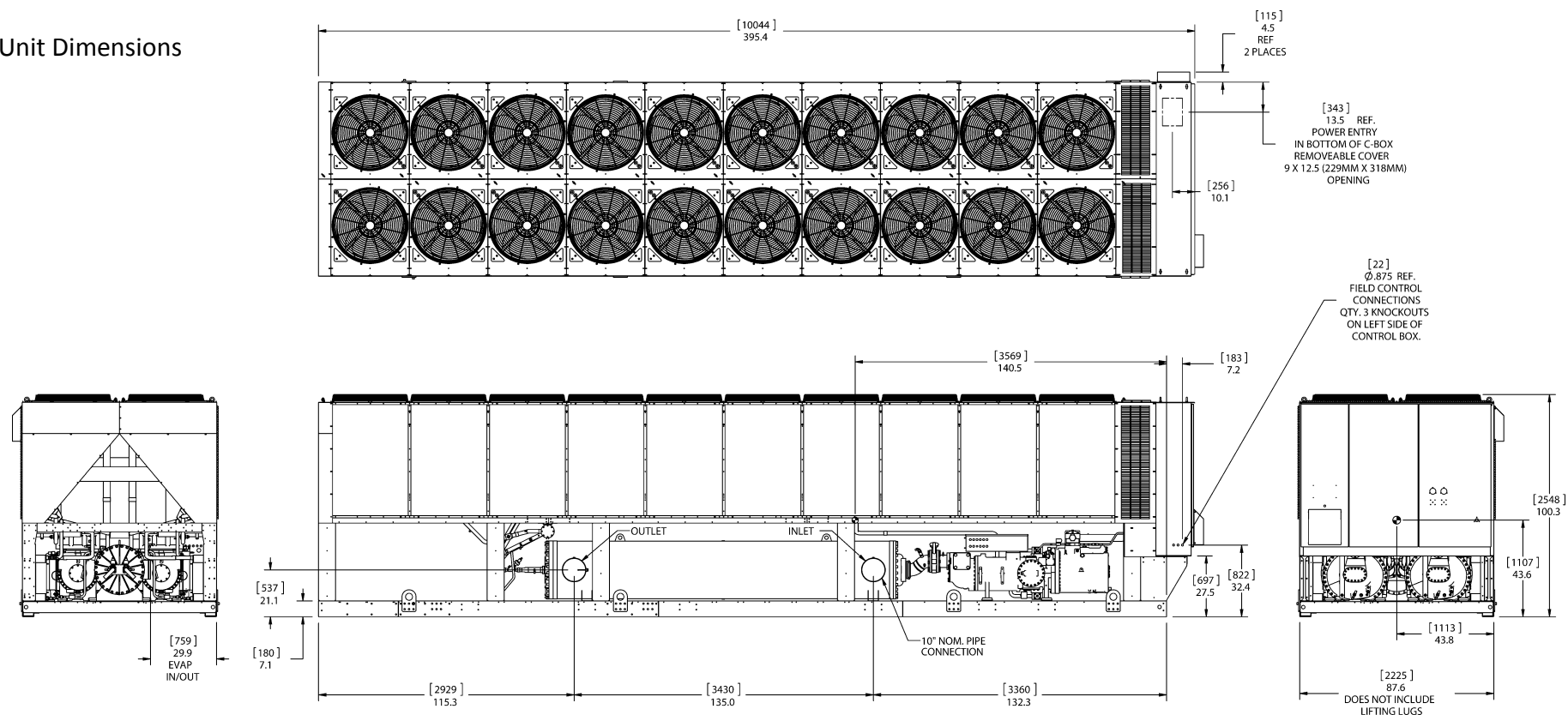
Certified in accordance with the AHRI Air-Cooled Water Chilling Packages Using Vapor Compression Cycle Certification Program, which is based on AHRI Standard 550/590 (I-P) Certified units may be found in the AHRI Directory at [www.ahridirectory.org](http://www.ahridirectory.org).

### Accessories

Optional	
Part Number	Description
017503301	Flow Switch, Paddle, 3-8" Dia, 150PSI, Qty 1 (Not WDC)


# AWS310CDP 460V Premium Efficiency with Packaged Evaporator and Compressor VFD

## Unit Dimensions



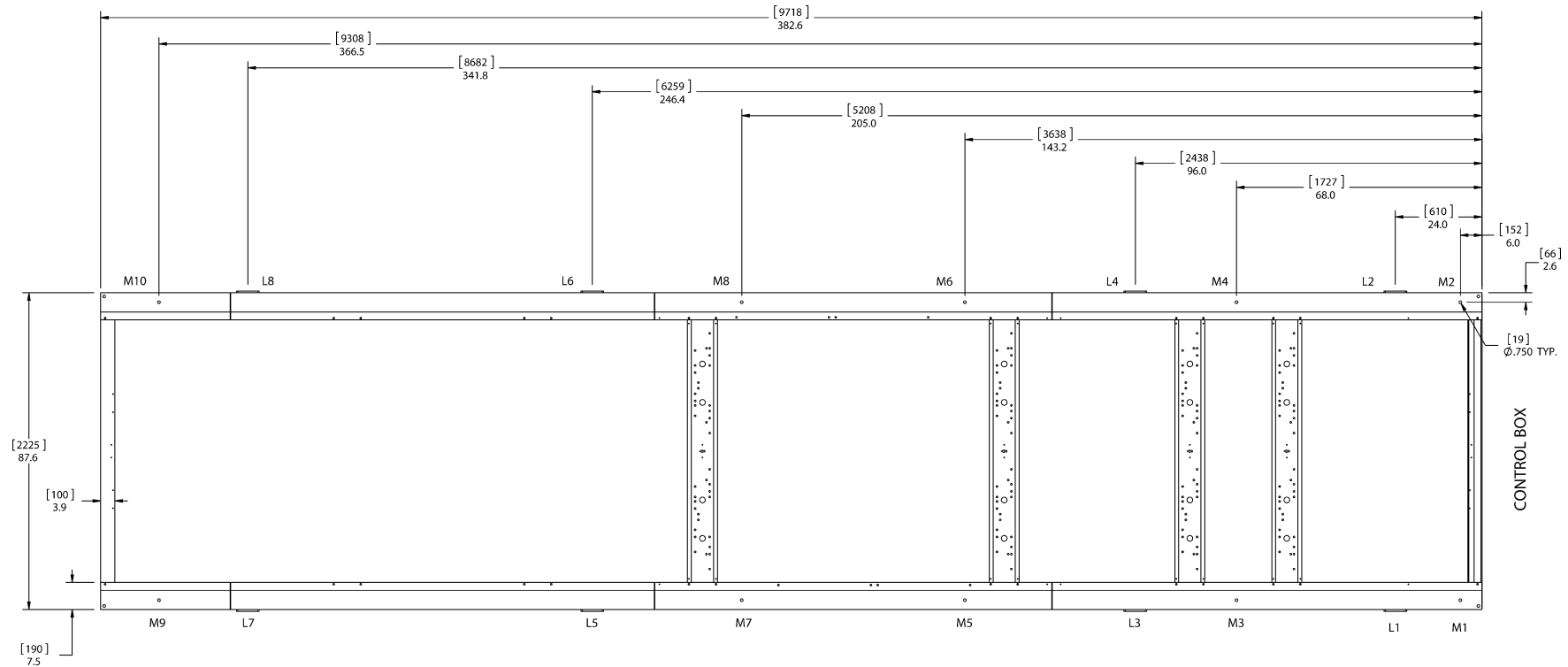
Center of Gravity Dimensions					
X		Y		Z	
in	mm	in	mm	in	mm
43.8	1113	43.6	1107	140.5	3569

Dimension Notes
The water connection shown is for the default configuration; your unit may be configured differently. Consult the Item Summary sheet for exact configuration.


<b>Product Drawing</b>	Unit Tag: Lees Summit Schools	Sales Office: National Accounts	 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com Software Version: 04.20
Product: Air-Cooled Screw Chiller	Project Name: LSSD Chillers	Sales Engineer: Duane Rothstein	
Model: AWS310CDP	Jan. 17, 2014 Ver/Rev:	Sheet: 1 of 2 Scale: NTS Tolerance: +/- 1.0" Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

## Mounting and Lifting



Unit Weight Data																					
Units	Weight			Lifting Weight								Mounting Load									
	Shipping	Operating	Copper Fins	L1	L2	L3	L4	L5	L6	L7	L8	M1	M2	M3	M4	M5	M6	M7	M8	M9	M10
lb	20624	23624	2968	3509	3509	3071	3071	2156	2156	1576	1576	2763	2763	2599	2599	2401	2401	2238	2238	1811	1811
kg	9355	10716	1346	1592	1592	1393	1393	978	978	715	715	1253	1253	1179	1179	1089	1089	1015	1015	821	821

<b>Product Drawing</b>		Unit Tag: Lees Summit Schools			Sales Office: National Accounts			
Product: Air-Cooled Screw Chiller		Project Name: LSSD Chillers			Sales Engineer: Duane Rothstein			
Model: AWS310CDP		Jan. 17, 2014	Ver/Rev:	Sheet: 2 of 2	Scale: NTS	Tolerance: +/- 1.0"	Dwg Units: in [mm]	
13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 04.20								
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.								



# SUBMITTAL DATA

for

LSSD Lees Summit HS Remodel

Prepared for

Henderson Engineers

Job Number: 8XB73N

Customer PO#:

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Prepared by

David Duckworth

11/16/2020

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## Technical Data Sheet for RTU A12 MAV2

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	10.01	
Unit Tag	RTU A12 MAV2	



Unit Overview					
Model Number	Voltage	Design Cooling Capacity	AHRI 360 Standard Efficiency		ASHRAE 90.1
			EER	IEER	
MPS040F	460/60/3	418681 Btu/hr	10.1	13	2016 Compliant

Unit	
Model Number:	MPS040F
Model Type:	Cooling, Standard Efficiency
Heat Type:	Natural gas heat
Energy Recovery:	Energy Recovery Wheel
Application:	Variable volume, w/ VFD, Duct Pressure Control
Altitude:	0 ft
Approval	cETLus

Physical									
Unit Dimensions and Weights									
Unit Length		Unit Height		Unit Width		Unit Weight			
300.2 in		84.8 in		97.5 in		7025 lb			
Unit Construction									
Exterior:		Prepainted Galv Steel			Doors:		Fan, Filter, Control Panel, and Heat Vestibule sections		
Insulation:		R-value of 4.0			Drain Pan Material		Stainless Steel		
Liners:		Double wall construction							
Unit Electrical Data									
Voltage		SCCR		FLA		MCA		MROPD	
460/60/3 v		10 kAIC		99.0 A		103.6 A		110 A	
Note:		Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.							

Return/Outside/Exhaust Air				
Outside Air Option				
Type	Damper	Damper Pressure Drop		Leakage Rate
0-100% Econ with dry bulb control	Low leak with blade and jamb seals	0.02 inH <sub>2</sub> O		1.5 cfm/sq ft @1" differential pressure
Ventilation Control:	None			
Draw Through Filters				
Efficiency	Quantity/Size	Face Area ft²	Face Velocity ft/min	Air Pressure Drop inH <sub>2</sub> O
30% MERV 8	8 / 24 in x 24 in x 2 in, 4 / 18 in x 24 in x 2 in	36.0	278	0.06

## Technical Data Sheet for RTU A12 MAV2

Exhaust Air Option					
Fan Airflow	Max Static Pressure	Fan Type	Fan Quantity	Fan Diameter	Capacity Control
7000 CFM	1.50 inH <sub>2</sub> O	BI SWSI	2	22"	Power Exhaust - Building pressure control
Motor Power	Motor Type	Motor Quantity	Full Load Current	Drive Type	
8.00	ECM	2	6.1 AA	Direct Drive	

### Energy Recovery

Design OA Volume	Design Exhaust Volume	Wheel Press Drop	Motor HP	Motor FLA
4000 CFM	3800 CFM	0.57 inH <sub>2</sub> O	0.25 HP	1.1 A

#### Summer Conditions

OA Temp		RA Temp		Wheel Leave Temp		Mixed Air Temp		Recovered Capacity Btu/hr	Total Effectiveness	Sensible Effectiveness
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
96.0	75.0	75.0	64.0	78.7	66.4	76.5	65.0	125764	0.81	0.84

#### Winter Conditions

OA Temp		RA Temp		Wheel Leave Temp		Mixed Air Temp		Recovered Capacity Btu/hr	Total Effectiveness	Sensible Effectiveness
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
0.0	0.0	70.0	60.0	58.0	51.9	65.2	56.9	325864	0.82	0.85

Bypass Damper: Yes

#### Energy Recovery Filters

Efficiency	Quantity/Size	Face Area		Face Velocity		Air Pressure Drop	
		Outdoor ft <sup>2</sup>	Exhaust ft <sup>2</sup>	Outdoor ft/min	Exhaust ft/min	Outdoor inH <sub>2</sub> O	Exhaust inH <sub>2</sub> O
30% MERV 8	12 / 18 in x 24 in x 2 in	18.0	18.0	222.2	211.1	0.03	0.11

#### Combined Efficiency Factor

Unit CEF: 12.3

Note: CEF determined using AHRI guideline V, conditions of 80/67 return & 95/75 ambient, and outdoor airflow percentage

### Cooling Coil

Fins per Inch	Rows	Face Area ft <sup>2</sup>	Face Velocity ft/min	Condensate Connection Size	Air Pressure drop inH <sub>2</sub> O
12	4	35.7	280	1.0 in. Male NPT	0.23

#### Cooling Performance

Total Capacity Btu/hr	Sensible Capacity Btu/hr	Entering Air Temperature		Leaving Air Temperature		Ambient Air Temp °F
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	
418681	276058	76.5	65.0	51.3	50.5	100.0



## Technical Data Sheet for RTU A12 MAV2

Fan Section					
Type		Fan Wheel Diameter		Vibration Isolation	
AF SWSI		30 in		1 inch spring, seismic	
Fan Performance					
Air Flow	Total Static Pressure	Fan Speed	Brake Horsepower	Altitude	
10000 CFM	3.98 inH <sub>2</sub> O	1201 RPM	8.9 HP	0 ft	
Motor					
Horsepower	Type		Efficiency	Full Load Current	
10 HP	Open drip proof, Premium efficiency		91.7	13.0 A	
Drives					
Type			Service Factor		
Belt Drive			120%		
Gas Heat Section					
Type	Main Gas Pressure		Material	Gas Type	
Tubular Heat exchanger with in-shot burner manifold	7-14 inH <sub>2</sub> O		Stainless steel	Natural Gas	
Ignition	Combustion Blower		Heat Stages	Gas Piping Connection Size	
Electric	Induced draft blower		Modulating	3/4 in. Female NPT	
Heating Performance					
Input Size	Heat Airflow	Total Capacity	Steady State Efficiency	Entering Air Dry Bulb	Leaving Air Dry Bulb
800 MBH Input/640 MBH Output	10000 CFM	640000 Btu/hr	81%	45.0 °F	104.0 °F
Unit Discharge Conditions					
Air Temperature					
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F	
26364	128.0	53.7	51.3	49.5	

## Technical Data Sheet for RTU A12 MAV2

### Condensing Section

Compressor						
Type	Quantity	Refrigerant Charge		Total Power	Capacity Control	Refrigerant Type
		Circuit1	Circuit 2			
Scroll	4	25.5lbs	26.0 lbs	38.2 kW	5 steps	R410A
Compressor Amps:						
Compressor 1		Fixed Speed			18.6 A	
Compressor 2		Fixed Speed			18.6 A	
Compressor 3		Fixed Speed			13.1 A	
Compressor 4		Fixed Speed			13.1 A	
Condenser Coil						
Type	Fins Per Inch	Rows		Fin Material	Refrigerant Valves	
Aluminum tube micro channel	18	Micro Channel		Aluminum	None	
Low Ambient Control:	Std low ambient control to 0 F (-17.7 C)					
Condenser Fan Motors						
Number of Motors				Full Load Current		
4				2.0 A		
AHRI 360 Certified Data at AHRI 360 Standard Conditions						
Net Capacity		Efficiency			ASHRAE 90.1	
438000 Btu/hr		10.1 EER		13 IEER	2016 Compliant	

### Internal Static Pressure Drop Calculation

External Static Pressure:	2.00
Outside Air Damper:	0.02
Filter:	0.06
Cooling Coil:	0.23
(1) Energy Wheel & Filters OR Return Air Path:	1.50
Energy Wheel and Filters:	1.50
Gas Heat:	0.18
Total Static Pressure:	3.98 inH <sub>2</sub> O

#### Notes

(1) Energy Wheel pressure drop is the higher of the return path or the energy recovery path (Wheel + Filters) to account for worst case static pressure on the supply fan.

### Sound Power

Inlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
74	77	84	76	72	67	65	62
Outlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
80	84	89	85	81	76	72	68
Radiated							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
84	96	94	93	91	88	87	85

## Technical Data Sheet for RTU A12 MAV2

Options	
Electrical	
Field Connection:	Non-Fused Disc Sw, Unit powered 115V GFI outlet
Power Options:	Phase Failure Monitor
Controls	
Temperature Controls:	DDC controls, no BAS communication card

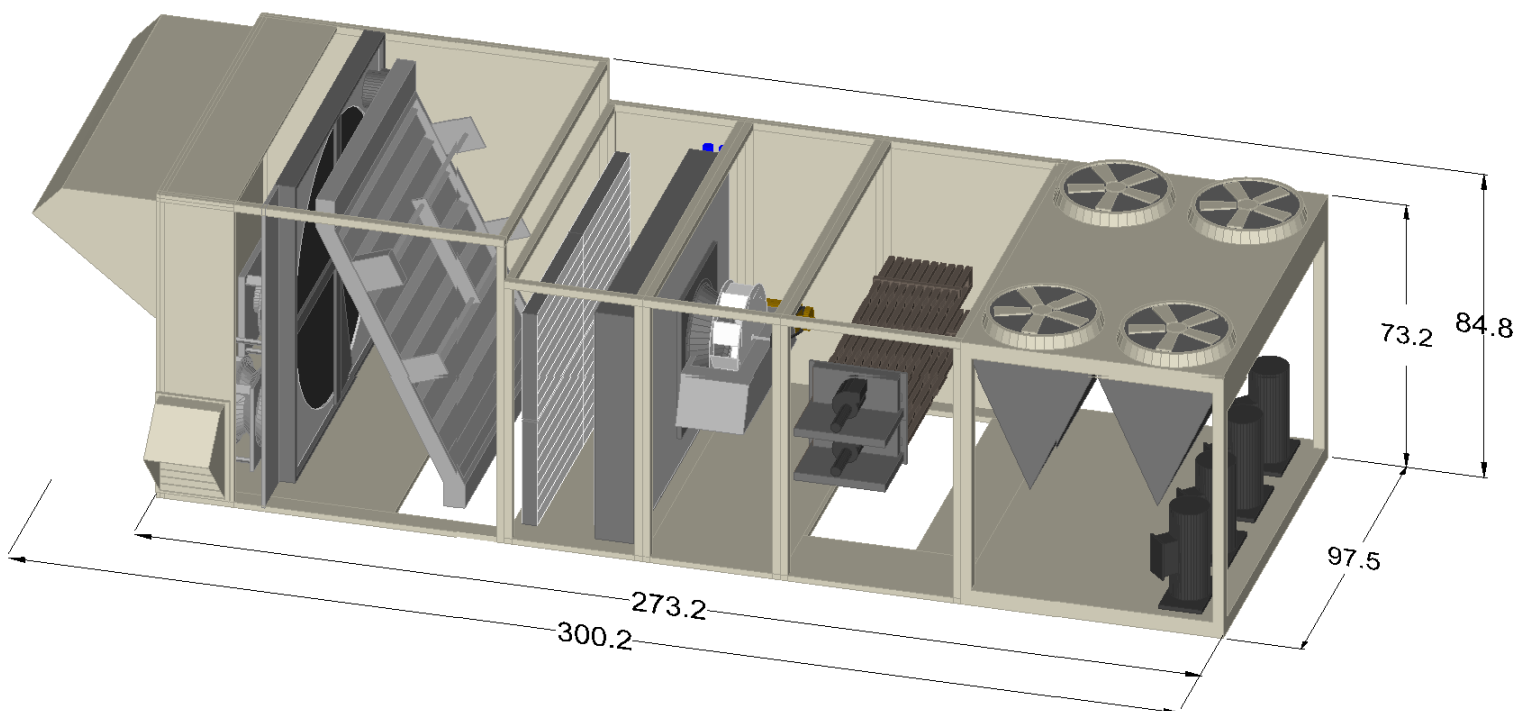
Factory Installed Sensors
Leaving Coil/Entering Fan Temp Sensor
Duct High Limit Switch
Duct Static Pressure Sensor
Building Static Pressure Sensor
Discharge Air Temperature Sensor
Outside Air Temperature Sensor
Dirty Filter On/Off Switch
Airflow Proving Switch
Return Air Temperature Sensor
Supply Leaving Wheel Temperature Sensor
Exhaust Leaving Wheel Temperature Sensor
Return Air Relative Humidity Sensor

Warranty	
Parts Warranty:	Standard one year
Compressor Warranty:	Standard one year
Heat Exchanger Warranty:	Standard one year

AHRI Certification	
	All equipment is rated and certified in accordance with AHRI 340/360

Notes

Accessories	
Part Number	Description
Note:	
404000801	14" Roofcurb, Size 040-050, Energy Recovery



**Product Drawing**

Product:

Model: MPS040F

Unit Tag: RTU A12 MAV2

Project Name: LSSD Lees Summit HS

Nov. 16, 2020

Ver/Rev:

Sheet: 1 of 1

Sales Office: Daikin TMI LLC (Kansas City)

Sales Engineer:

Scale: NTS

Tolerance: +/- 0.25"

Dwg Units: in [mm]

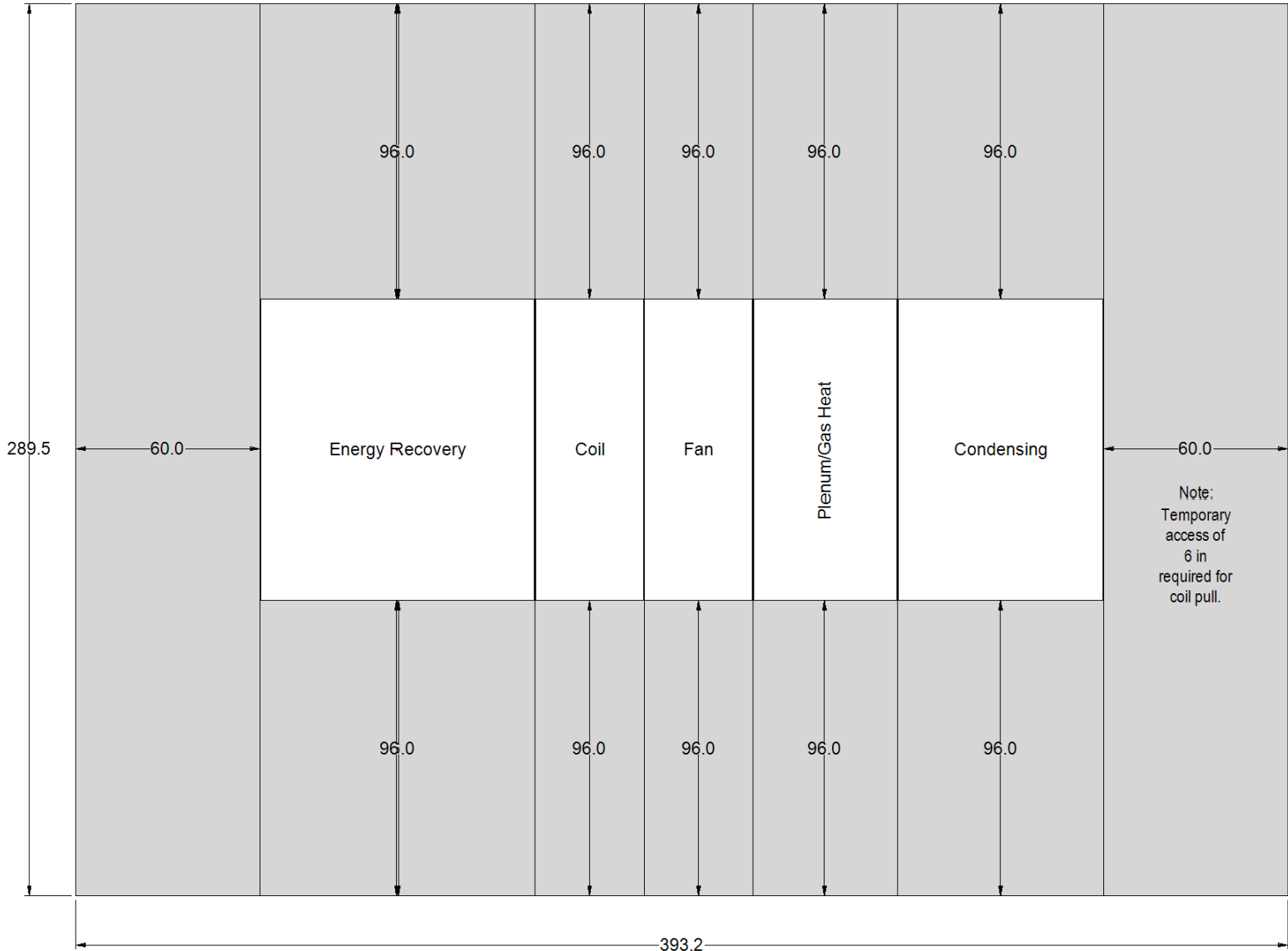


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www.DaikinApplied.com Software Version: 10.01


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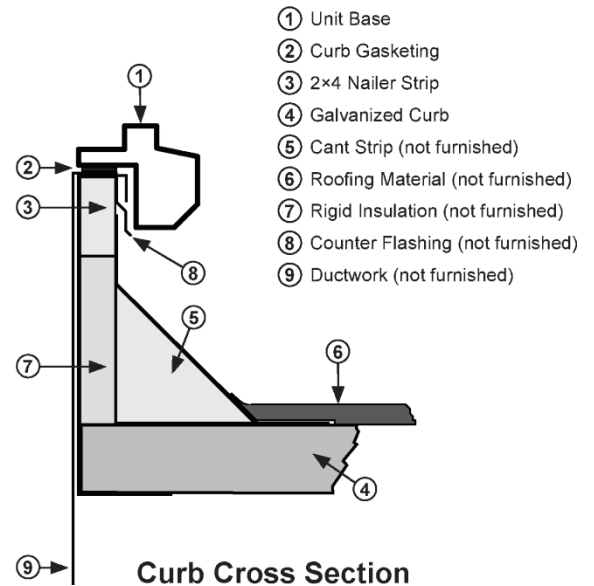
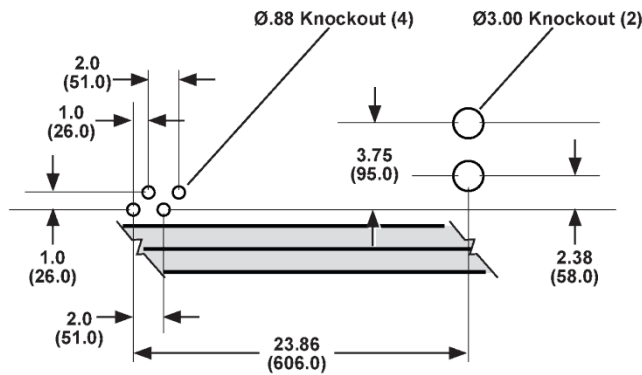
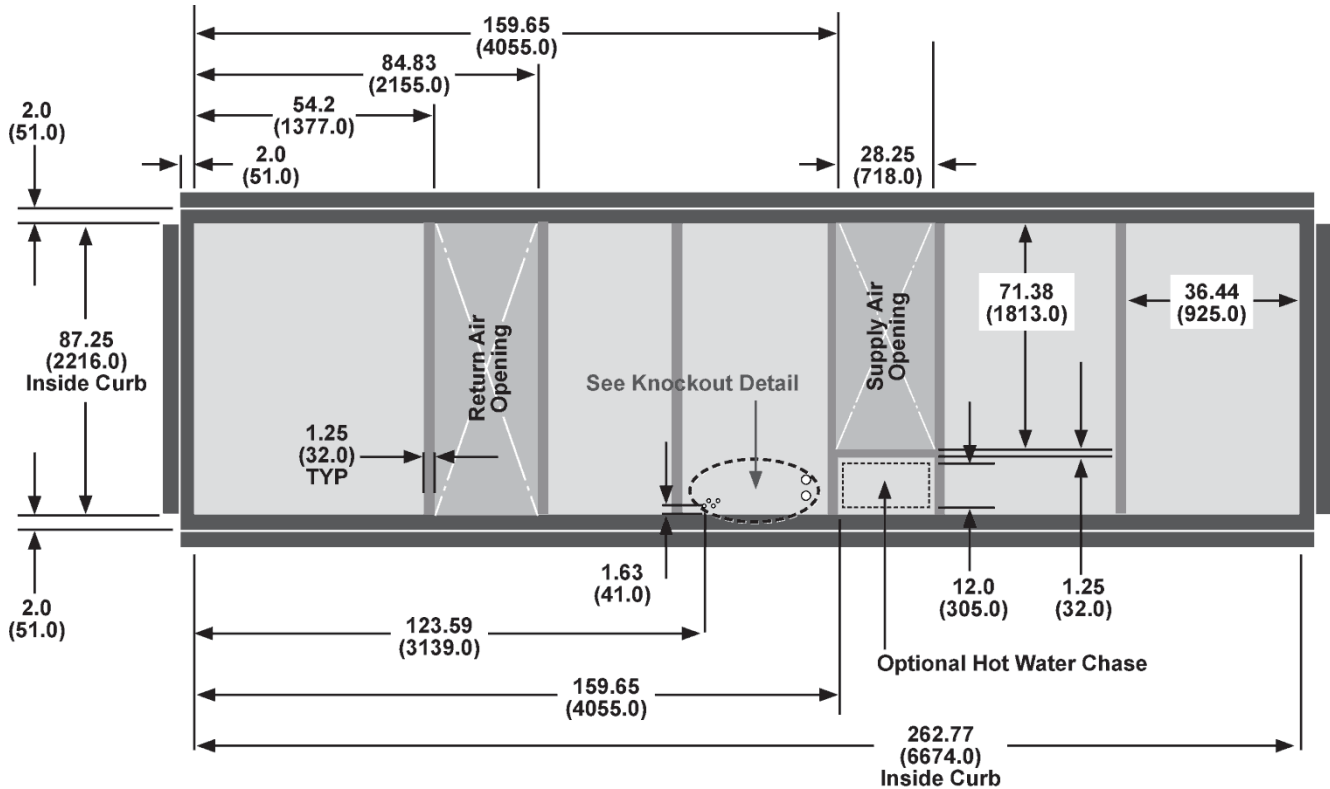
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.




PLAN VIEW - SERVICE CLEARANCE

<b>Product Drawing</b>		Unit Tag: RTU A12 MAV2			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 10.01
Product:		Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: MPS040F		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.								

# MPS040-050 ERW Curb\_Drawing for RTU A12 MAV2



<b>Product Drawing</b>		Unit Tag: RTU A12 MAV2		<div></div> <div>13600 Industrial Park Blvd. Minneapolis, MN 55441</div> <div>www.DaikinApplied.com      Software Version: 10.01</div>			
Product:		Project Name: LSSD Lees Summit HS					
Model: MPS040F		Sales Office: Daikin TMI LLC (Kansas City)					
Sales Engineer:		Nov. 16, 2020	Ver/Rev:				Sheet 1 of 1
		Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in [mm]			
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

## Technical Data Sheet for RTU A11 MAV2

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	09.90	
Unit Tag	RTU A11 MAV2	



Unit Overview					
Model Number	Voltage	Design Cooling Capacity	AHRI 360 Standard Efficiency		ASHRAE 90.1
			EER	IEER	
MPS050F	460/60/3	494909 Btu/hr	10.2	12.9	2016 Compliant

Unit	
Model Number:	MPS050F
Model Type:	Cooling, Standard Efficiency
Heat Type:	Natural gas heat
Energy Recovery:	Energy Recovery Wheel
Application:	Variable volume, w/ VFD, Duct Pressure Control
Altitude:	0 ft
Approval	cETLus

Physical									
Unit Dimensions and Weights									
Unit Length		Unit Height		Unit Width		Unit Weight			
300.2 in		84.8 in		97.5 in		7285 lb			
Unit Construction									
Exterior:		Prepainted Galv Steel			Doors:		Fan, Filter, Control Panel, and Heat Vestibule sections		
Insulation:		R-value of 4.0			Drain Pan Material		Stainless Steel		
Liners:		Double wall construction							
Unit Electrical Data									
Voltage		SCCR		FLA		MCA		MROPD	
460/60/3 v		10 kAIC		114.7 A		119.3 A		125 A	
Note:		Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.							

Return/Outside/Exhaust Air				
Outside Air Option				
Type	Damper	Damper Pressure Drop		Leakage Rate
0-100% Econ with dry bulb control	Low leak with blade and jamb seals	0.03 inH <sub>2</sub> O		1.5 cfm/sq ft @1" differential pressure
Ventilation Control:	None			
Draw Through Filters				
Efficiency	Quantity/Size	Face Area ft²	Face Velocity ft/min	Air Pressure Drop inH <sub>2</sub> O
30% MERV 8	8 / 24 in x 24 in x 2 in, 4 / 18 in x 24 in x 2 in	44.0	295	0.1



## Technical Data Sheet for RTU A11 MAV2

Exhaust Air Option					
Fan Airflow	Max Static Pressure	Fan Type	Fan Quantity	Fan Diameter	Capacity Control
9000 CFM	1.50 inH <sub>2</sub> O	BI SWSI	2	22"	Power Exhaust - Building pressure control
Motor Power	Motor Type	Motor Quantity	Full Load Current	Drive Type	
8.00	ECM	2	6.1 AA	Direct Drive	

### Energy Recovery

Design OA Volume	Design Exhaust Volume	Wheel Press Drop	Motor HP	Motor FLA
4465 CFM	4200 CFM	0.63 inH <sub>2</sub> O	0.25 HP	1.1 A

#### Summer Conditions

OA Temp		RA Temp		Wheel Leave Temp		Mixed Air Temp		Recovered Capacity Btu/hr	Total Effectiveness	Sensible Effectiveness
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
96.0	75.0	75.0	64.0	79.1	66.6	76.4	64.9	137508	0.80	0.83

#### Winter Conditions

OA Temp		RA Temp		Wheel Leave Temp		Mixed Air Temp		Recovered Capacity Btu/hr	Total Effectiveness	Sensible Effectiveness
Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F			
0.0	0.0	70.0	60.0	56.8	51.2	65.5	57.1	356348	0.81	0.84

Bypass Damper: Yes

#### Energy Recovery Filters

Efficiency	Quantity/Size	Face Area		Face Velocity		Air Pressure Drop	
		Outdoor ft <sup>2</sup>	Exhaust ft <sup>2</sup>	Outdoor ft/min	Exhaust ft/min	Outdoor inH <sub>2</sub> O	Exhaust inH <sub>2</sub> O
30% MERV 8	12 / 18 in x 24 in x 2 in	18.0	18.0	248.1	233.3	0.04	0.18

#### Combined Efficiency Factor

Unit CEF: 12.1

Note: CEF determined using AHRI guideline V, conditions of 80/67 return & 95/75 ambient, and outdoor airflow percentage

### Cooling Coil

Fins per Inch	Rows	Face Area ft <sup>2</sup>	Face Velocity ft/min	Condensate Connection Size	Air Pressure drop inH <sub>2</sub> O
12	4	35.7	364	1.0 in. Male NPT	0.33

#### Cooling Performance

Total Capacity Btu/hr	Sensible Capacity Btu/hr	Entering Air Temperature		Leaving Air Temperature		Ambient Air Temp °F
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	
494909	337951	76.4	64.9	52.6	52.0	100.0

## Technical Data Sheet for RTU A11 MAV2

Fan Section					
Type		Fan Wheel Diameter		Vibration Isolation	
AF SWSI		30 in		1 inch spring, seismic	
Fan Performance					
Air Flow	Total Static Pressure	Fan Speed	Brake Horsepower	Altitude	
13000 CFM	4.27 inH <sub>2</sub> O	1319 RPM	12.2 HP	0 ft	
Motor					
Horsepower	Type		Efficiency	Full Load Current	
15 HP	Open drip proof, Premium efficiency		93.0	17.7 A	
Drives					
Type			Service Factor		
Belt Drive			120%		
Gas Heat Section					
Type	Main Gas Pressure		Material	Gas Type	
Tubular Heat exchanger with in-shot burner manifold	7-14 inH <sub>2</sub> O		Stainless steel	Natural Gas	
Ignition	Combustion Blower		Heat Stages	Gas Piping Connection Size	
Electric	Induced draft blower		Modulating	3/4 in. Female NPT	
Heating Performance					
Input Size	Heat Airflow	Total Capacity	Steady State Efficiency	Entering Air Dry Bulb	Leaving Air Dry Bulb
800 MBH Input/640 MBH Output	13000 CFM	640000 Btu/hr	81%	45.0 °F	90.4 °F
Unit Discharge Conditions					
Air Temperature					
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F	
34878	139.6	55.1	52.8	51.0	

## Technical Data Sheet for RTU A11 MAV2

### Condensing Section

Compressor						
Type	Quantity	Refrigerant Charge		Total Power	Capacity Control	Refrigerant Type
		Circuit1	Circuit 2			
Scroll	4	28.6lbs	29.1 lbs	43.2 kW	5 steps	R410A
Compressor Amps:						
Compressor 1		Fixed Speed			18.6 A	
Compressor 2		Fixed Speed			18.6 A	
Compressor 3		Fixed Speed			18.6 A	
Compressor 4		Fixed Speed			18.6 A	
Condenser Coil						
Type	Fins Per Inch	Rows		Fin Material	Refrigerant Valves	
Aluminum tube micro channel	18	Micro Channel		Aluminum	None	
Low Ambient Control:	Std low ambient control to 0 F (-17.7 C)					
Condenser Fan Motors						
Number of Motors				Full Load Current		
4				2.0 A		
AHRI 360 Certified Data at AHRI 360 Standard Conditions						
Net Capacity		Efficiency			ASHRAE 90.1	
507000 Btu/hr		10.2 EER		12.9 IEER		2016 Compliant

### Internal Static Pressure Drop Calculation

External Static Pressure:	2.00
Outside Air Damper:	0.03
Filter:	0.10
Cooling Coil:	0.33
(1) Energy Wheel & Filters OR Return Air Path:	1.50
Energy Wheel and Filters:	1.50
Gas Heat:	0.30
Total Static Pressure:	4.27 inH <sub>2</sub> O

#### Notes

(1) Energy Wheel pressure drop is the higher of the return path or the energy recovery path (Wheel + Filters) to account for worst case static pressure on the supply fan.

### Sound Power

Inlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
75	78	85	77	73	68	66	63
Outlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
81	85	90	86	82	77	73	69
Radiated							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
85	96	94	93	91	88	87	85

## Technical Data Sheet for RTU A11 MAV2

Options	
Electrical	
Field Connection:	Non-Fused Disc Sw, Unit powered 115V GFI outlet
Power Options:	Phase Failure Monitor
Controls	
Temperature Controls:	DDC controls, no BAS communication card

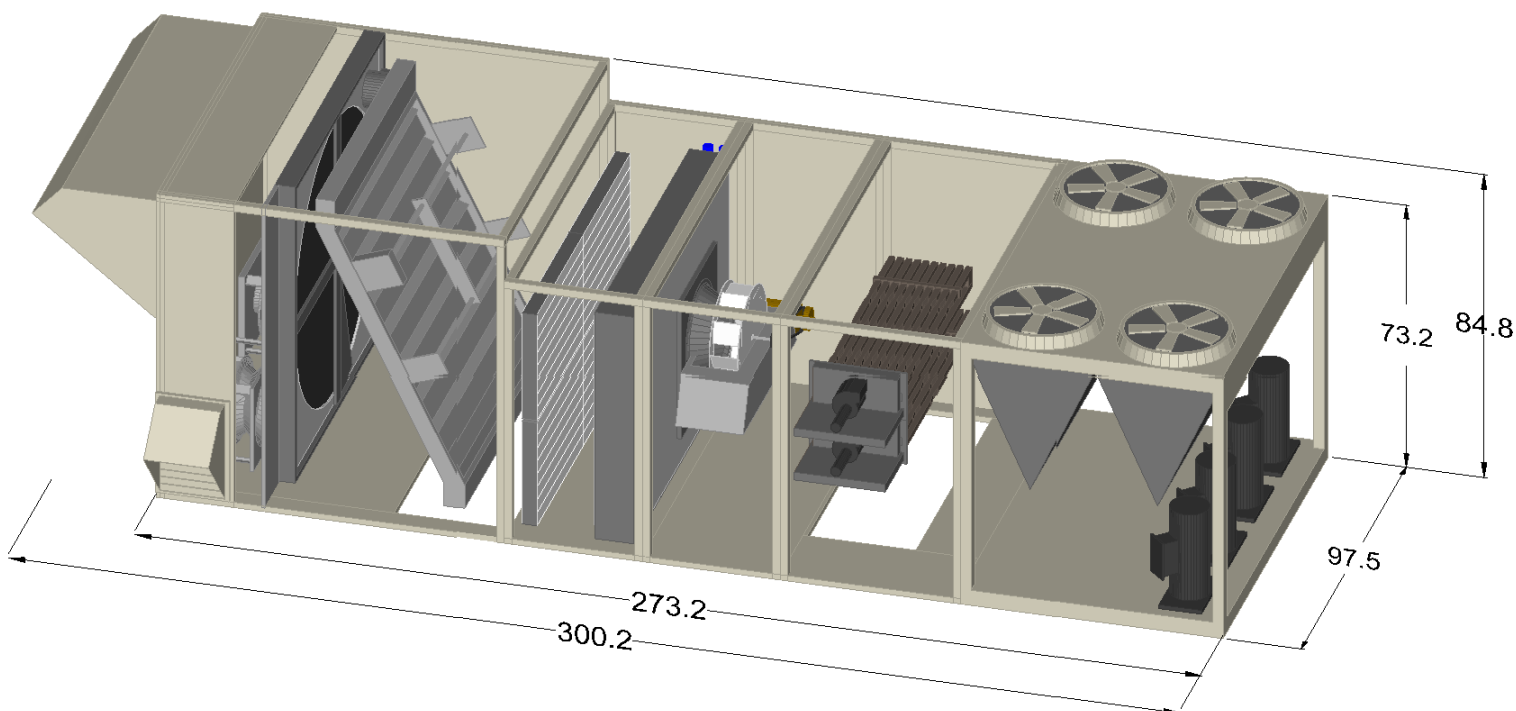
Factory Installed Sensors
Leaving Coil/Entering Fan Temp Sensor
Duct High Limit Switch
Duct Static Pressure Sensor
Building Static Pressure Sensor
Discharge Air Temperature Sensor
Outside Air Temperature Sensor
Dirty Filter On/Off Switch
Airflow Proving Switch
Return Air Temperature Sensor
Supply Leaving Wheel Temperature Sensor
Exhaust Leaving Wheel Temperature Sensor
Return Air Relative Humidity Sensor

Warranty	
Parts Warranty:	Standard one year
Compressor Warranty:	Standard one year
Heat Exchanger Warranty:	Standard one year

AHRI Certification	
	All equipment is rated and certified in accordance with AHRI 340/360

Notes

Accessories	
Part Number	Description
Note:	
404000801	14" Roofcurb, Size 040-050, Energy Recovery



**Product Drawing**

Product:

Model: MPS050F

Unit Tag: RTU A11 MAV2

Project Name: LSSD Lees Summit HS

Nov. 16, 2020

Ver/Rev:

Sheet: 1 of 1

Sales Office: Daikin TMI LLC (Kansas City)

Sales Engineer:

Scale: NTS

Tolerance: +/- 0.25"

Dwg Units: in [mm]

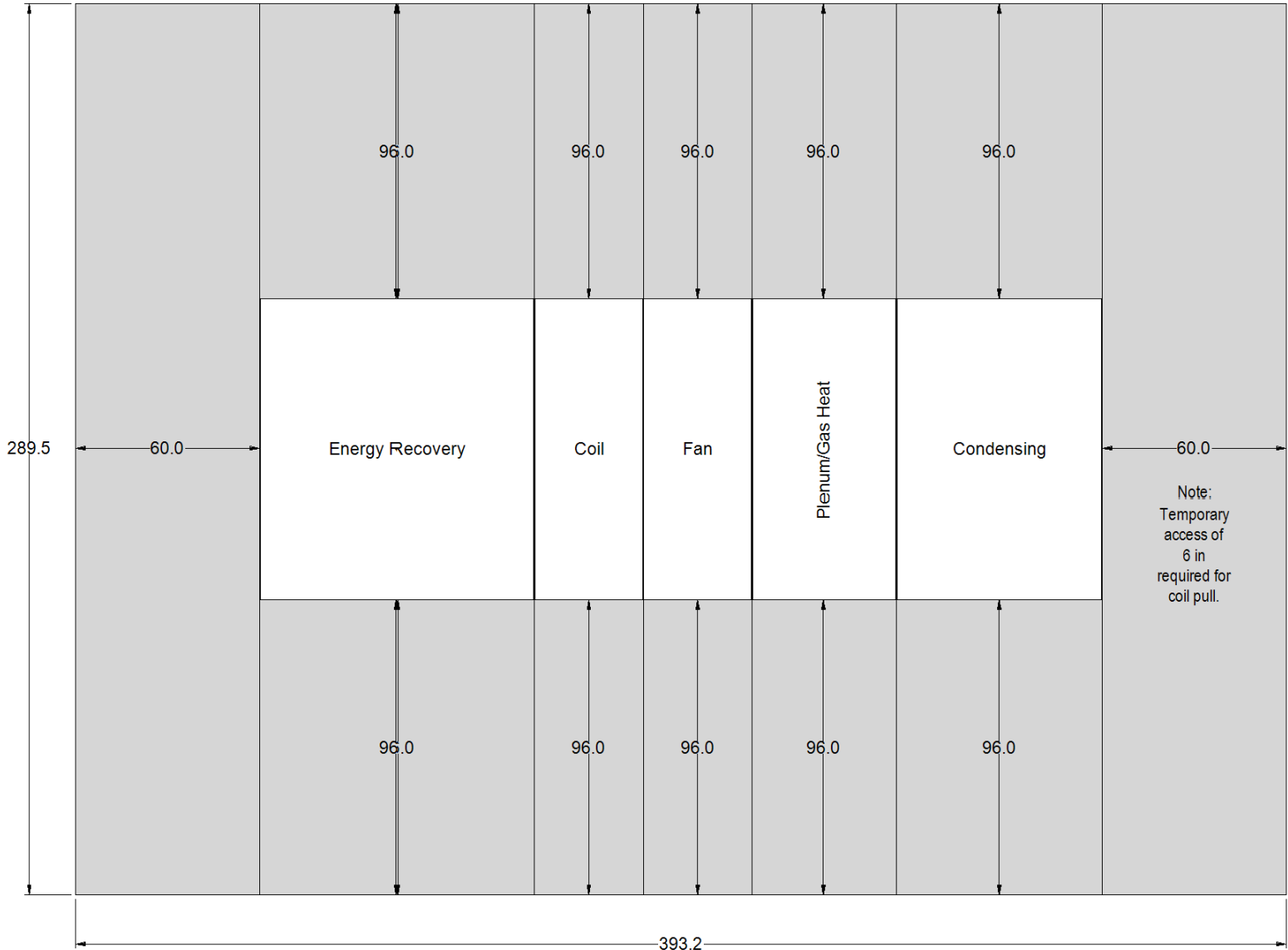


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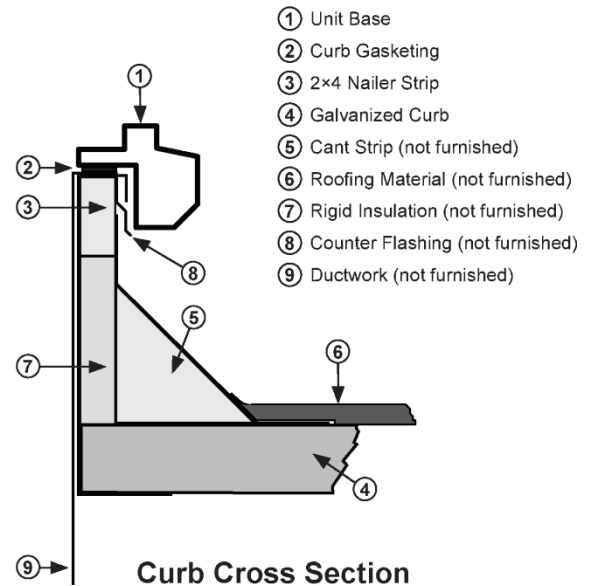
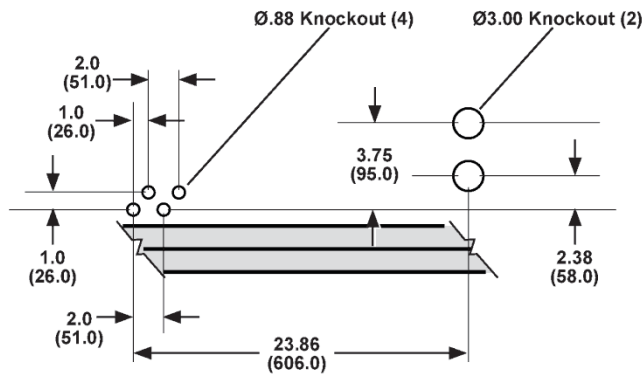
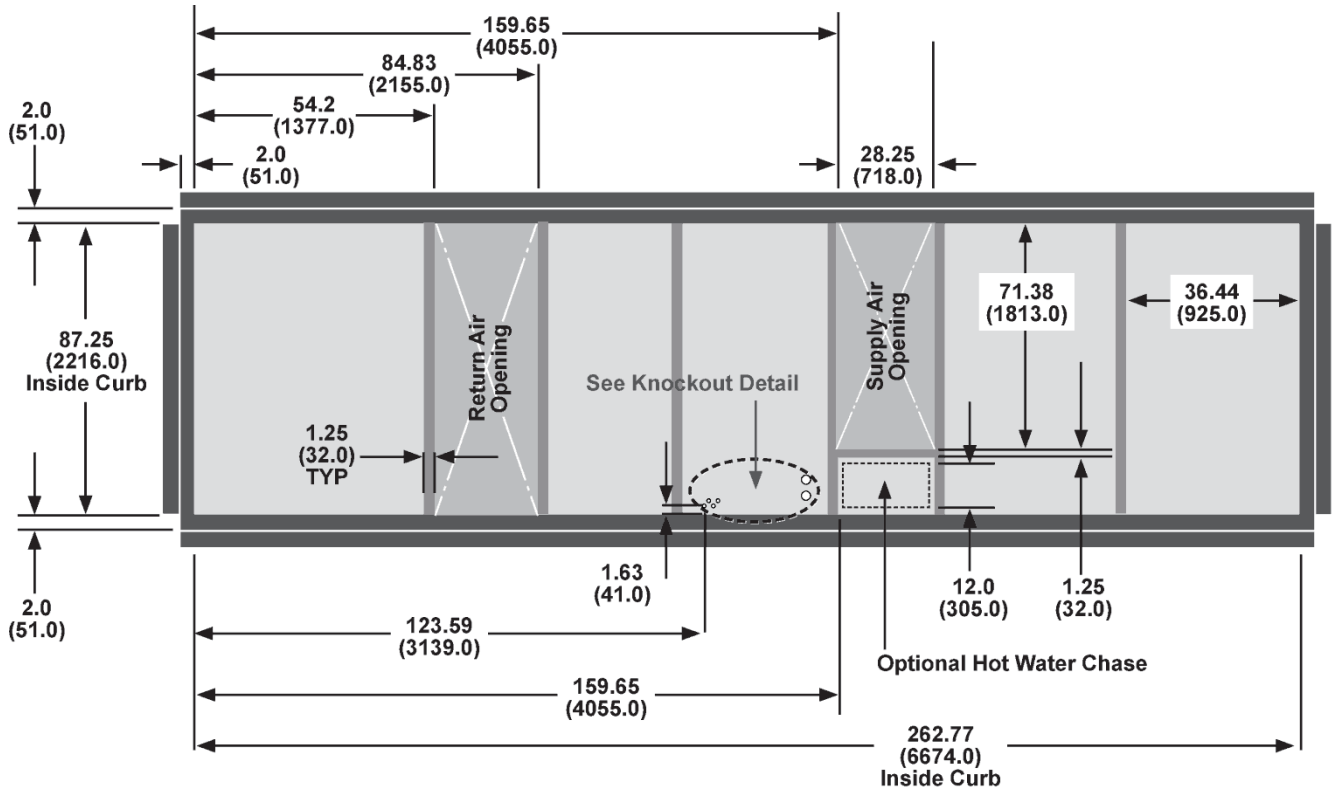
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.



PLAN VIEW - SERVICE CLEARANCE

<b>Product Drawing</b>		Unit Tag: RTU A11 MAV2			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 09.90
Product:		Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: MPS050F		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.								

# MPS040-050 ERW Curb\_Drawing for RTU A11 MAV2



## Product Drawing

Product:

Model: MPS050F

Sales Engineer:

Unit Tag: RTU A11 MAV2

Project Name: LSSD Lees Summit HS

Sales Office: Daikin TMI LLC (Kansas City)

Nov. 16, 2020

Ver/Rev:

Sheet 1 of 1



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Software Version: 09.90

Scale: NTS

Tolerance: +/-0.25"

Dwg Units: in [mm]

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Job Number: 8XB73N

Job Name: LSSD Lees Summit HS Remodel

Page

20 of 57

Prepared Date:

11/16/2020

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## Technical Data Sheet for RTU B2

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	10.01	
Unit Tag	RTU B2	



Unit Overview					
Model Number	Voltage	Design Cooling Capacity	AHRI 360 Standard Efficiency		ASHRAE 90.1
			EER	IEER	
MPS050F	460/60/3	530621 Btu/hr	10.3	13.1	2016 Compliant

Unit	
Model Number:	MPS050F
Model Type:	Cooling, Standard Efficiency
Heat Type:	Natural gas heat
Application:	Variable volume, w/ VFD, Duct Pressure Control
Altitude:	0 ft
Approval	cETLus

Physical				
Unit Dimensions and Weights				
Unit Length		Unit Height	Unit Width	Unit Weight
245.5 in		73.2 in	97.5 in	5535 lb
Unit Construction				
Exterior:	Prepainted Galv Steel		Doors:	Fan, Filter, Control Panel, and Heat Vestibule sections
Insulation:	R-value of 4.0		Drain Pan Material	Stainless Steel
Liners:	Double wall construction			
Unit Electrical Data				
Voltage	SCCR	FLA	MCA	MROPD
460/60/3 v	10 kAIC	101.4 A	106.0 A	110 A
Note:	Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.			

Return/Outside/Exhaust Air				
Outside Air Option				
Type	Damper	Damper Pressure Drop	Leakage Rate	
0-100% Econ with dry bulb control	Low leak with blade and jamb seals	0.02 inH <sub>2</sub> O	1.5 cfm/sq ft @1" differential pressure	
Ventilation Control:	None			
Draw Through Filters				
Efficiency	Quantity/Size	Face Area ft <sup>2</sup>	Face Velocity ft/min	Air Pressure Drop inH <sub>2</sub> O
30% MERV 8	8 / 24 in x 24 in x 2 in, 4 / 18 in x 24 in x 2 in	44.0	250	0.07

## Technical Data Sheet for RTU B2

Cooling Coil						
Fins per Inch	Rows	Face Area ft²	Face Velocity ft/min	Condensate Connection Size		Air Pressure drop inH₂O
12	6	35.7	308	1.0 in. Male NPT		0.39
Cooling Performance						
Total Capacity Btu/hr	Sensible Capacity Btu/hr	Entering Air Temperature		Leaving Air Temperature		Ambient Air Temp °F
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	
530621	364608	84.9	69.3	54.6	53.9	100.0
Fan Section						
Type		Fan Wheel Diameter		Vibration Isolation		
AF SWSI		30 in		1 inch spring, seismic		
Fan Performance						
Air Flow	Total Static Pressure	Fan Speed		Brake Horsepower	Altitude	
11000 CFM	2.70 inH₂O	1075 RPM		6.6 HP	0 ft	
Motor						
Horsepower	Type		Efficiency		Full Load Current	
15 HP	Open drip proof, Premium efficiency		93.0		17.7 A	
Drives						
Type			Service Factor			
Belt Drive			120%			
Gas Heat Section						
Type	Main Gas Pressure		Material		Gas Type	
Tubular Heat exchanger with in-shot burner manifold	7-14 inH₂O		Stainless steel		Natural Gas	
Ignition	Combustion Blower		Heat Stages		Gas Piping Connection Size	
Electric	Induced draft blower		Modulating		3/4 in. Female NPT	
Heating Performance						
Input Size	Heat Airflow	Total Capacity	Steady State Efficiency		Entering Air Dry Bulb	Leaving Air Dry Bulb
800 MBH Input/640 MBH Output	11000 CFM	640000 Btu/hr	81%		34.7 °F	88.3 °F
Unit Discharge Conditions						
AirTemperature						
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F		Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F	
20572	144.6	56.3		54.5	53.2	

## Technical Data Sheet for RTU B2

Condensing Section						
Compressor						
Type	Quantity	Refrigerant Charge		Total Power	Capacity Control	Refrigerant Type
		Circuit1	Circuit 2			
Scroll	4	32.1lbs	32.6 lbs	43.9 kW	5 steps	R410A
Compressor Amps:						
Compressor 1		Fixed Speed			18.6 A	
Compressor 2		Fixed Speed			18.6 A	
Compressor 3		Fixed Speed			18.6 A	
Compressor 4		Fixed Speed			18.6 A	
Condenser Coil						
Type	Fins Per Inch	Rows		Fin Material	Refrigerant Valves	
Aluminum tube micro channel	18	Micro Channel		Aluminum	None	
Low Ambient Control:	Std low ambient control to 0 F (-17.7 C)					
Condenser Fan Motors						
Number of Motors				Full Load Current		
4				2.0 A		
AHRI 360 Certified Data at AHRI 360 Standard Conditions						
Net Capacity		Efficiency			ASHRAE 90.1	
520000 Btu/hr		10.3 EER		13.1 IEER		2016 Compliant

Internal Static Pressure Drop Calculation	
External Static Pressure:	2.00
Outside Air Damper:	0.02
Filter:	0.07
Cooling Coil:	0.39
Energy Wheel and Filters:	0.00
Gas Heat:	0.22
Total Static Pressure:	2.70 inH <sub>2</sub> O

Sound Power							
Inlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
71	77	78	73	69	64	62	59
Outlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
77	84	83	82	78	73	69	65
Radiated							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
85	94	92	91	88	86	84	83

Options	
Electrical	
Field Connection:	Non-Fused Disc Sw, Unit powered 115V GFI outlet
Power Options:	Phase Failure Monitor
Controls	
Temperature Controls:	DDC controls, no BAS communication card

Technical Data Sheet for RTU B2

Factory Installed Sensors	
Leaving Coil/Entering Fan Temp Sensor	
Duct High Limit Switch	
Duct Static Pressure Sensor	
Return Air Temperature Sensor	
Discharge Air Temperature Sensor	
Outside Air Temperature Sensor	
Dirty Filter On/Off Switch	
Airflow Proving Switch	

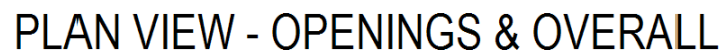
Warranty	
Parts Warranty:	Standard one year
Compressor Warranty:	Standard one year
Heat Exchanger Warranty:	Standard one year


AHRI Certification	
	All equipment is rated and certified in accordance with AHRI 340/360

Notes	

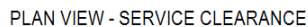
Accessories	
Part Number	Description
Note:	
500144201	14" Roofcurb, size 040-050


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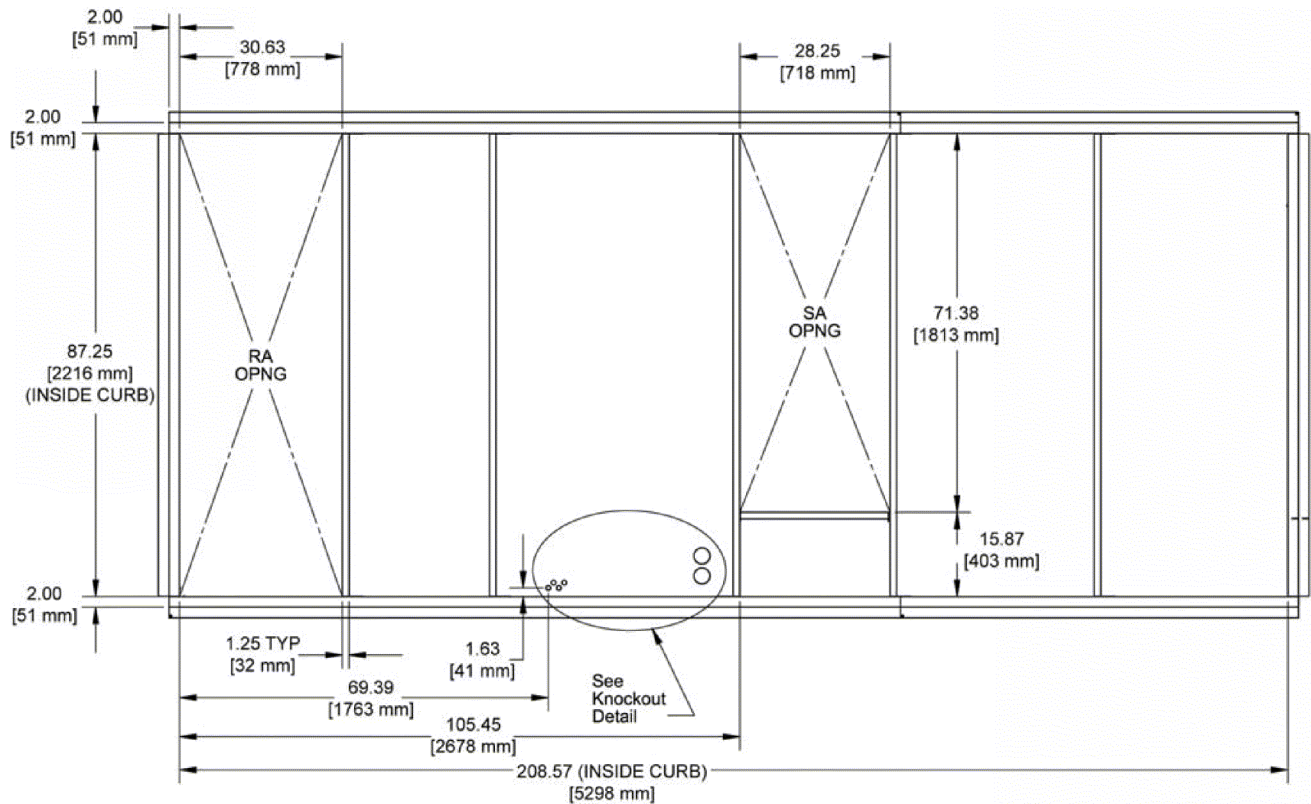
<b>Product Drawing</b>		Unit Tag: RTU B2		Sales Office: Daikin TMI LLC (Kansas City)		 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 10.01
Product:		Project Name: LSSD Lees Summit HS		Sales Engineer:		
Model: MPS050F		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS    Tolerance: +/- 0.25"    Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.

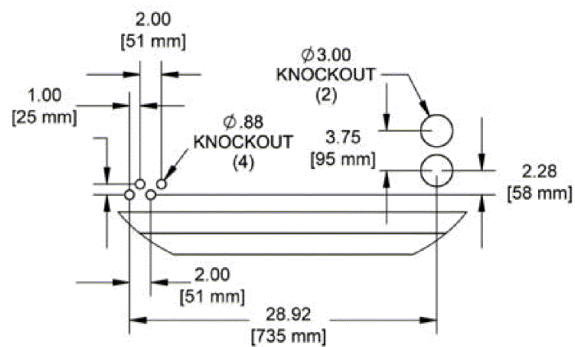


<b>Product Drawing</b>		Unit Tag: RTU B2		Sales Office: Daikin TMI LLC (Kansas City)		 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 10.01
Product:		Project Name: LSSD Lees Summit HS		Sales Engineer:		
Model: MPS050F		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS      Tolerance: +/- 0.25" Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						

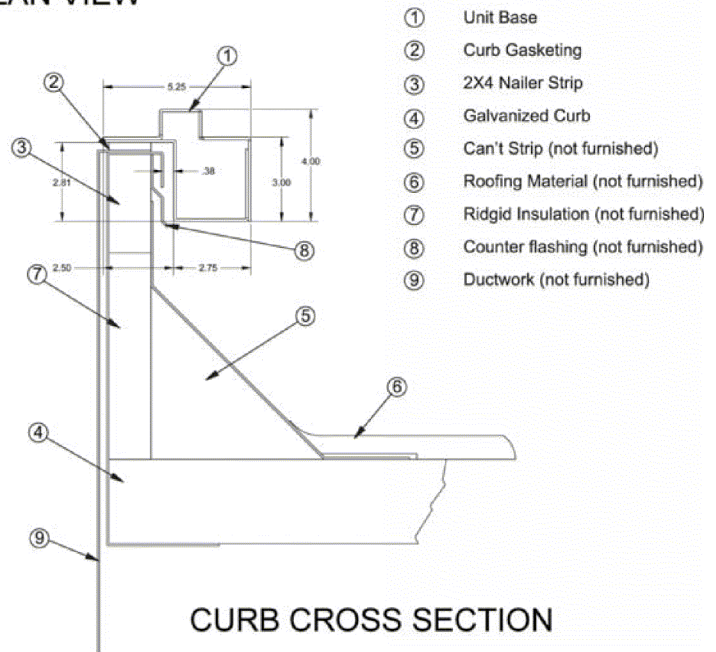
## MPS 040 - 050 Cooling Curb\_Drawing for RTU B2




### PLAN VIEW



## KNOCKOUT DETAIL



CURB CROSS SECTION

<b>Product Drawing</b>		Unit Tag: RTU B2			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 10.01		
Product:		Project Name: LSSD Lees Summit HS					
Model: MPS050F		Sales Office: Daikin TMI LLC (Kansas City)					
Sales Engineer:		Nov. 16, 2020	Ver/Rev:	Sheet 1 of 1			
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							



## Technical Data Sheet for RTU B6

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	10.01	
Unit Tag	RTU B6	



Unit Overview					
Model Number	Voltage	Design Cooling Capacity	AHRI 360 Standard Efficiency		ASHRAE 90.1
			EER	IEER	
MPS040F	460/60/3	430341 Btu/hr	10.1	13	2016 Compliant

Unit	
Model Number:	MPS040F
Model Type:	Cooling, Standard Efficiency
Heat Type:	Natural gas heat
Application:	Variable volume, w/ VFD, Duct Pressure Control
Altitude:	0 ft
Approval	cETLus

Physical									
Unit Dimensions and Weights									
Unit Length		Unit Height		Unit Width		Unit Weight			
245.5 in		73.2 in		97.5 in		5375 lb			
Unit Construction									
Exterior:		Prepainted Galv Steel			Doors:		Fan, Filter, Control Panel, and Heat Vestibule sections		
Insulation:		R-value of 4.0			Drain Pan Material		Stainless Steel		
Liners:		Double wall construction							
Unit Electrical Data									
Voltage		SCCR		FLA		MCA		MROPD	
460/60/3 v		10 kAIC		90.4 A		95.0 A		110 A	
Note:		Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.							

Return/Outside/Exhaust Air				
Outside Air Option				
Type	Damper	Damper Pressure Drop		Leakage Rate
0-100% Econ with dry bulb control	Low leak with blade and jamb seals	0.01 inH <sub>2</sub> O		1.5 cfm/sq ft @1" differential pressure
Ventilation Control:	None			
Draw Through Filters				
Efficiency	Quantity/Size	Face Area ft <sup>2</sup>	Face Velocity ft/min	Air Pressure Drop inH <sub>2</sub> O
30% MERV 8	8 / 24 in x 24 in x 2 in, 4 / 18 in x 24 in x 2 in	36.0	222	0.04

## Technical Data Sheet for RTU B6

Cooling Coil						
Fins per Inch	Rows	Face Area ft²	Face Velocity ft/min	Condensate Connection Size		Air Pressure drop inH₂O
12	4	35.7	224	1.0 in. Male NPT		0.16
Cooling Performance						
Total Capacity Btu/hr	Sensible Capacity Btu/hr	Entering Air Temperature		Leaving Air Temperature		Ambient Air Temp °F
		Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F	
430341	288471	85.7	69.3	52.7	51.7	100.0
Fan Section						
Type		Fan Wheel Diameter		Vibration Isolation		
AF SWSI		30 in		1 inch spring, seismic		
Fan Performance						
Air Flow	Total Static Pressure	Fan Speed		Brake Horsepower		Altitude
8000 CFM	2.33 inH₂O	926 RPM		4.1 HP		0 ft
Motor						
Horsepower	Type		Efficiency		Full Load Current	
15 HP	Open drip proof, Premium efficiency		93.0		17.7 A	
Drives						
Type			Service Factor			
Belt Drive			120%			
Gas Heat Section						
Type	Main Gas Pressure		Material		Gas Type	
Tubular Heat exchanger with in-shot burner manifold	7-14 inH₂O		Stainless steel		Natural Gas	
Ignition	Combustion Blower		Heat Stages		Gas Piping Connection Size	
Electric	Induced draft blower		Modulating		3/4 in. Female NPT	
Heating Performance						
Input Size	Heat Airflow	Total Capacity	Steady State Efficiency		Entering Air Dry Bulb	Leaving Air Dry Bulb
800 MBH Input/640 MBH Output	8000 CFM	640000 Btu/hr	81%		32.0 °F	105.7 °F
Unit Discharge Conditions						
AirTemperature						
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F		Unit Leaving Wet Bulb °F		Unit Leaving Dewpoint °F
14288	125.0	54.4		52.3		50.7

## Technical Data Sheet for RTU B6

### Condensing Section

Compressor						
Type	Quantity	Refrigerant Charge		Total Power	Capacity Control	Refrigerant Type
		Circuit1	Circuit 2			
Scroll	4	25.5lbs	26.0 lbs	38.4 kW	5 steps	R410A
Compressor Amps:						
Compressor 1		Fixed Speed			18.6 A	
Compressor 2		Fixed Speed			18.6 A	
Compressor 3		Fixed Speed			13.1 A	
Compressor 4		Fixed Speed			13.1 A	
Condenser Coil						
Type	Fins Per Inch	Rows		Fin Material	Refrigerant Valves	
Aluminum tube micro channel	18	Micro Channel		Aluminum	None	
Low Ambient Control:	Std low ambient control to 0 F (-17.7 C)					
Condenser Fan Motors						
Number of Motors				Full Load Current		
4				2.0 A		
AHRI 360 Certified Data at AHRI 360 Standard Conditions						
Net Capacity		Efficiency			ASHRAE 90.1	
438000 Btu/hr		10.1 EER		13 IEER		2016 Compliant

### Internal Static Pressure Drop Calculation

External Static Pressure:	2.00
Outside Air Damper:	0.01
Filter:	0.04
Cooling Coil:	0.16
Energy Wheel and Filters:	0.00
Gas Heat:	0.11
Total Static Pressure:	2.33 inH <sub>2</sub> O

### Sound Power

Inlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
68	74	75	70	66	61	59	56
Outlet							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
74	81	80	79	75	70	66	62
Radiated							
63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
84	94	92	91	88	86	84	83

### Options

Electrical	
Field Connection:	Non-Fused Disc Sw, Unit powered 115V GFI outlet
Power Options:	Phase Failure Monitor
Controls	
Temperature Controls:	DDC controls, no BAS communication card

Technical Data Sheet for RTU B6

Factory Installed Sensors	
Leaving Coil/Entering Fan Temp Sensor	
Duct High Limit Switch	
Duct Static Pressure Sensor	
Return Air Temperature Sensor	
Discharge Air Temperature Sensor	
Outside Air Temperature Sensor	
Dirty Filter On/Off Switch	
Airflow Proving Switch	

Warranty	
Parts Warranty:	Standard one year
Compressor Warranty:	Standard one year
Heat Exchanger Warranty:	Standard one year


AHRI Certification	
	All equipment is rated and certified in accordance with AHRI 340/360

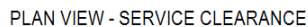
Notes	


Accessories	
Part Number	Description
Note:	
500144201	14" Roofcurb, size 040-050

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.



<b>Product Drawing</b>		Unit Tag: RTU B6		Sales Office: Daikin TMI LLC (Kansas City)		 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 10.01
Product:		Project Name: LSSD Lees Summit HS		Sales Engineer:		
Model: MPS040F		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS      Tolerance: +/- 0.25" Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						



<b>Product Drawing</b>	Unit Tag: RTU B6			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 10.01
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: MPS040F	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

Technical drawing of a bridge deck cross-section. The drawing shows a rectangular deck with internal structural elements. Key dimensions and labels include:

- Top Dimensions:**
  - 2.00 [51 mm] (width of top flange)
  - 30.63 [778 mm] (width of top flange)
  - 28.25 [718 mm] (width of top flange)
- Internal Structure:**
  - RA OPNG** (Right Abutment Opening) and **SA OPNG** (Side Abutment Opening) are indicated by dashed lines.
  - 71.38 [1813 mm]** (height of the main deck section)
  - 15.87 [403 mm]** (height of the lower section)
- Bottom Dimensions:**
  - 2.00 [51 mm] (width of bottom flange)
  - 1.25 TYP [32 mm] (typical width of bottom flange)
  - 69.39 [1763 mm] (width of bottom flange)
  - 1.63 [41 mm] (width of bottom flange)
  - 105.45 [2678 mm] (width of bottom flange)
  - 208.57 (INSIDE CURB) [5298 mm] (total width of the deck)
- Other Labels:**
  - See Knockout Detail** (pointing to a circular feature in the bottom flange)
  - 87.25 [2216 mm] (INSIDE CURB)** (height of the main deck section)

Technical drawing of a boat hull cross-section. The drawing shows a hull with a flat bottom and a curved upper section. Key dimensions and features are labeled:

- Top Width:** 2.00 [51 mm]
- Left Side Width:** 1.00 [25 mm]
- Knockouts (Top):**
  - $\phi 3.00$  KNOCKOUT (2) - Two circular knockouts on the top right.
  - $\phi .88$  KNOCKOUT (4) - Four small circular knockouts on the top left.
- Right Side Width:** 2.28 [58 mm]
- Bottom Width:** 2.00 [51 mm]
- Overall Length:** 28.92 [735 mm]
- Internal Length:** 3.75 [95 mm]

**CURB CROSS SECTION**

① Unit Base  
 ② Curb Gasketing  
 ③ 2X4 Nailer Strip  
 ④ Galvanized Curb  
 ⑤ Can't Strip (not furnished)  
 ⑥ Roofing Material (not furnished)  
 ⑦ Ridgid Insulation (not furnished)  
 ⑧ Counter flashing (not furnished)  
 ⑨ Ductwork (not furnished)

**Job Number:** 8XB73N **Page** 11/16/2020  
**Job Name:** LSSD Lees Summit HS Remodel 36 of 57 **Prepared Date:** www.DaikinApplied.com



## Technical Data Sheet for RTU-B9

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	11/16/2020	
Submitted By	John Duckworth	
Software Version	07.31	
Unit Tag	RTU-B9	
FPA#	1	



Unit Overview				
Model Number	Voltage V/Hz/Phase	Design Cooling Capacity Btu/hr	AHRI 360 Standard Efficiency	ASHRAE 90.1
RPS080D	460/60/3	841673	9.7	2016 Compliant

Unit	
Model Number:	RPS080D
Altitude:	0 ft
Heat Type:	Gas
Condenser Type:	Air-Cooled
Approval	ETL/MEA-USA unit

Physical				
Unit				
Length	Height	Width	Weight	Estimated Lifting Lugs
394 in	97.0 in	99.0 in	12359 lb	3 per side

Electrical			
Voltage	MCA	MROPD	SCCR
460/60/3	149.1 A	150 A	10 kAIC
Note:	Use only copper supply wires with ampacity based on 75° C conductor rating. Connections to terminals must be made with copper lugs and copper wire.		

Return/Outside/Exhaust Air		
Outside Air Option		
Type	Pressure Drop	Damper Actuator
California and 90.1 Compliant Economizer	0.05 inH <sub>2</sub> O	Electric Actuator
Return Air Option		
Return Air Location:	Bottom	

Filter Section				
Physical				
Type	(Quantity) Height x Width x Depth	Face Area	Face Velocity	Air Pressure Drop
2 in. 85% Nominal Efficiency (MERV 13)	(11) 16 in x 20 in x 2 in (33) 16 in x 25 in x 2 in	116.1 ft <sup>2</sup>	146.4 ft/min	0.07 inH <sub>2</sub> O

# Technical Data Sheet for RTU-B9

## DX Cooling Coil

Physical								
Fins per Inch	Rows	Face Area	Face Velocity	Air Pressure drop	Drain Pan Material	Casing Material		
12	4	53.9 ft²	315.4 ft/min	0.32 inH₂O	Painted Galvanized	Galv. Steel		
Cooling Performance								
Capacity		Refrigerant Type	Indoor Air Temperature				Ambient Air Temperature	
Total Btu/hr	Sensible Btu/hr		Entering		Leaving		Dry Bulb °F	Wet Bulb °F
			Dry Bulb °F	Wet Bulb °F	Dry Bulb °F	Wet Bulb °F		
841673	594413	R410A	85.9	69.5	53.9	53.8	100.0	75.0

## Fan Section

Fan			
Type	Fan Wheel Diameter		Fan Isolation
AF DWDI	33 in		Rubber in Shear
Performance			
Airflow	Total Static Pressure	Fan Speed	Brake Horsepower
17000 CFM	2.59 inH <sub>2</sub> O	886 rpm	9.63 HP
Motor			Drive
Type	Horsepower	FLA	Type
ODP, Premium Efficiency	15.0 hp	17.7 A	Standard service factor, Fixed drive

## Gas Heat Section

Physical					
Gas Heat Size	Heat Exchanger Material	Modulation	Gas Pressure		
			Minimum In WC	Maximum Psi	
650 MBH	Type 321 Stainless Steel	Hi Turndown - 20:1	6.5	0.5	
Performance					
Gas Heat Airflow CFM	Input Capacity Btu/hr	Output Capacity Btu/hr	Air Temperature Dry Bulb		Air Pressure Drop inH <sub>2</sub> O
			Entering °F	Leaving °F	
17000	812500	650000	31.7	66.9	0.14

## Discharge Plenum

Discharge Location:	Bottom
---------------------	--------

## Unit Discharge Conditions

Air Temperature				
DX coil Configuration:	Draw-thru Coil			
Motor Heat Btu/hr	Moisture Removal lb/h	Unit Leaving Dry Bulb °F	Unit Leaving Wet Bulb °F	Unit Leaving Dewpoint °F
28333	210.2	55.5	54.4	53.8

## Technical Data Sheet for RTU-B9

Condensing Section				
Compressor				
Type	Quantity	Total Power	Capacity Control	Compressor Isolation
Scroll	6	77.2 kW	6 stage	Resilient
Compressor Amps:				
Fixed Speed Compressor 1		18.6 A		
Fixed Speed Compressor 2		18.6 A		
Fixed Speed Compressor 3		18.6 A		
Fixed Speed Compressor 4		18.6 A		
Fixed Speed Compressor 5		18.6 A		
Fixed Speed Compressor 6		18.6 A		
Condenser Coil				
Type	Fins per Inch	Fin Material	Refrigerant Charge	
Aluminum tube MicroChannel	18	Aluminum	84.6 lb	
Condenser Coil Options:	Build in Hail Protection			
Condenser Fan Motors				
Number of Motors		Full Load Current (each)		
6		2.1 A		
AHRI 360 Certified Data at AHRI 360 Standard Conditions				
EER	IEER		ASHRAE 90.1	
9.7	13.7		2016 Compliant	

Sound								
Sound Power (db)								
Frequency	63 Hz	125 Hz	250 Hz	500 Hz	1 kHz	2 kHz	4 kHz	8 kHz
Inlet	84	85	79	74	71	64	56	48
Discharge	82	81	72	70	67	61	53	45
Radiated	-	96	93	91	91	88	85	83

Supply Fan Total Pressure Drop Calculation	
External Static Pressure:	2.00 inH <sub>2</sub> O
Filter:	0.07 inH <sub>2</sub> O
Outside Air:	0.05 inH <sub>2</sub> O
DX Coil:	0.32 inH <sub>2</sub> O
Gas Heat:	0.14 inH <sub>2</sub> O
Total Static Pressure:	2.59 inH <sub>2</sub> O

## Technical Data Sheet for RTU-B9

Options	
Unit	
Unit Exterior:	Prepainted Galvanized Steel
Insulation and Liners:	2", 1 1/2# nominal insulation, full solid liners
Electrical	
Electrical Connection Option:	Single thru door disconnect switch
GFI 115v Receptacle:	Field powered
Controls	
Application:	Variable Volume - Discharge Air Control
Temperature Control:	DAC, No communication card
Fan Speed Control:	Factory mounted Inverter
Inverter Manufacturer:	Daikin
Inverter Location:	Inverter(s) in fan section
Airflow Control:	1 duct sensor
Economizer Control:	Outside Air Dry Bulb and Enthalpy Control
Low Ambient:	Fantrol, operation to 45 deg F (7.22 deg C)

Warranty	
Parts:	Standard 1 year
Compressor:	Standard 1 year
Gas Heat Exchanger:	One year heat exchanger warranty

### AHRI Certification



All equipment is rated and certified in accordance with AHRI 360.

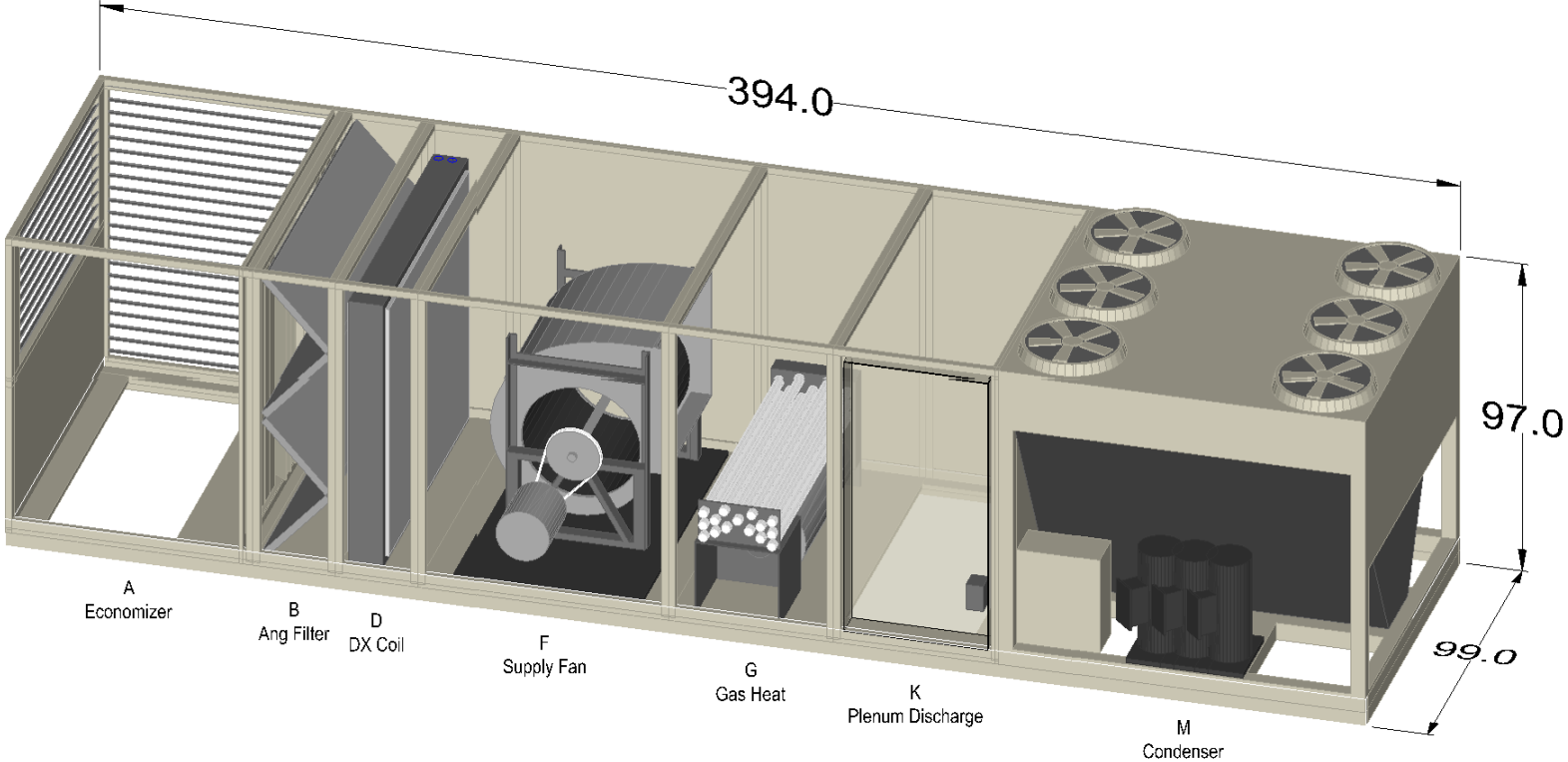
Specials	
Unit	
Specials Description:	Provide a 72" economizer section with reduced return opening. Unit must be marked as a special for processing. Use FPA# "72Econo" if no other specials from Applications.

### Notes

As a standalone component, unit meets or exceeds the requirements of ASHRAE 90.1.2010. The approving authority is responsible for compliance of multi-component building systems.

### Accessories

Optional	
Part Number	Description
0199999901	Roofcurb



**Product Drawing**

Product:

Model: RPS080D

Unit Tag: RTU-B9

Project Name: LSSD Lees Summit HS

Nov. 16, 2020

Ver/Rev:

Sheet: 1 of 1

Sales Office: Daikin TMI LLC (Kansas City)

Sales Engineer:

Scale: NTS

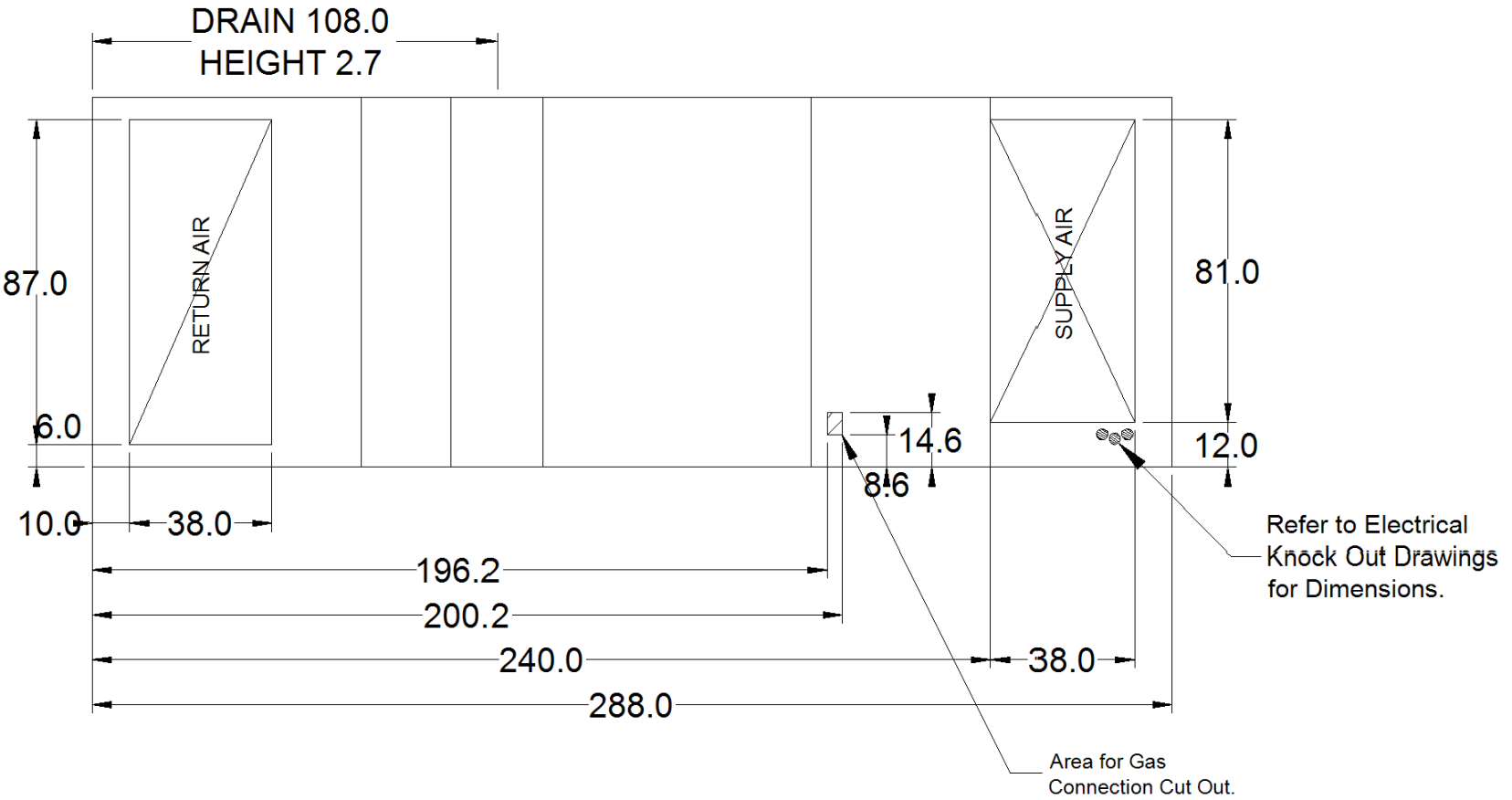
Tolerance: +/- 0.25"

Dwg Units: in [mm]




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www.DaikinApplied.com Software Version: 07.31

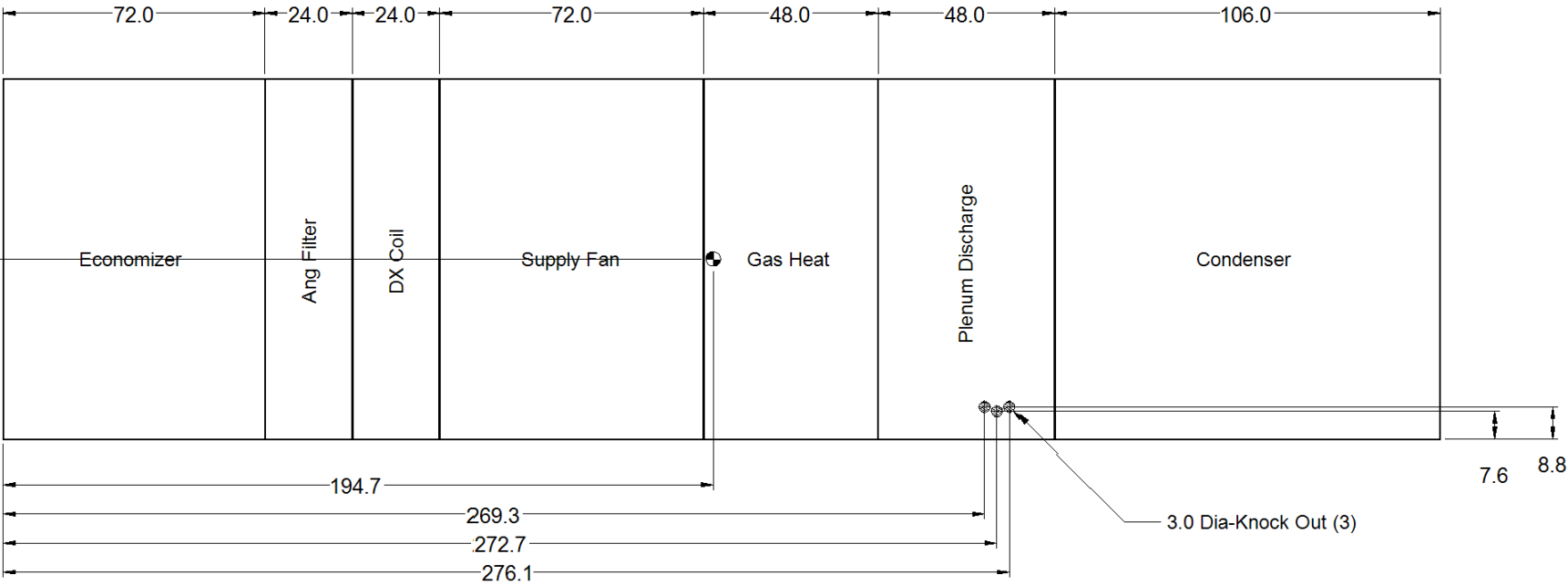
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.




## PLAN VIEW - OPENINGS & OVERALL

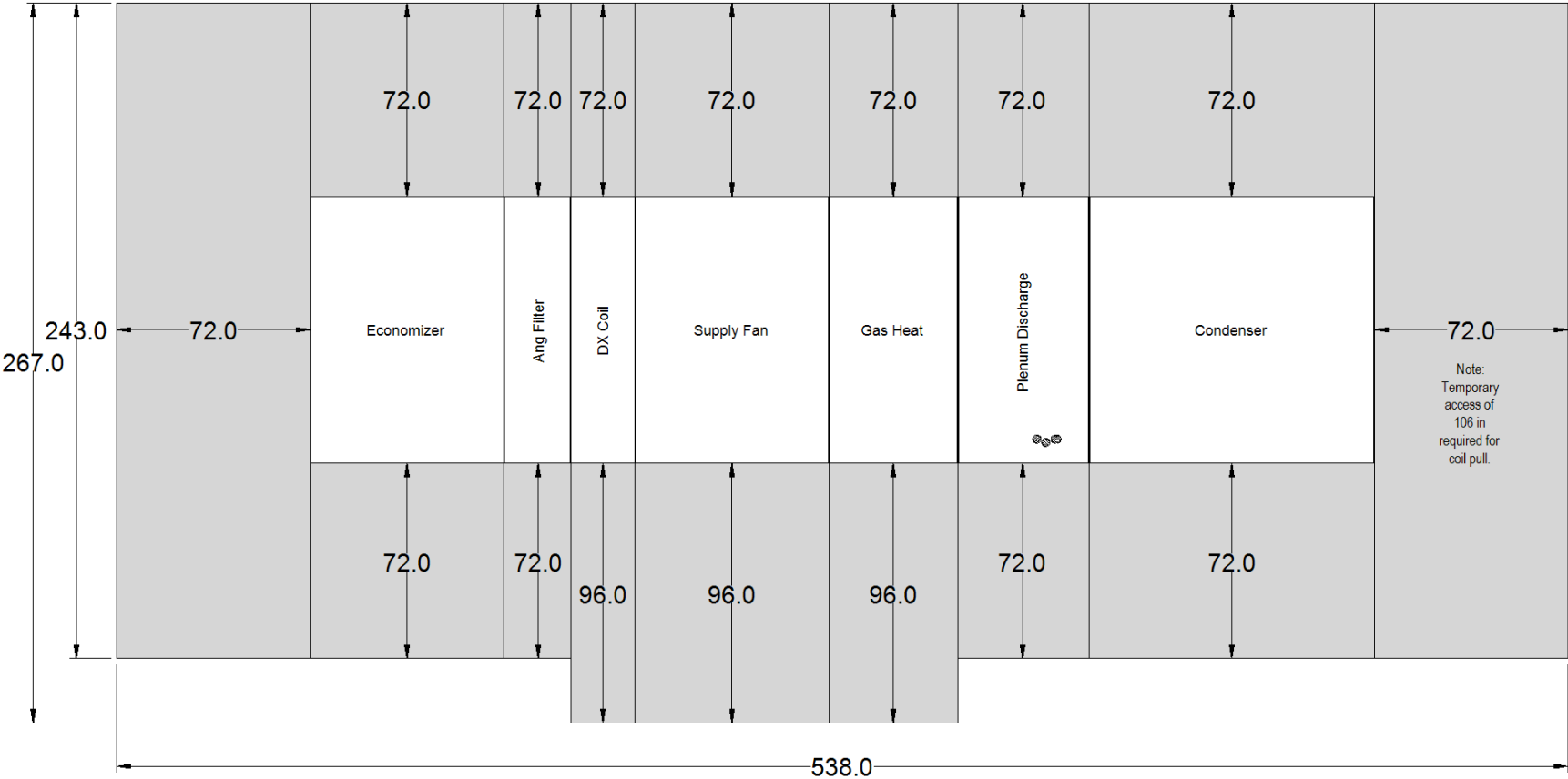
Product Drawing	Unit Tag: RTU-B9			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 07.31
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: RPS080D	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	

No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.




PLAN VIEW - KNOCK OUTS & CENTER-OF-GRAVITY

<b>Product Drawing</b>		Unit Tag: RTU-B9			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 07.31
Product:		Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: RPS080D		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.								




PLAN VIEW - SERVICE CLEARANCE

Product Drawing	Unit Tag: RTU-B9			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd. Minneapolis, MN 55441 www.DaikinApplied.com      Software Version: 07.31
Product:	Project Name: LSSD Lees Summit HS			Sales Engineer:			
Model: RPS080D	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/- 0.25"	Dwg Units: in [mm]	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.							

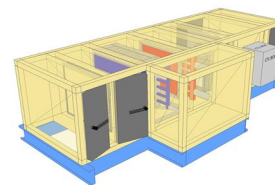




<b>Product Drawing</b>		Unit Tag: RTU-B9		Sales Office: Daikin TMI LLC (Kansas City)		 13600 Industrial Park Blvd. Minneapolis, MN 55441 <a href="http://www.DaikinApplied.com">www.DaikinApplied.com</a> Software Version: 07.31
Product:		Project Name: LSSD Lees Summit HS		Sales Engineer:		
Model: RPS080D		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS      Tolerance: +/- 0.25"      Dwg Units: (in)	
No change to this drawing may be made unless approved in writing by Daikin Applied. Purchaser must determine that the equipment is fit and sufficient for the job specifications.						

## Technical Data Sheet for RTU C3

Job Information		Technical Data Sheet
Job Name	LSSD Lees Summit HS Remodel	
Date	November 16 2020	
Submitted By	JD	
Software Version	12.41	
Unit Tag	RTU C3	



Unit Overview						
Model Number	Air Volume cfm	Supply				
		Static Pressure		External Dimensions		
		External inWc	Total inWc	Height in	Width in	Length in
OAH004GDCM	1450	0.75	3.43	28*	38*	120


*\*Not including base rails, coil connectors, drain connectors, vestibule sections, control boxes and hoods.*


Unit			
Model Number:	OAH004GDCM		
Approval:	ETL Listed / ETL Listed to Canadian Safety Standards (ETL Label / ETLc Label)		
Outer Panel:	Painted 24 gauge G60 Galvanized Steel		
Liner:	24 gauge Galvanized Steel (unless noted per section)		
Insulation:	R-13 Injected Foam		
Unit Configuration:	Inline horizontal	Drive (Handling) Location:	Right
Base:	Curb ready	Wall Thickness:	2 in
Roof Curb Kit:	0 in	Altitude:	0 ft
Parts Warranty:	Standard One Year		

Plenum Section	Component: 1	Length: 14 in	Shipping Section: 1
Opening Location	Opening Size		Air Pressure Drop
Bottom	10.00" x 30.00"		0.03 inWc
Door			
Location	Width		Opening
Drive side	10 in		Outward

Combination Filter			Component: 2			Length: 16 in		Shipping Section: 1	
Access			Face Velocity			Face Area		Air Volume	
Side			461 ft/min			3.1 ft²		1450 cfm	
Portion	Type	Efficiency	Air Pressure Drop			Number of Filters	Height	Width	Depth
			Clean Air	Mean Air	Dirty Air				
Pre-Filter	Pleated	MERV 8	0.21 inWc	0.60 inWc	1.00 inWc	1	20 in	24 in	2 in
Filter	Pre Pleat	MERV 13	0.20 inWc	0.60 inWc	1.00 inWc	1	20 in	24 in	4 in
Door									
Location			Width			Opening			
Drive side			12 in			Outward			

## Technical Data Sheet for RTU C3

Chilled Water Coil		Component: 3			Length: 24 in		Shipping Section: 1		
Coil Model	Total Capacity	Sensible Capacity	Number of Coils		Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)	
5WH0908B	51627 Btu/hr	42054 Btu/hr	1		8	9	0.625 in	1.50 in x 1.299 in	
Air Volume	Air Temperature				Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity
	Entering		Leaving						
	Dry Bulb	Wet Bulb	Dry Bulb	Wet Bulb					
1450 cfm	79.0 °F	64.2 °F	52.5 °F	52.0 °F	0.72 inWc	18 in	25 in	3.13 ft²	464 ft/min
Water		Flow Rate	Pressure Drop	Velocity	Volume	Weight	Piping Vestibule		
Entering	Leaving								
44.0 °F	54.8 °F	9.60 gpm	2.20 ftHd	1.70 ft/s	3.0 gal	32.00 lb	18 in		
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor		
Type	Size	Location	Material						
Threaded	1.50 in	Drive side	Carbon steel	44.0 °F	44.0 °F	0.000			
Material						Drain Pan	Drain Side		
Fin	Tube	Header	Case						
Aluminum .0075 in	Copper .020 in	Copper	Galv. steel	Stainless steel	Opp drive side				
AHRI 410 Certification									
<div>Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at <a href="http://www.ahridirectory.org">www.ahridirectory.org</a></div>									

Hot Water Coil		Component: 4			Length: 16 in		Shipping Section: 1	
Coil Model		Total Capacity	Number of Coils	Number of Rows	Fins per Inch	Tube Diameter	Tube Spacing (Face x Row)	
5WH0702B		63006 Btu/hr	1	2	7	0.625 in	1.50 in x 1.299 in	
Air Volume	Air Temperature		Coil Air Pressure Drop	Finned Height	Finned Length	Face Area	Face Velocity	
	Entering	Leaving						
	Dry Bulb	Dry Bulb						
1450 cfm		57.0 °F	96.7 °F	0.16 inWc	18 in	22 in	2.75 ft²	527 ft/min
Water		Flow Rate	Pressure Drop	Velocity	Volume	Weight	Piping Vestibule	
Entering	Leaving							
180.0 °F		159.1 °F	6.00 gpm	0.20 ftHd	1.10 ft/s	1.0 gal	14.00 lb	18 in
Connection [Data Per Coil]					Min. Fin Surface Temp.	Min. Tube Wall Surface Temp.	Fouling Factor	
Type	Size	Location	Material					
Threaded		2.50 in	Drive side	Carbon steel	159.1 °F	159.1 °F	0.000	
Material								
Fin		Tube		Header		Case		
Aluminum .0075 in		Copper .020 in		Copper		Galv. steel		
AHRI 410 Certification								
		Certified in accordance with the AHRI Forced-Circulation Air-Cooling and Air-Heating Coils Certification Program which is based on AHRI Standard 410 within the Range of Standard Rating Conditions listed in Table 1 of the Standard. Certified units may be found in the AHRI Directory at <a href="http://www.ahridirectory.org">www.ahridirectory.org</a>						

## Technical Data Sheet for RTU C3

Supply Fan Array				Component: 6		Length: 24 in			Shipping Section: 1				
Fan Performance													
Air Volume*	Static Pressure			Fan Energy Index(FEI)*	Total Input Power*	Fan Shaft Power*	Speed		Redundancy(N-1)	Fan Circuit			
	External	Total	Cabinet				Operating	Maximum			MOP	MCA	
1450 cfm	0.75 inWc	3.43 inWc	0.50 inWc	-	-	1.20 BHP	2376 rpm	3230 rpm	0.0 %	15.0 A	3.8 A		
Fan Data													
Fan Type		Blade Type / Class		Quantity of Fans		Wheel Diameter		Number of Blades		Discharge		Motor Location	
ECM / 1x1 : 1		Airfoil / N/A		1		13.98 in		5		Axial		Behind Fan	
Motor Data													
Power*		Electrical Supply		Speed		Control Signal		Supplier		Lock Rotor Current*		Full Load Current*	
2.3 HP		460/60/3 V/Hz/Phase		2870 rpm		0-10V		EBM-Papst		3.00 A		3.00 A	
Fan Options													
Isolation Backdraft Dampers:			Provided			Isolator Type:			Rigid				
VFD/Starter/Disconnect Data													
Selection Type:			Integrated Drive			Vendor:			Daikin Applied				
Auxiliary Control:			Disconnect w/ motor starter			Voltage:			460 v				
Disconnect Type:			Fused			Height x Width x Depth:			15.75 in x 11.81 in x 10.76 in				
Mounting:			Drive Side			Enclosure:			NEMA 3R				
Door													
Location				Width				Opening					
Non-drive side				20 in				Outward					
Notes													
* after a unit label denotes the data for an individual fan.													

Plenum Section	Component: 7	Length: 14 in	Shipping Section: 1
Opening Location	Opening Size	Safety Grating	Air Pressure Drop
Bottom	10.00" x 30.00"	Yes	0.06 inWc
Door			
Location	Width		Opening
Drive side	10 in		Outward

Unit Sound Power (dB)								
Type	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
Radiated:	64	58	60	46	42	41	46	51
Unit Discharge:	64	59	72	59	58	56	55	51
Unit Return:	64	58	60	49	44	43	46	51

Technical Data Sheet for RTU C3

Shipping Section Details									
Section	Length in	Weight lb	Corner Weights (lb)				Center of Gravity (in)		
			P1	P2	P3	P4	XX	YY	ZZ
1	120	1447	434	312	289	411	58	16	17
Entire Unit	120	1447	434	312	289	411	58	16	17

NOTE: Piping vestibule shipping section length(s) not included in the total shipping section length.

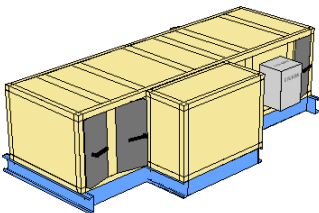
NOTE: Piping vestibule(s) are shipped attached to the coil section(s).

NOTE: Special components aren't included in the corner weights and center of gravity data.

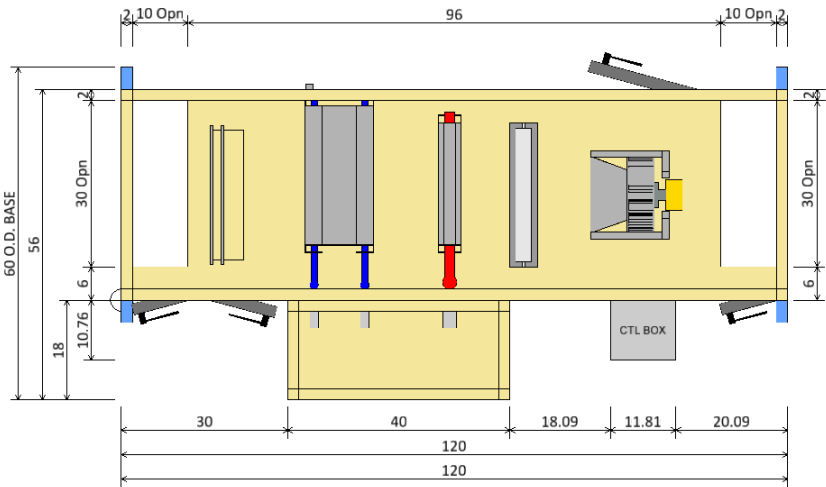
Supply Static Pressure Drop		
Component	Option	Static Pressure Drop
Plenum Section	Plenum Section	0.03 insWg
Panel and Bag Filter	Panel and Bag Filter	1.21 insWg
Chilled Water coil	Chilled Water coil	0.72 insWg
Hot Water Coil	Hot Water Coil	0.16 insWg
Damper	Damper	-
Supply Fan	Cabinet	0.50 insWg
Plenum Section	Plenum Section	0.06 insWg
External Static	External Static	0.75 insWg
Total Supply Static		3.43 insWg

AHRI Certification	
The air-handler is selected outside of the scope of AHRI Standard 430/431	

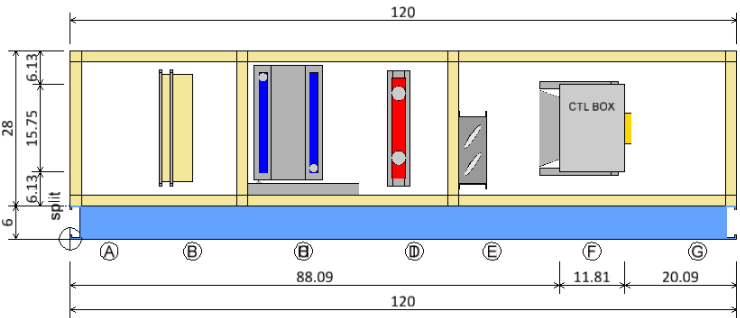
Notes	
Standard	
1. As a standalone component, unit meets or exceeds requirements of ASHRAE 90.1 - 2007. The approving authority is responsible for compliance of multi - component building systems.	



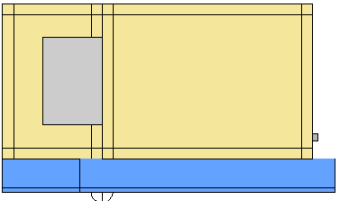
ISOMETRIC VIEW



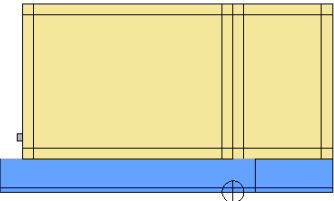
PLAN VIEW




ELEVATION VIEW

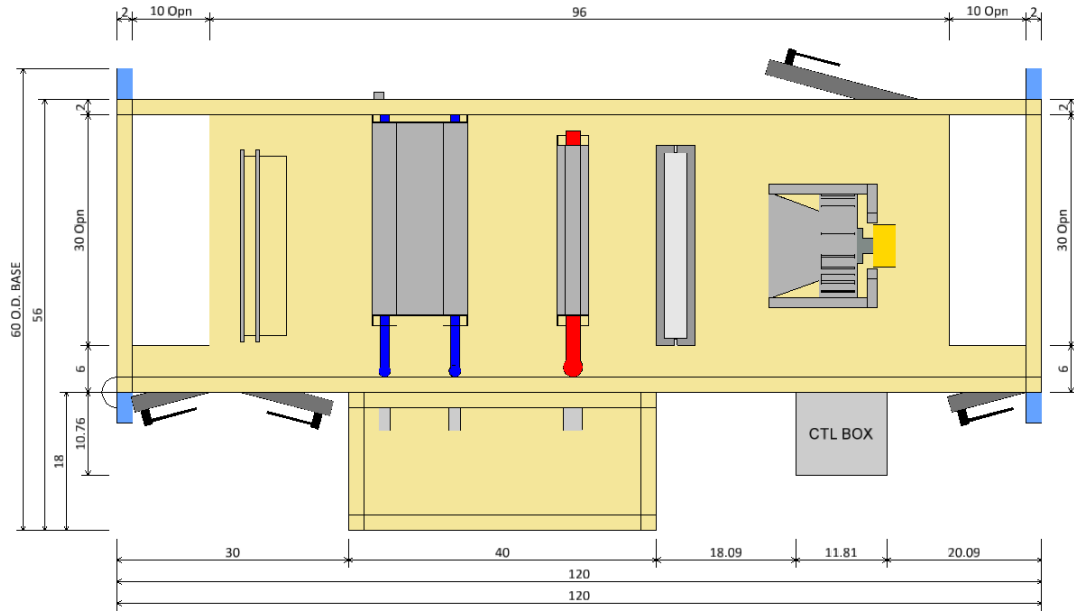


REAR END VIEW

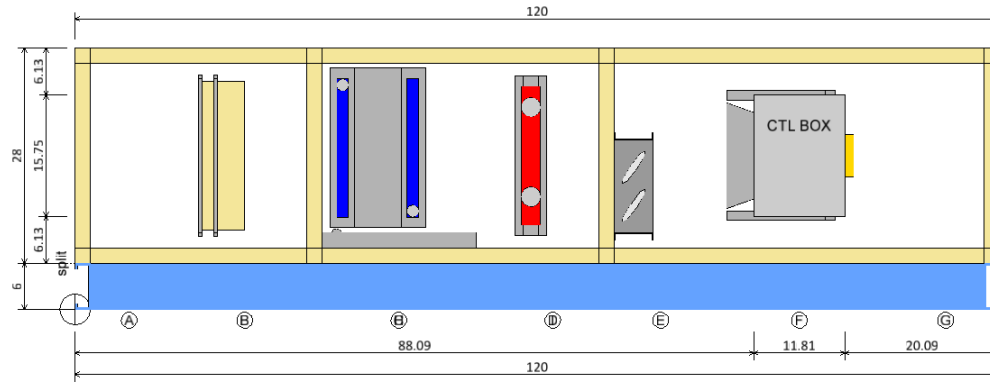


FRONT END VIEW

Plan/Elevation	Unit Tag: RTU C3			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Skyline Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: OAH004GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	



PLAN VIEW



ELEVATION VIEW

Component Key

Plenum Section	
(A) Opening Location:	Bottom
Opening Size:	10 ins x 30 ins
Right Door (WxH):	10 ins x 24 ins
Panel and Bag Filter	
(B) Pre Filter Type:	Pleated (MERV 8)
Bag Filter Type:	Pre Pleat M13
Right Door (WxH):	12 ins x 24 ins
Chilled Water coil	
(C) Coil Model:	5WH0908B
Total Capacity:	51627.0 Btu/hr
Hot Water Coil	
(D) Coil Model:	5WH0702B
Total Capacity:	63006.0 Btu/hr
Damper	
(E) Supply Fan	
Fan Type:	Centrifugal - Plenum
Fan Size (Class):	355 (2)
Air Flowrate:	1450.0 cfm
T.S.P.:	3.4 insWg
Motor Power:	2.3 HP
Control box door swing:	11.81 ins
Left Door (WxH):	20 ins x 24 ins
Plenum Section	
(G) Opening Location:	Bottom
Opening Size:	10 ins x 30 ins
Right Door (WxH):	10 ins x 24 ins
(H) Vestibule Section	
(I) Vestibule Section	

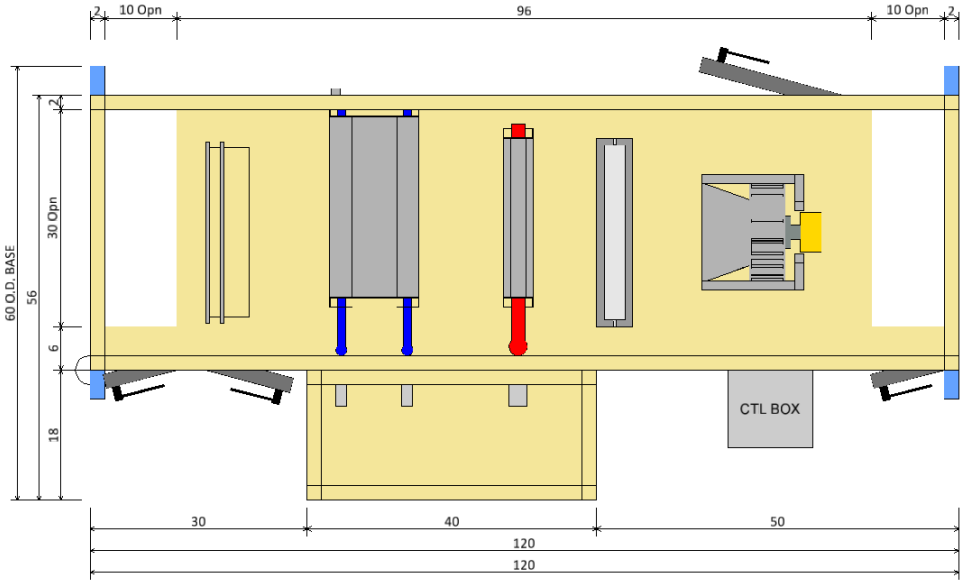
Opening dimensions shown are for unit only, refer to curb drawing for duct opening dimensions.

Plan/Elevation - No Ends		Unit Tag: RTU C3		Sales Office: Daikin TMI LLC (Kansas City)		
Product: Skyline Air Handler		Project Name: LSSD Lees Summit HS Remodel		Sales Engineer:		
Model: OAH004GDCM		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"
				Dwg Units: in		

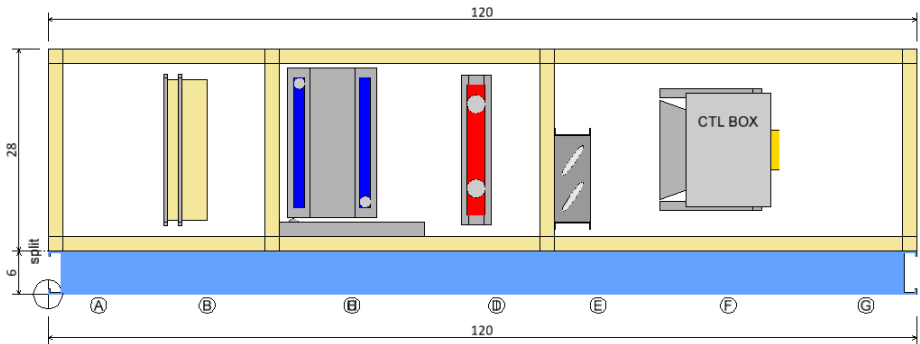


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 www.DaikinApplied.com Software Version: 12.41





PLAN VIEW




ELEVATION VIEW

Component Key						
	Type	X	Y	Z	Wid	Hgt
(A)	Plenum Section Opening	2.00	6.00	6.00	30.00	10.00
(G)	Plenum Section Opening	108.00	6.00	6.00	30.00	10.00

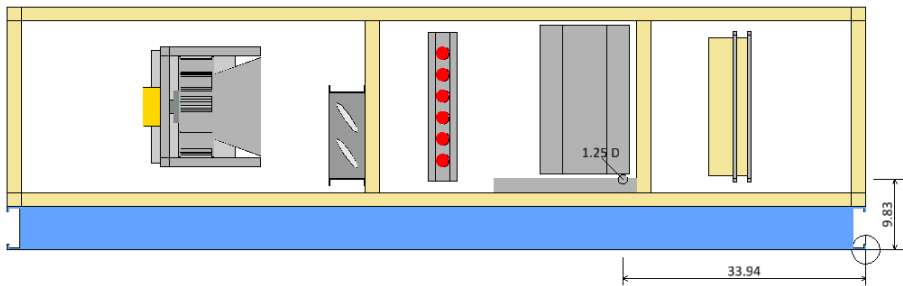
Opening dimensions shown are for unit only, refer to curb drawing for duct opening dimensions.

Note: Dimensions are measured from the origin point.

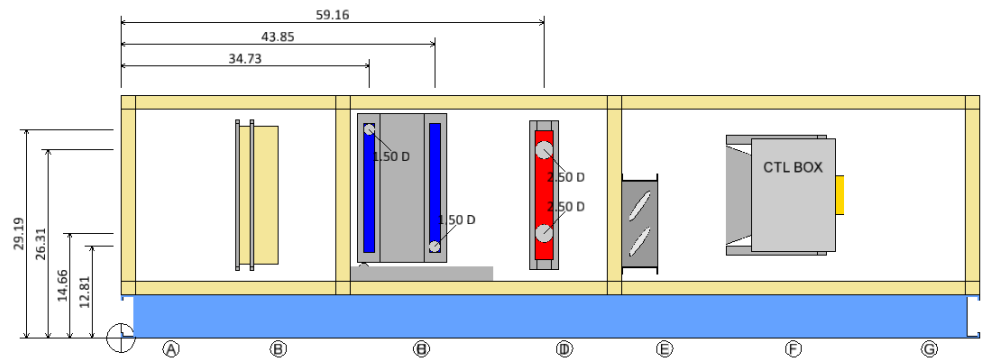
Opening/Damper Connections		Unit Tag: RTU C3			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Skyline Air Handler		Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: OAH004GDCM		Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

Coil and Drain Connections					
	Type	X	Y	Z	Diam
C	Chilled Water coil	33.94	40.90	9.83	1.25
	Condensate drain conn:	43.85	-7.00	12.81	1.50
	Cold water inlet:	34.73	-7.00	29.19	1.50
D	Hot Water Coil	59.16	-7.00	14.66	2.50
	Hot water inlet:	59.16	-7.00	26.31	2.50
	Hot water outlet:				


Note: Dimensions are measured from the origin point.



LEFT ELEVATION VIEW

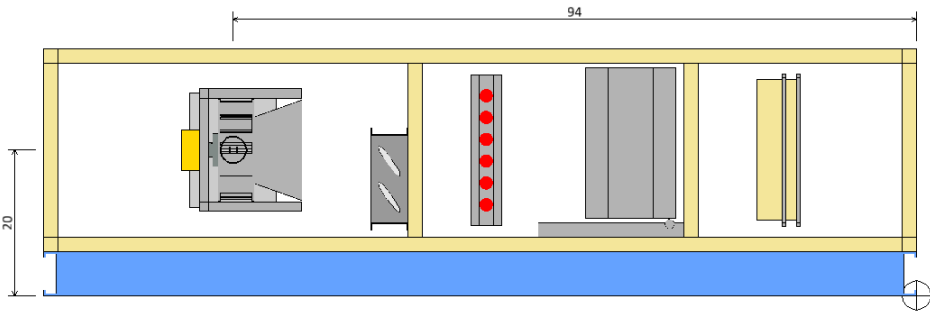


RIGHT ELEVATION VIEW

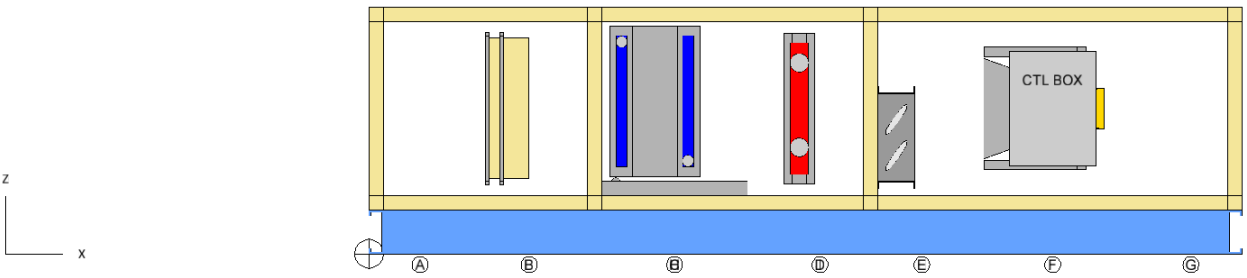
Coil and Drain Connections	Unit Tag: RTU C3			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Skyline Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: OAH004GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

Component Key						
	Type	X	Y	Z	Volts	Phase
Ⓕ	Supply Fan Fan	94.00	38.00	20.00	460	3


Note: Dimensions are measured from the origin point.

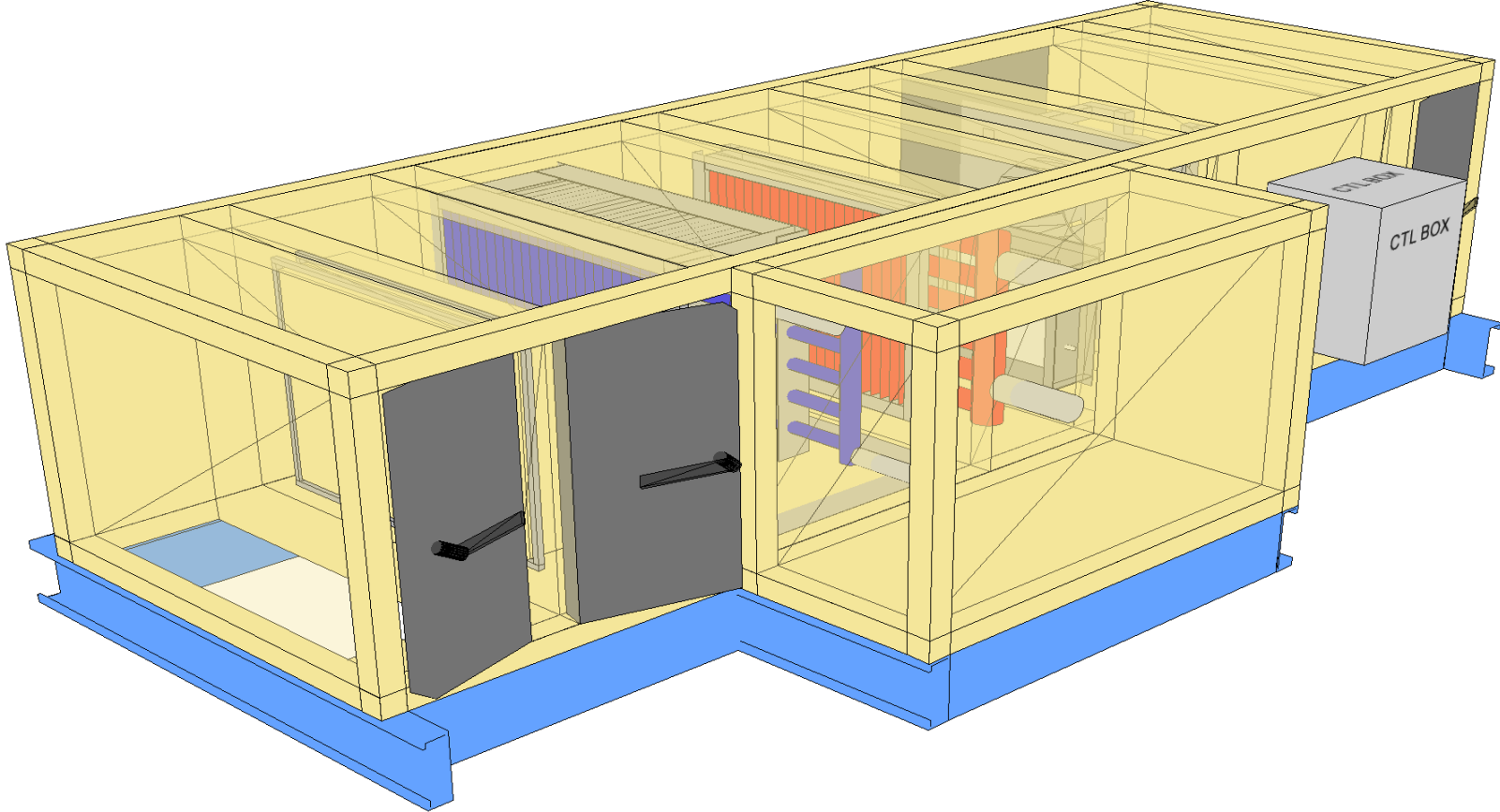



LEFT ELEVATION VIEW



RIGHT ELEVATION VIEW

Electrical Connections	Unit Tag: RTU C3			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Skyline Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: OAH004GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	



Product Drawing	Unit Tag: RTU C3			Sales Office: Daikin TMI LLC (Kansas City)			 13600 Industrial Park Blvd, Minneapolis, MN 55441 www.DaikinApplied.com    Software Version: 12.41
Product: Skyline Air Handler	Project Name: LSSD Lees Summit HS Remodel			Sales Engineer:			
Model: OAH004GDCM	Nov. 16, 2020	Ver/Rev:	Sheet: 1 of 1	Scale: NTS	Tolerance: +/-0.25"	Dwg Units: in	

## Document Summary Page