

Performance Specification

Project Name: **Stock Scrolls for Ordering Stock 4-22-25**

Unit Tag:
YLAA0082HJ46VSD

Qty.: **1**

Model: **YLAA0082HJ46XF**

Full Load - Design

PIN

YLAA0082HJ	46XFBCTXA	SXBLXCXX44	SE1XXXHXXX	YUXGXXX3XX	XVGNXXXXXX			
...5...10	...5...20	...5...30	...5...40	...5...50	...5...60	...5...70	...5...80	...5...90

Unit

Model No.	YLAA0082HJ46XFB
Number of Compressors	6
Compressor Type	Scroll - Hermetic
Number of Compressor Circuits	2
Refrigerant	R454B

Performance Data

Cooling Capacity [tons.R]	76.82
Total Power Input [kW]	87.51
EER [Btu/W.h]	10.53
IPLV.IP [Btu/W.h]	17.90
A-Weighted Sound Power [dB(A)]	94.0
Sound Pressure (Hemispherical Method) [dB(A)]	65.0
Sound Pressure Measured at [ft]	30.0

Electrical Data

Nominal Voltage / Voltage Limits	460/3/60 / 414-506
Compressor RLA (each circuit) [A]	26.9 / 26.9 / 26.9 / 24.4 / 24.4 / 24.4
High LRA Current (each circuit) [A]	180.0 / 180.0 / 180.0 / 145.0 / 145.0 / 145.0
Fan QTY (each circuit)	2 / 2
Fan FLA (each circuit) [A]	3.4 / 3.4
Min. Circuit Ampacity [A]	179.0
Recommended Fuse / CB Rating [A]	200.0
Max. Inverse Time CB Rating [A]	200.0
Max. Dual Element Fuse Size [A]	200.0
Unit Short Circuit Withstand [kA]	65 kA/460
Wires Per Phase	1
Wire Range (Lug Size)	#4 AWG - 300 kcmil
Compressor kW	80.79



Performance Impacting Options

Starter Type	Across the line starter
Power Factor Correction Capacitor	No Power Capacitor required
Remote Evaporator	Standard Cooler required
Sound Kit	No Acoustic Blanket required
Fan	Low Sound Fans with VSD

Weight & Dimensional Data

Shipping Weight [lbs]	4533
Operating Weight [lbs]	4616
Refrigerant Charge [lbs]	63
Length [in]	101.4
Width [in]	88.3
Height [in]	94.2



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Page 2 of 4

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Heat Exchanger Performance

Evaporator		Condenser (Air Cooled)	
Heat Exchanger Type	Plate Heat Exchanger	Ambient Air Temperature* [°F]	95.0
Entering Fluid Temperature* [°F]	54.00	Altitude* [ft]	0.00
Leaving Fluid Temperature* [°F]	44.00	Condensing Temperature [°F]	126.24 / 122.41
Flow Rate [USGPM]	183.4	Number of Fans	2 / 2
Fouling Factor* [h ft ² F/Btu]	0.000100	Total Air Flow [cfm]	60000
Fluid Type*	Water	Total Fan Power [kW]	6.720
Fluid Volume [USGAL]	10.0		
Evaporating Temperature [°F]	39.84		
Evaporator Pressure Drop [ft H ₂ O]	5.99		
Strainer Pressure Drop [ft H ₂ O]	3.37		
Extension Kit Pressure Drop [ft H ₂ O]	0.00		
Total Pressure Drop [ft H ₂ O]	9.36		
Fluid Connection Diameter [in]	3		
Minimum Flow Rate [USGPM]	138.0		
Maximum Flow Rate [USGPM]	525.0		

* Designates user specified input

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) and AHRI Standard 551/591 (SI). Certified units may be found in the AHRI Directory at www.ahridirectory.org.



Part Load Performance (Based on Standard AHRI Unloading)

Percent Load	Ambient [°F]	Capacity [tons.R]	Power Input [kW]	Unit Efficiency [Btu/W.h]
100.0	95.0	76.82	87.51	10.53
93.4	80.0	71.77	62.65	13.75
74.7	80.0	57.42	46.68	14.76
61.7	65.0	47.43	30.39	18.73
39.6	65.0	30.42	18.00	20.28
41.7	55.0	32.00	16.39	23.43
21.6	55.0	16.57	8.482	23.44

Project Name: Stock Scrolls for Ordering Stock 4-22-25

Unit Guid: 1fb578c1-2fe2-417f-bee4-471978af6428

Rating Engine Version: REV.v9_31a.idd

Unit Name: YLAA0082HJ46VSD

Version: SN25.12a

CHL.2026-01.001

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Page 2 of 4

Performance Specification

Project Name: **Stock Scrolls for Ordering Stock 4-22-25**

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YLAA0082HJ46VSD

Qty.: **1**

Model: **YLAA0082HJ46XF**

Sound Power Levels (In Accordance with AHRI 370)

Percent Load	Ambient [°F]	Octave Band Center Frequency [Hz]								LWA
		63	125	250	500	1000	2000	4000	8000	
100.0	95.0	96.0	95.0	91.0	91.0	88.0	86.0	81.0	77.0	94.0
93.4	80.0	94.0	93.0	89.0	90.0	86.0	85.0	80.0	76.0	92.0
74.7	80.0	92.0	91.0	87.0	88.0	84.0	83.0	78.0	73.0	90.0
61.7	65.0	90.0	89.0	85.0	85.0	82.0	82.0	76.0	71.0	88.0
39.6	65.0	84.0	83.0	79.0	81.0	78.0	79.0	73.0	66.0	85.0
41.7	55.0	84.0	83.0	79.0	81.0	78.0	79.0	73.0	66.0	85.0
21.6	55.0	81.0	80.0	76.0	78.0	75.0	77.0	69.0	64.0	82.0

Note: Unit is equipped with Low Sound Fans with VSD.

Measurement of sound pressure used to obtain the sound power data presented is based on AHRI-370.

Air-cooled chillers are rated in terms of sound power not sound pressure. Johnson Controls provides estimates of sound pressure, but this is not the rating metric.

For an air-cooled chiller, sound pressure calculated from sound power varies depending on how the chiller is assumed to behave, i.e. the radiation model. In other words, determining sound pressure from sound power requires making assumptions that result in different answers at a given distance from the chiller. The environment also influences sound pressure in the field installation. Sound pressure estimation radiation models pertaining to air-cooled chillers include the 'traditional' hemispherical model, parallelepiped model and equivalent hemispherical model.

Regarding sound power, Johnson Controls references tolerance limits based on ASHRAE guidelines. These are +/- 6dB in the 63Hz octave band, +/- 4dB in all other octave bands and +/- 3dB for the overall dBA.

Tolerance limits are based on uncertainties associated with:

1. Measurement Test Procedure
2. Repeatability
3. Production / Manufacturing Variability

Standard deviation associated with air-cooled chiller sound data is a measure of spread i.e. it indicates the range of probability of sound levels. Note that for operating conditions other than AHRI's Standard Rating Condition, higher levels of uncertainty can be expected.

Lead times for factory performance testing depend on test laboratory availability. Please confirm with Johnson Controls Customer Service.

Estimated Sound Pressure Levels at 30.0 ft (Derived from AHRI 370 Sound Power using Hemispherical Method)

Percent Load	Ambient [°F]	Octave Band Center Frequency [Hz]								LpA
		63	125	250	500	1000	2000	4000	8000	
100.0	95.0	67.0	66.0	62.0	62.0	59.0	57.0	52.0	48.0	65.0
93.4	80.0	65.0	64.0	60.0	61.0	57.0	56.0	51.0	47.0	63.0
74.7	80.0	63.0	62.0	58.0	59.0	55.0	54.0	49.0	44.0	61.0
61.7	65.0	61.0	60.0	56.0	56.0	53.0	53.0	47.0	42.0	59.0
39.6	65.0	55.0	54.0	50.0	52.0	49.0	50.0	44.0	37.0	56.0
41.7	55.0	55.0	54.0	50.0	52.0	49.0	50.0	44.0	37.0	56.0
21.6	55.0	52.0	51.0	47.0	49.0	46.0	48.0	40.0	35.0	53.0



Performance Report

Page 4 of 4

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YLAA0082HJ46VSD

Qty.: **1**

Model: **YLAA0082HJ46XF**

Performance at AHRI Conditions

Evaporator		Condenser	
EFT [°F]	54.00	Ambient Temp. [°F]	95.0
LFT [°F]	44.00	Altitude [ft]	0.00
Flow Rate [USGPM]	183.4	Performance	
Pressure Drop [ft H2O]	5.99	EER [Btu/W.h]	10.53
Fluid Type	Water	IPLV.IP [Btu/W.h]	17.90
Fouling Factor [h ft2 F/Btu]	0.000100	Net Cooling Capacity [tons.R]	76.82
Fluid Volume [USGAL]	10.0		

Note:Unit rated at design condition capacity.

Part Load Performance (Based on AHRI 550/590 - 2023 (IP))

Percent Load	Ambient [°F]	Capacity [tons.R]	Power Input [kW]	Unit Efficiency [Btu/W.h]
100.0	95.0	76.82	87.51	10.53
93.4	80.0	71.77	62.65	13.75
74.7	80.0	57.42	46.68	14.76
61.7	65.0	47.43	30.39	18.73
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41.7	55.0	32.00	16.39	23.43
21.6	55.0	16.57	8.482	23.44

Notes:

Country of Origin:Mexico

Min flow rate is for chillers using water. For glycol chillers please contact the application engineering team.

This unit does not have a coil coating selected.

Compliant with ASHRAE 90.1 - 2010,2013,2016,2019,2022.

Compliant with IECC - 2012,2015,2018.

Compliant with the requirements of the LEED Energy and Atmosphere Enhanced Refrigerant Management Credit (EAc4).

The product image shown is for illustrative purposes only and is not representative of selected options.



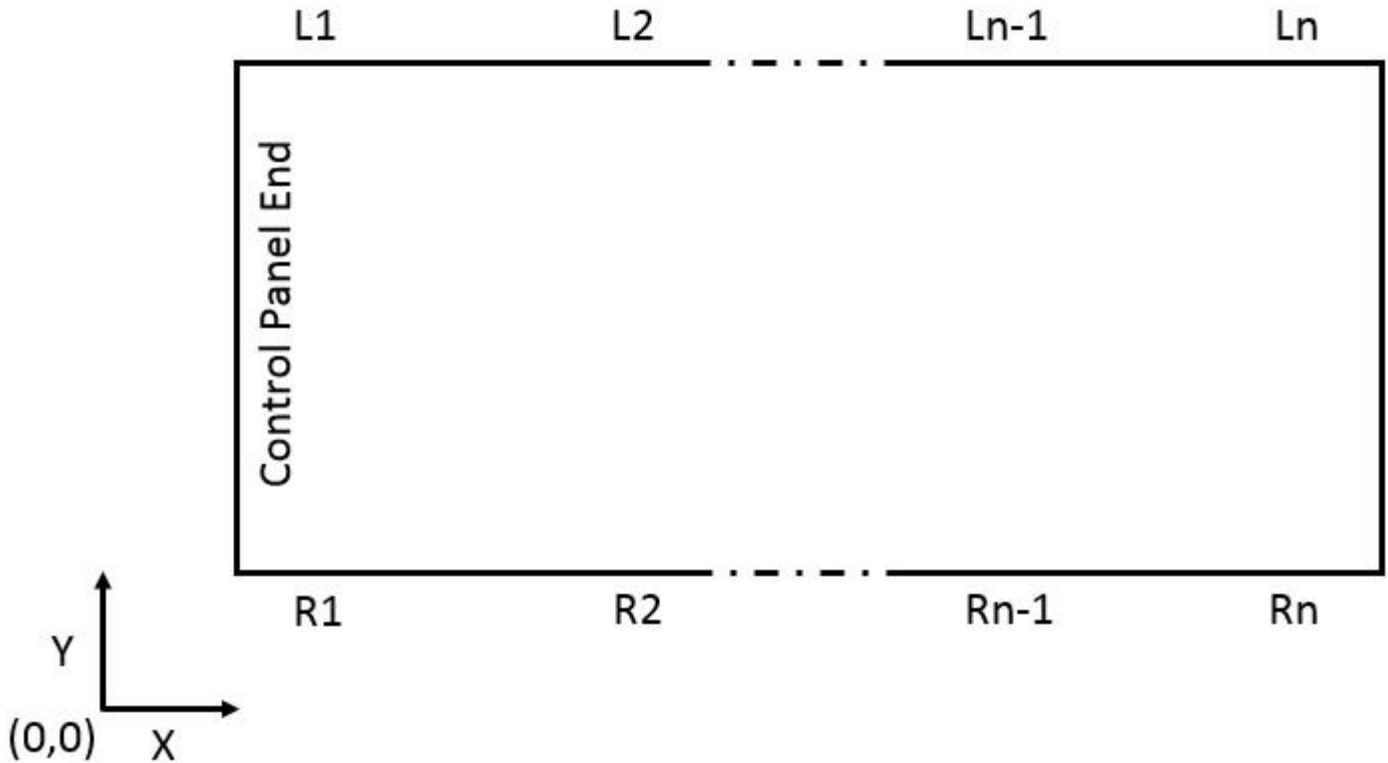
YLAA Air Cooled Scroll Chillers

Page 1 of 1

AVM Report

Project Name: **Stock Scrolls for Ordering Stock 4-22-25**Unit Tag:
YLAA0082HJ46VSDQty.: **1**Model No.: **YLAA0082HJ46XF**

PIN								
YLAA0082HJ	46XFBCTXA	SXBLXCXX44	SE1XXXHXXX	YUXGXXX3XX	XVGNXXXXXX			
....5...10	5...20	5...30	5...40	5...50	5...60	5...70	5...80	5...90



AVM Data						
LOCATION	X Distance [in]	Y Distance [in]	JCI PART NUMBER	SAP NUMBER	COLOUR	Operating Weights [lb]
R1	13.1	1.4	029-25335-002	434004	Red	1051
R2	87.3	1.4	029-25335-002	434004	Red	875
L1	13.1	86.9	029-25335-002	434004	Red	1379
L2	87.3	86.9	029-25335-002	434004	Red	1312

Weight Data			
Total Weight [lb]		Centre of Gravity [in]	
Shipping Weight [lb]	4532.0	Xg [in]	48.2
Operating Weights [lb]	4617	Yg [in]	51.2



Internal Pricing Report

Page 2 of 2

Project Name: **Stock Scrolls for Ordering Stock 4-22-25**

Unit Tag:
YLAA0082HJ46VSD

Qty: **1**

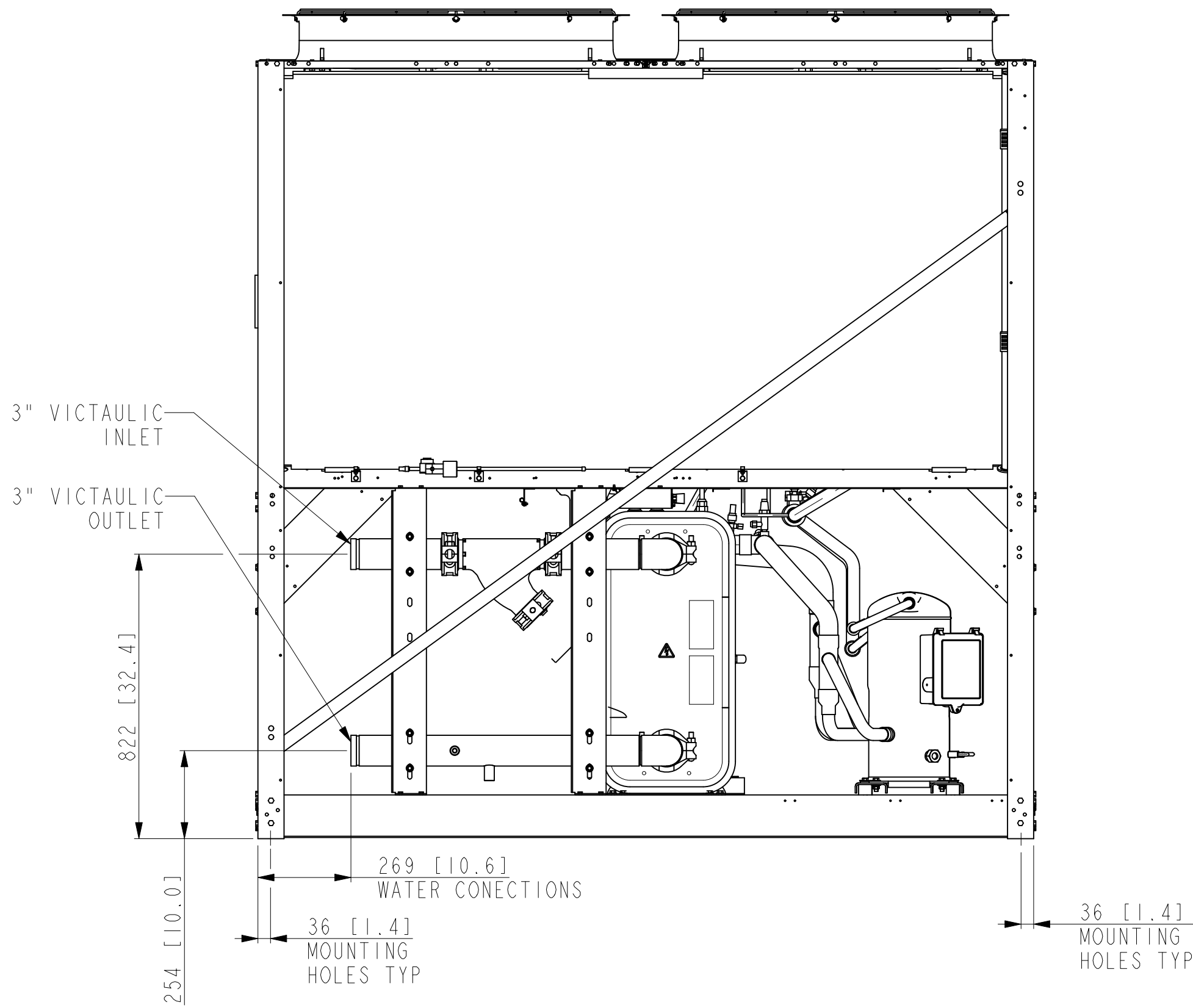
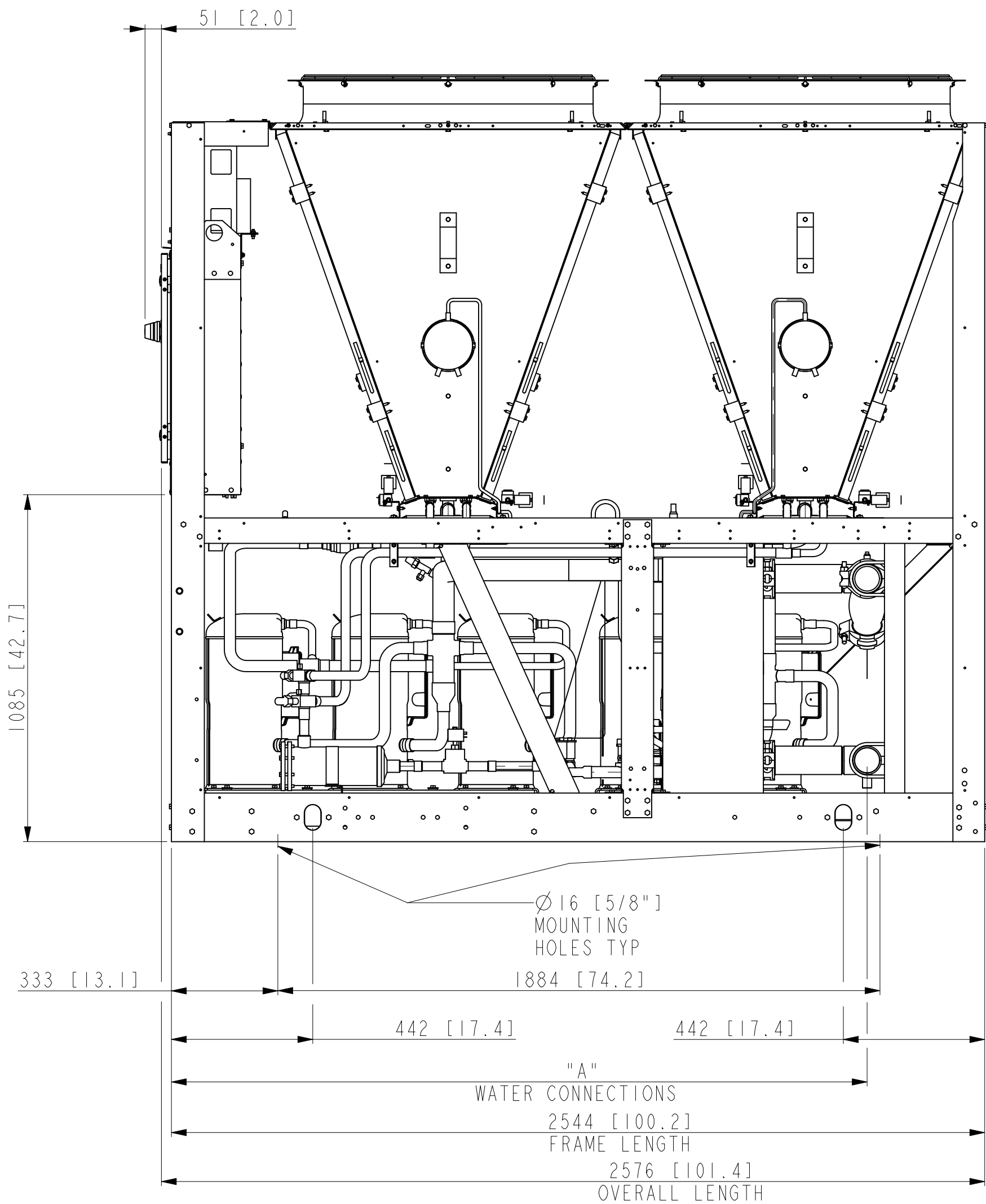
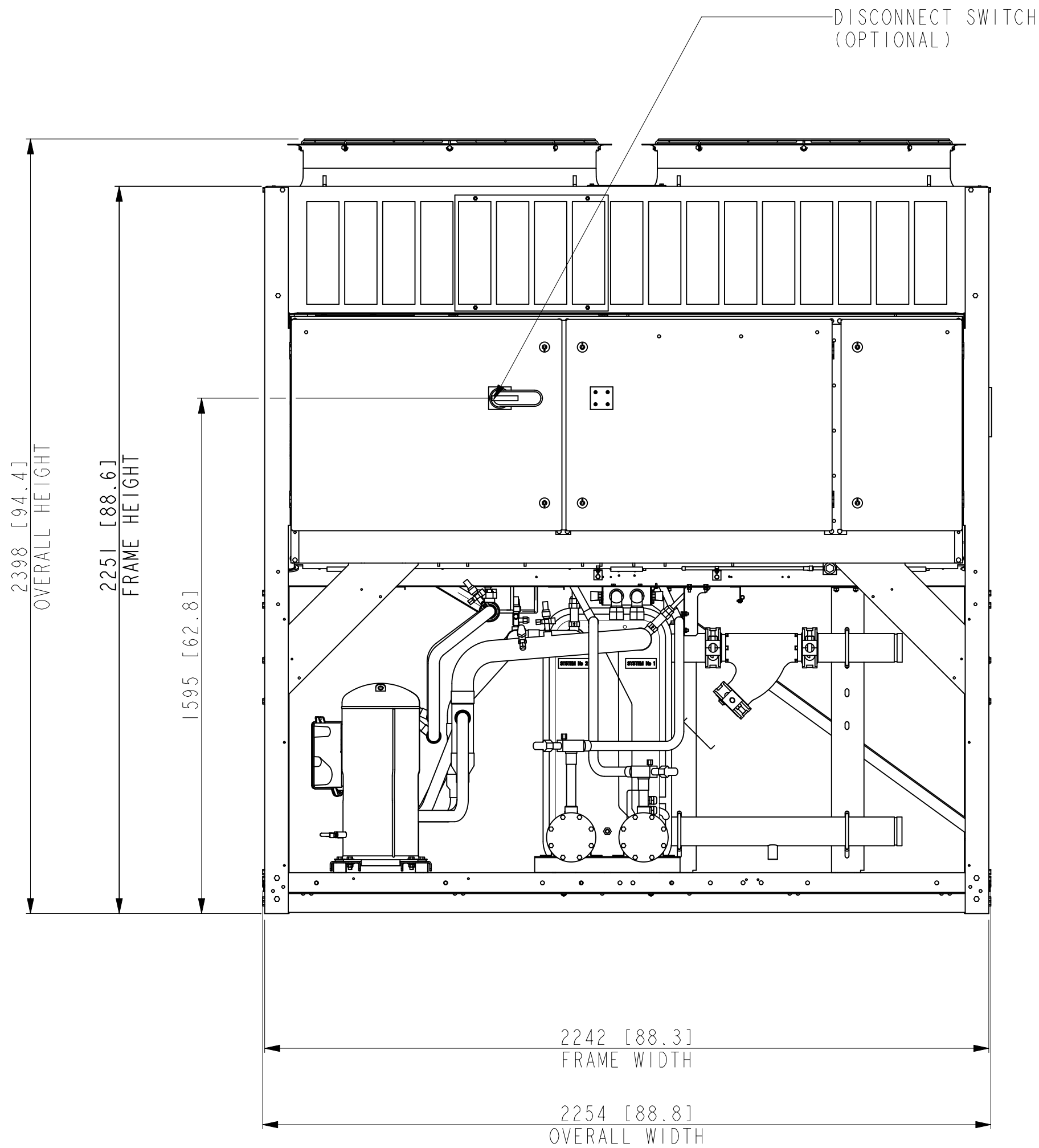
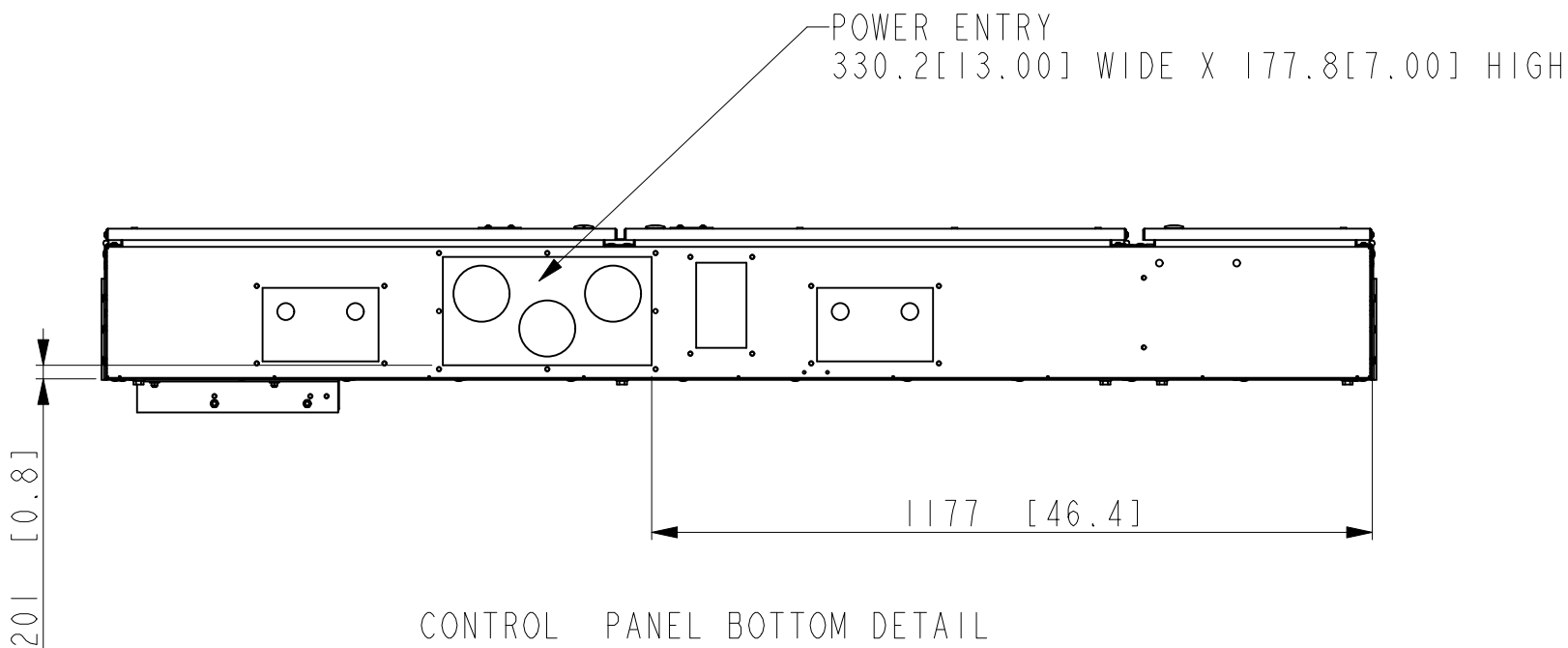
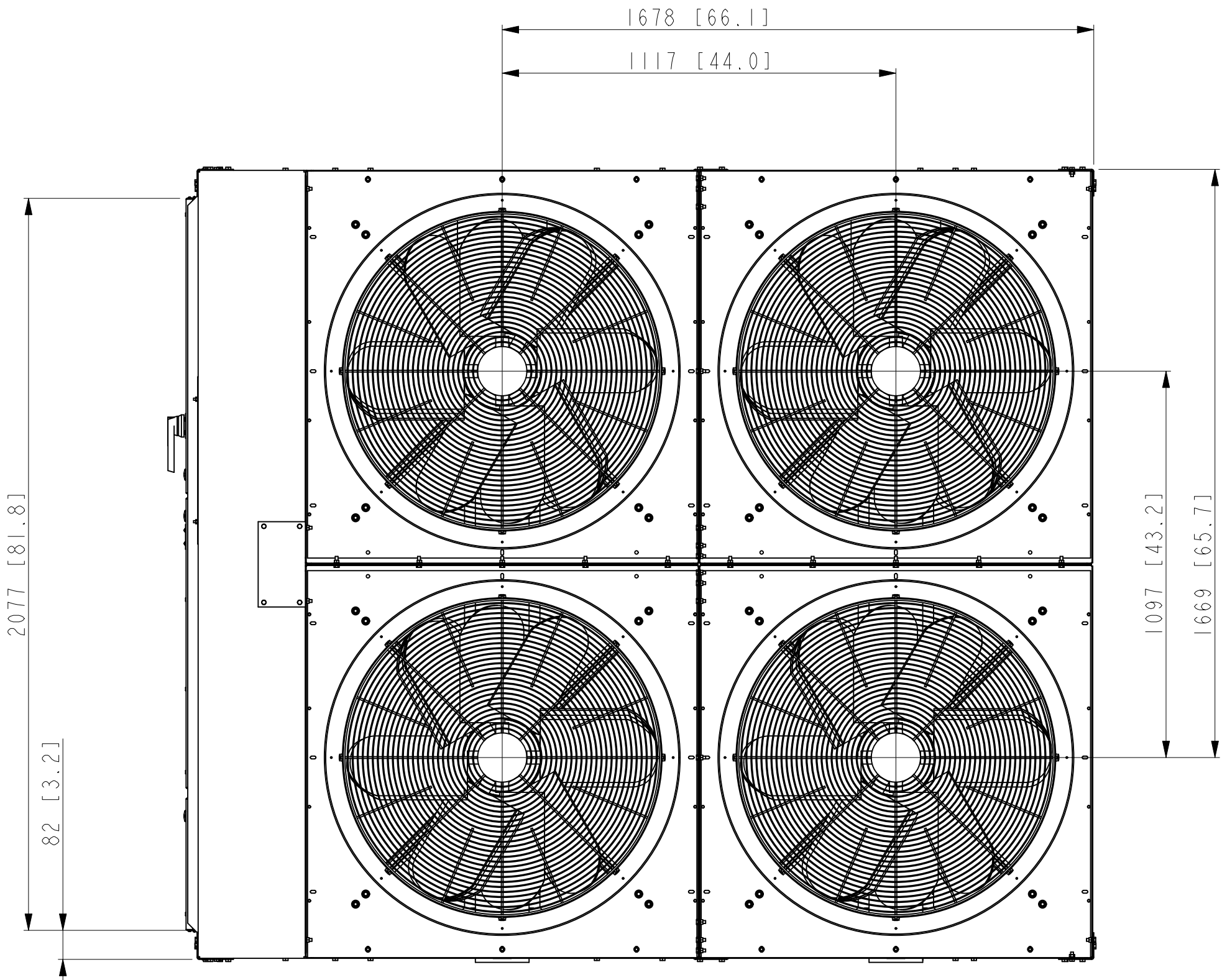
Model: **YLAA0082HJ46XF**

Line #	Equipment Description
01A	Base Unit/Access. (2949)
	Base Unit - YLAA0082HJ
	High Efficiency
	R454B Refrigerant
	Voltage Code - 460/3/60
	Across the line starter
	SP Circuit Breaker w/ Lockable Handle, 65kA SCWR
	Control Transformer Required
	Both Low/High Ambient Kit
	Connected Services Ready - SC-Equip Board
	Display Language - English
	North American Safety Code (cUL/cETL)
	Service Isolation Valves
	Electronic Expansion Valves
	Hot Gas Bypass required - 1 circuit
	Extension Kit
	Dispersion Switch
	UL Approved Heat Exchanger
	Aluminum MCHX Coils
	No Heat Recovery
	Wire/Louvered Encl Panels (factory)
	No Acoustic Blanket required
	Low Sound Fans with VSD
	Neoprene Isolators
	No Pump required

NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOUT. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.

- 1.1. RECOMMENDED MINIMUM CLEARANCES:
1.1.1. SIDE TO WALL - 1828.8mm[6’]
1.1.2. REAR TO WALL - 1828.8mm[6’]
1.1.3. CONTROL PANEL TO WALL - 1219.2mm[4’]
1.1.4. TOP - NO OBSTRUCTIONS ALLOWED.
1.1.5. DISTANCE BETWEEN ADJACENT UNITS - 3048mm[10’]
1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVM REPORT.
3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
4.1. REFER TO YORKworks REPORTS.

MODEL NUMBER	DIMENSION "A"
YLAA 0058 HE, HJ	2180 [85.8]
YLAA 0065 HE, HJ	2180 [85.8]
YLAA 0081 HE, HJ	2291 [90.2]
YLAA 0082 HE, HJ	2291 [90.2]



THIS DRAWING PERTAINS TO THE FOLLOWING MODELS:		
YLAA 0058 HE	YLAA 0058 HJ	
YLAA 0065 HE	YLAA 0065 HJ	
YLAA 0081 HE	YLAA 0081 HJ	
YLAA 0082 HE	YLAA 0082 HJ	

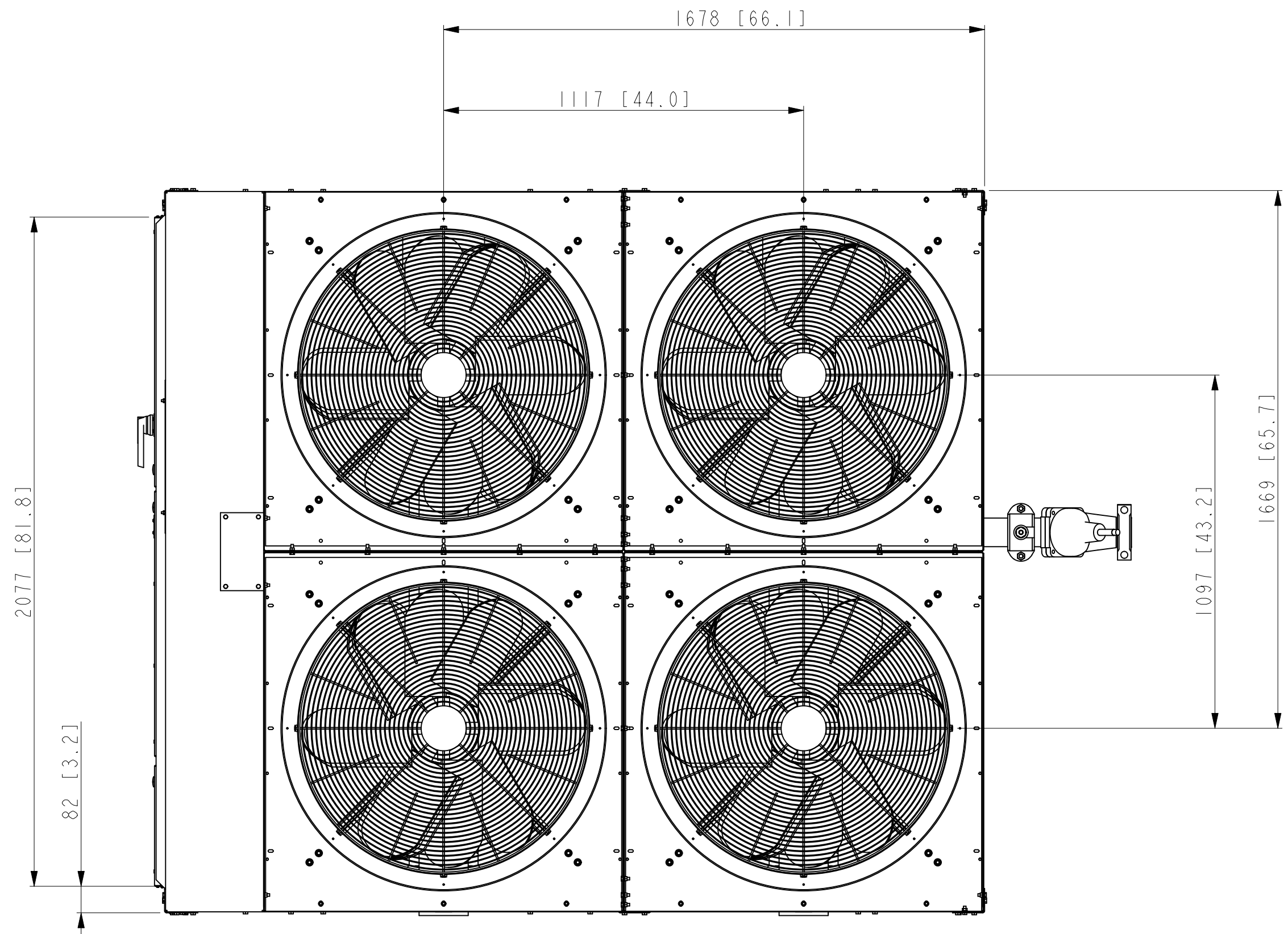
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UPDATE TABLES TO INCLUDE "HJ" MODELS					
CONTINUED					

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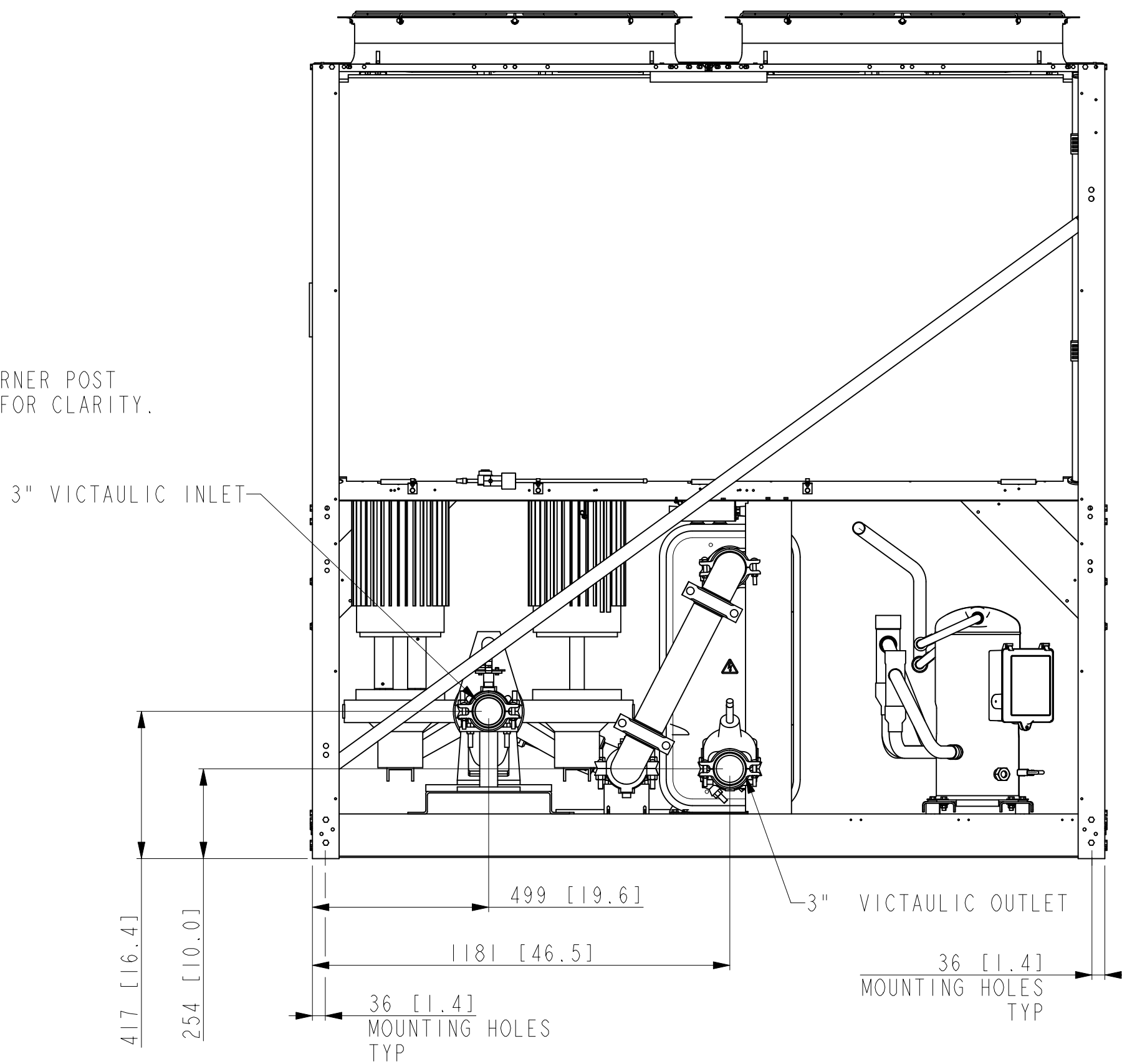
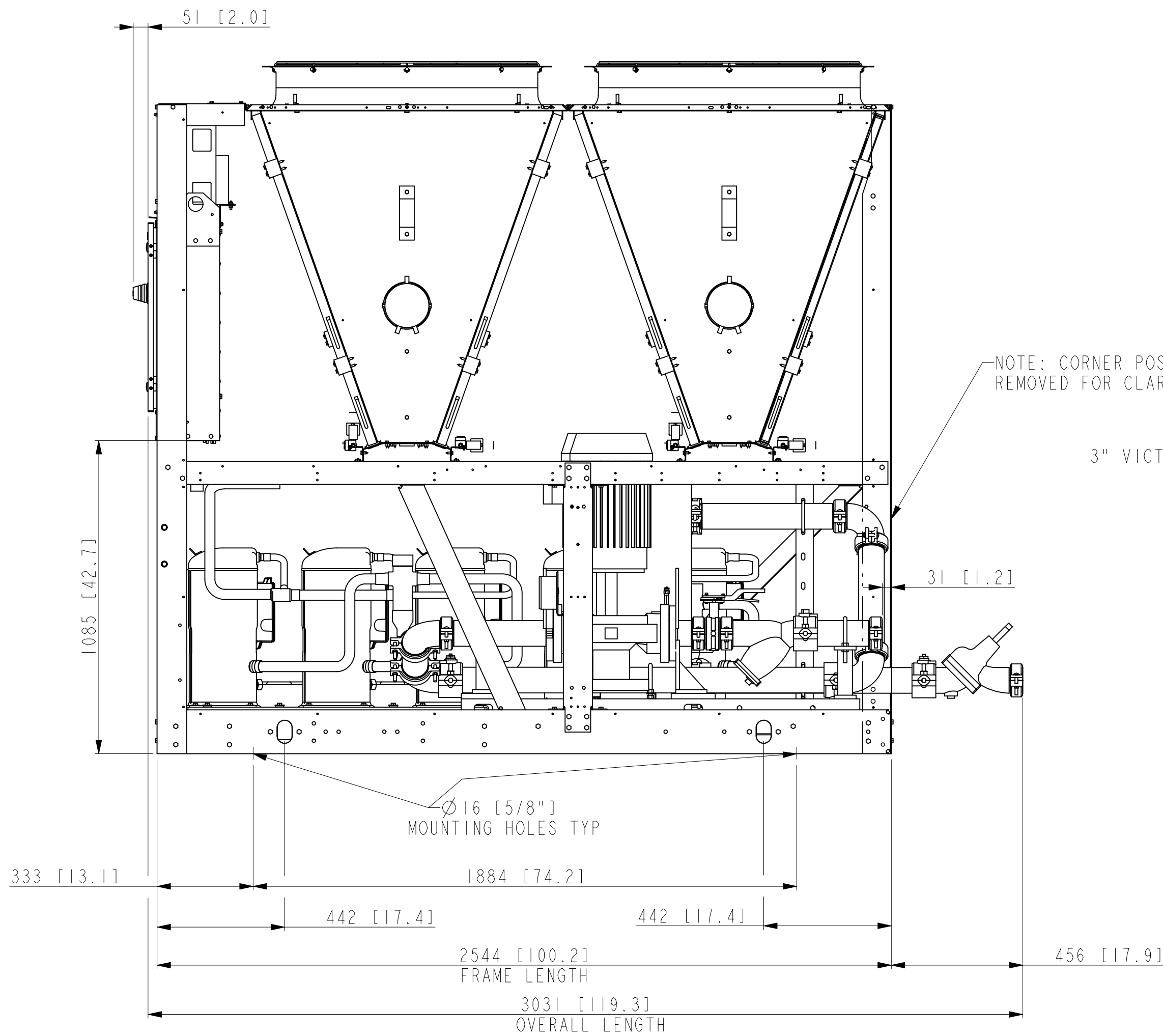
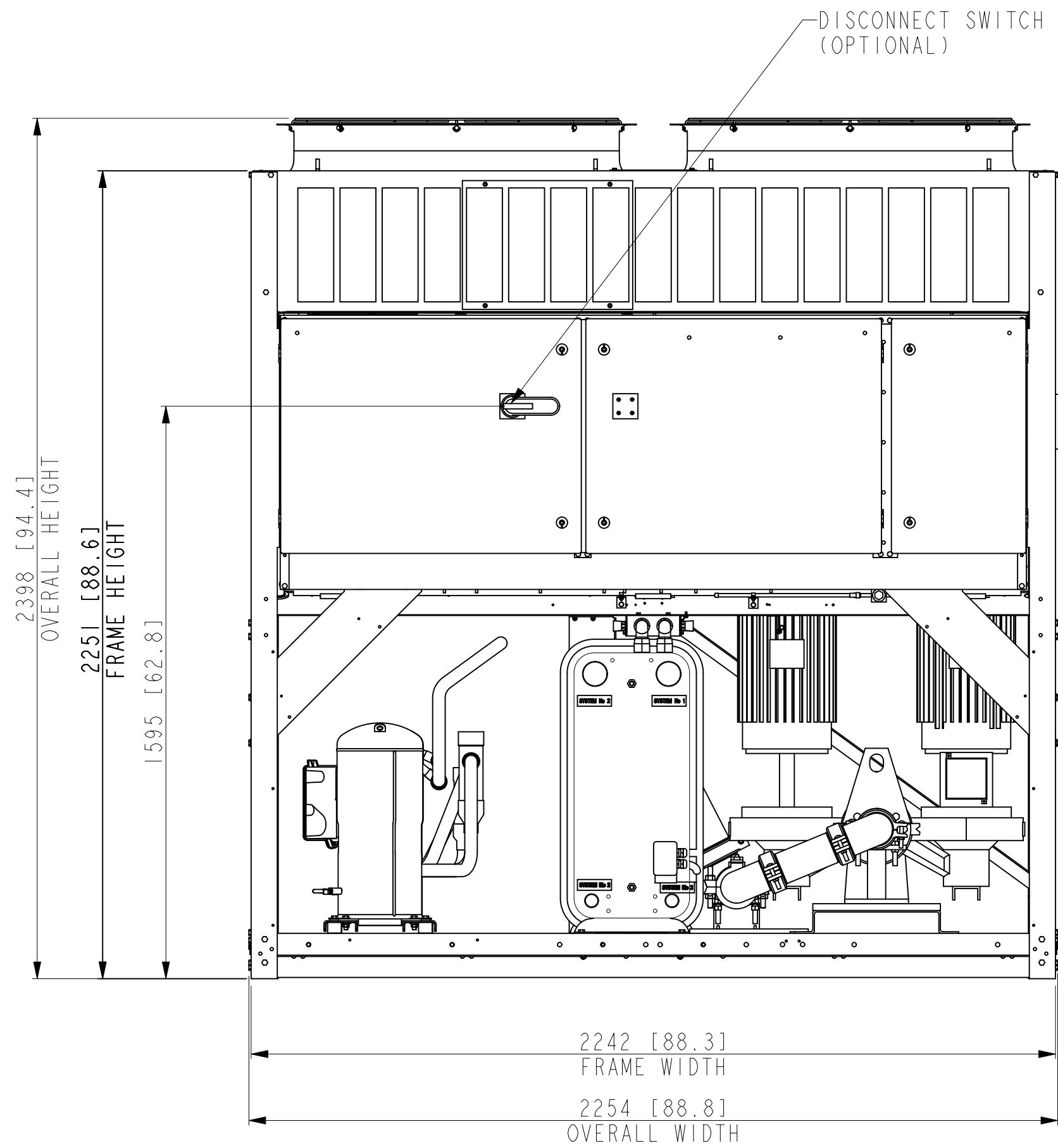
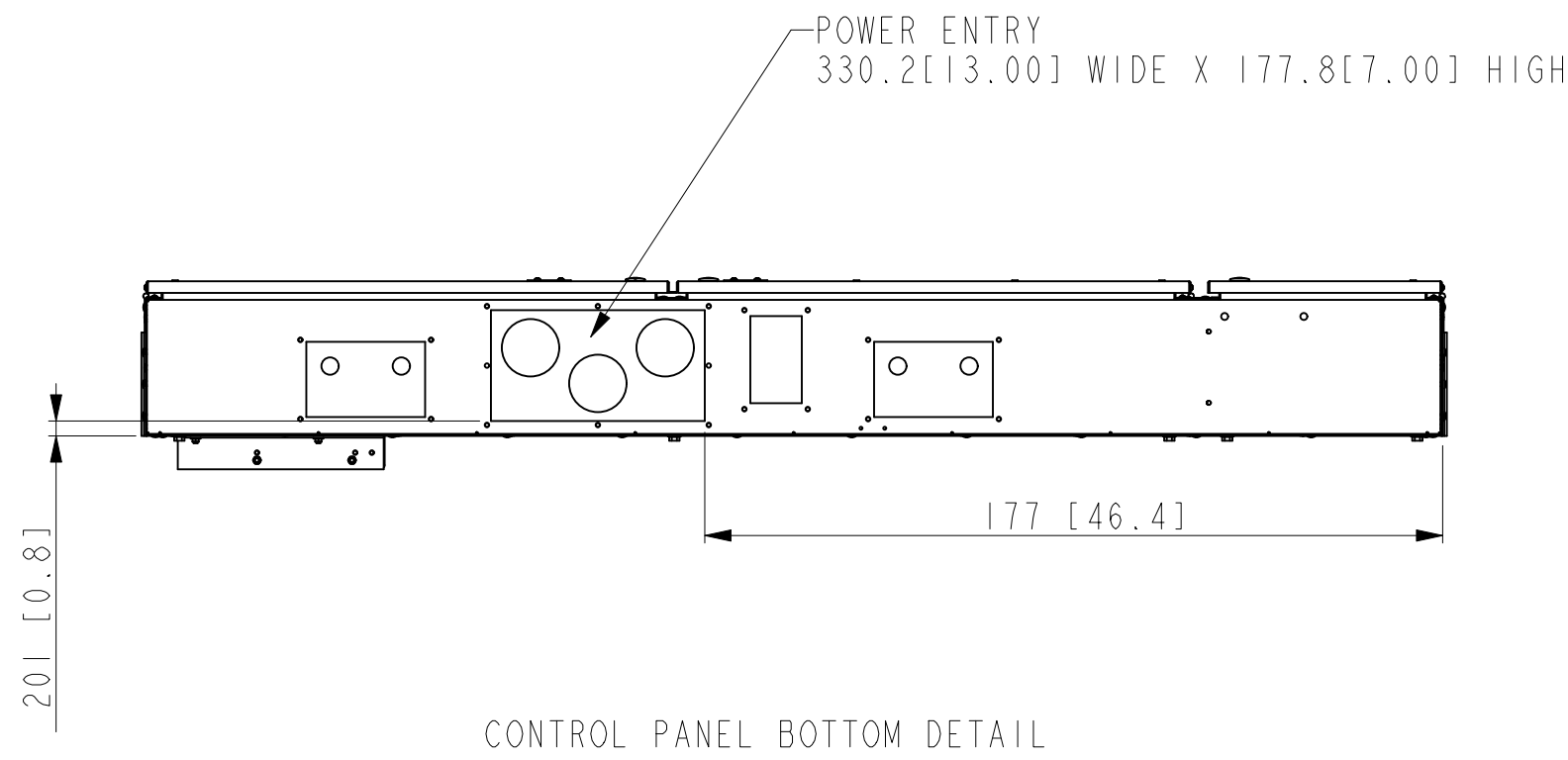
THIRD ANGLE		DO NOT SCALE		JOHNSON CONTROLS		JOHNSON CONTROLS - BUILDING EFFICIENCY		507 EAST MICHIGAN STREET, MILWAUKEE, WI, 53202 USA	
DRAWN M. LUPTON		05-DEC-2013		MODELER M. LUPTON		05-DEC-2013		MATERIAL N/A	
CHKD A. SATCH		05-DEC-2013		ENG		SCALE: 0.075		CAGE NUMBER 66935	
REV. H		VERSION 2		DRAWING NUMBER 035-24059-001		SHEET 1 OF 2		Eng Chg	

- NOTES:
1. PLACEMENT ON A LEVEL SURFACE FREE OF OBSTRUCTIONS (INCLUDING SNOW, FOR WINTER OPERATION) OR AIR RE-CIRCULATION ENSURES RATED PERFORMANCE, RELIABLE OPERATION AND EASE OF MAINTENANCE. SITE RESTRICTIONS MAY COMPROMISE MINIMUM CLEARANCES INDICATED BELOW, RESULTING IN UNPREDICTABLE AIR FLOW PATTERNS AND POSSIBLE DIMINISHED PERFORMANCE. JOHNSON CONTROLS UNIT CONTROLS WILL OPTIMIZE OPERATION WITHOUT NUISANCE HIGH PRESSURE SAFETY CUTOFF. HOWEVER, THE SYSTEM DESIGNER MUST CONSIDER POTENTIAL PERFORMANCE DEGRADATION.

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1.1.6. NO MORE THAN ONE ADJACENT WALL MAY BE HIGHER THAN UNIT.
 2. WEIGHT AND CENTER OF GRAVITY - REFER TO AVM REPORT.
 3. INSTALLING CONTRACTOR MUST INCLUDE VENT AND DRAIN ACCOMMODATIONS IN CHILLED WATER PIPING NEAR THE EVAPORATOR.
 4. NUMBER OF COMPRESSORS MAY VARY FROM DRAWING.
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UNIT WITH OPTIONAL PUMP KIT



THIS DRAWING PERTAINS TO THE FOLLOWING MODELS:		
YLAA 0058 HE	YLAA 0058 HJ	
YLAA 0065 HE	YLAA 0065 HJ	
YLAA 0081 HE	YLAA 0081 HJ	
YLAA 0082 HE	YLAA 0082 HJ	

REV.	DATE	EC. NO.	DR.	CHK.	ENG.
H	05-MAY-2023	ECN23-0279	RWA	DBN	AR
UPDATE TABLES TO INCLUDE "HJ" MODELS					
CONTINUED					

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			JOHNSON CONTROLS - BUILDING EFFICIENCY			
THIRD ANGLE			507 EAST MICHIGAN STREET, MILWAUKEE, WI, 53202 USA			
DO NOT SCALE			YLAA 4-FAN 60HZ UNITS		MATERIAL N/A ENG. STD. N/A PART NO.	
DRAWN M. LUPTON		05-DEC-2013		A1	CAGE NUMBER 66935	DRAWING NUMBER 035-24059-001
MODELER M. LUPTON		05-DEC-2013				
CHKD A. SAYCH		05-DEC-2013				
ENG						
SCALE: 0.075		MASS (kg): 0.000		ORIG. NO.:		SHEET 2 OF 2
						Eng Chg