



No.	1	Panning Commission Re-submittal PER DRC/ Planning Commission Comments	062824 062424	Date	

LANDSCAPE PLAN
FOR
COMPASS SELF STORAGE
20 Cane Dr. Bluffton, SC



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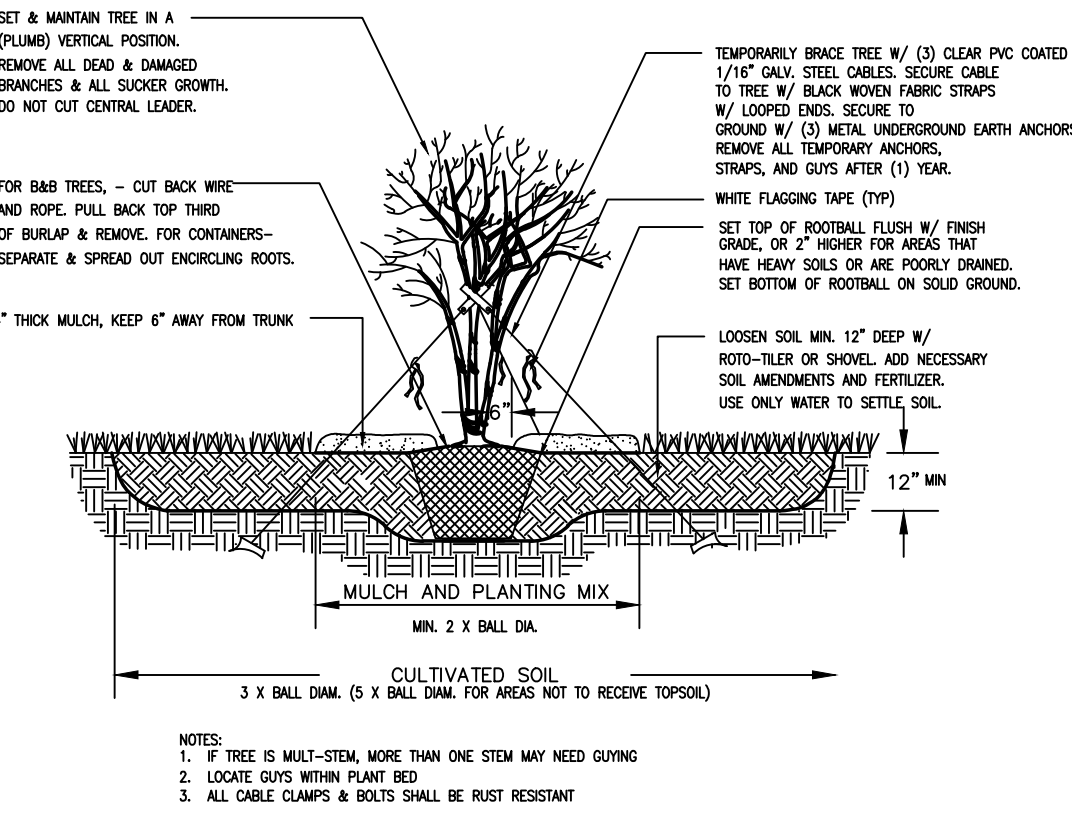
Drawn By:	M. Brock
Drawn Date:	05.29.24
Chk'd By:	M. Brock
Project ID:	C-24038

Landscape Plan
Sheet No.

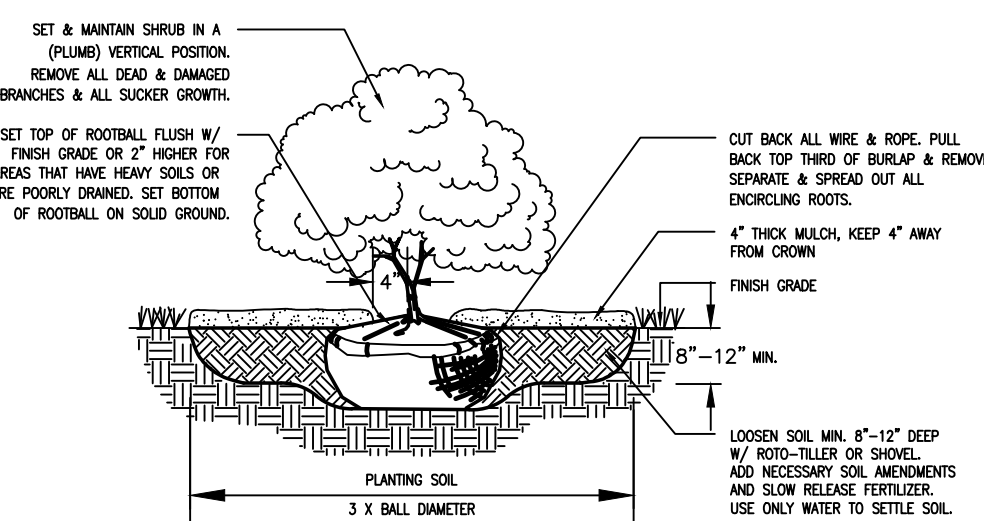
LS-101

SHEET 1 OF 2

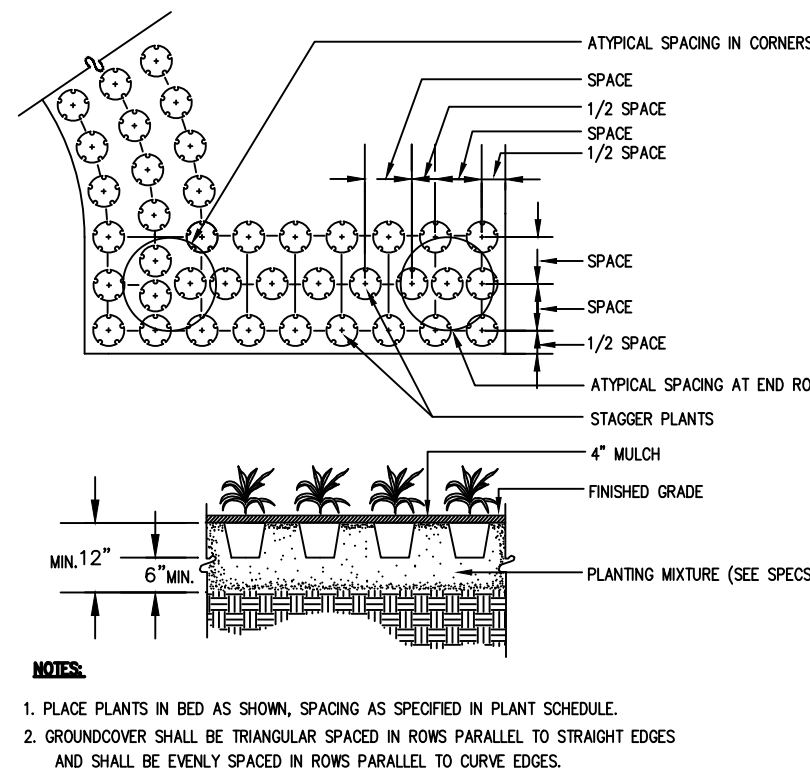
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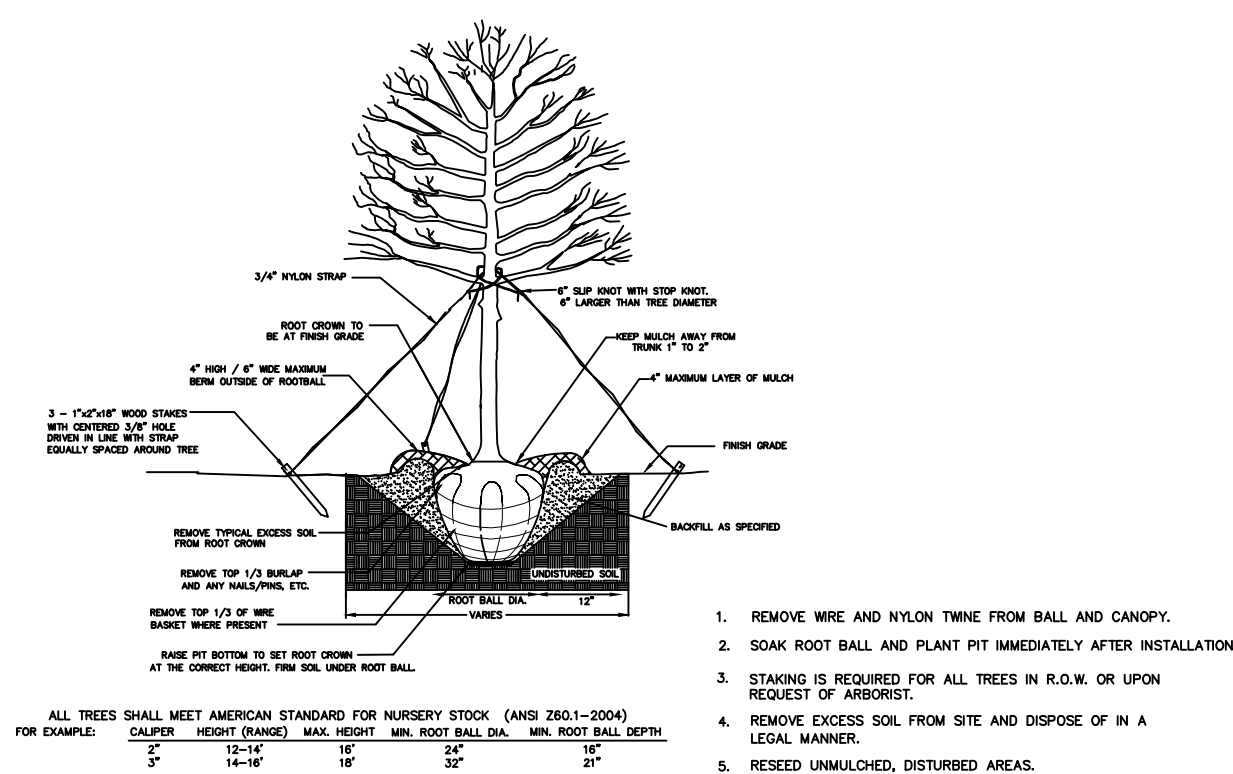
1/LS102 MULTI-TRUNK TREE PLANTING DETAIL
N.T.S.



2 / LS102 / SHRUB PLANTING DETAIL
N.T.S.

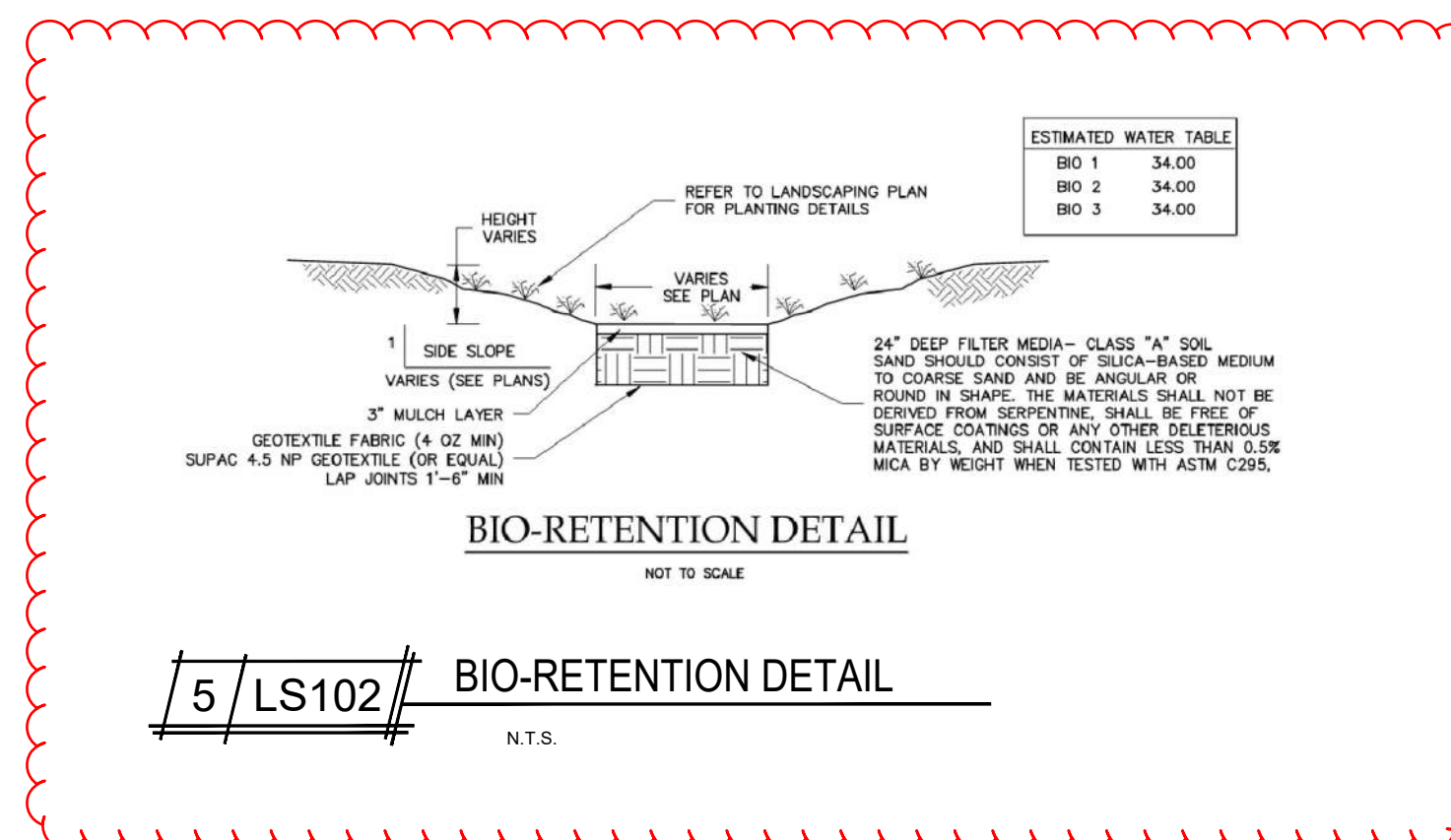


3/ LS102/ GROUNDCOVER PLANTING DETAIL



4 / LS102 // TREE INSTALLATION DETAIL

Disposition	Landscaping Required	Landscaping Provided
<u>General Site Landscaping:</u>	20% Min.	+43.88%
<u>Landscaping Adjacent to Roads:</u>	n/a	Replacement Trees @ 30' O.C.
<u>Replacement Trees</u> - R	- Trees Required	- Replacement Trees Provided
<u>Greenbelt Requirements:</u>	n/a	n/a
<u>Screening Requirements:</u>	Vehicle Screening From Roads	Provided
<u>Parking Lot Requirements:</u>	1 Tree / Island	6 Trees Provided



5 / LS102 / BIO-RETENTION DETAIL

LANDSCAPE NOTES

PLANTING:

1. MATERIAL LIST WAS PREPARED FOR ESTIMATING PURPOSES. CONTRACTOR SHALL MAKE OWN QUANTITY TAKE-OFF USING DRAWINGS AND SPECIFICATION, REPORTING PROMPTLY ANY DISCREPANCIES WHICH MAY EFFECT BIDDING.
2. ROOT TYPES MAY BE FREELY SUBSTITUTED IN CASE OF BALLED AND BURLAPPED OR CONTAINER GROWN, ALL OTHER SPECIFICATIONS TO REMAIN UNCHAINED.
3. CONTRACTOR TO VERIFY THAT ALL PLANT MATERIALS ARE AVAILABLE AS SPECIFIED WHEN PROPOSAL IS SUBMITTED.
4. SEE TREE, SHRUB, AND GROUND COVER PLANTING DETAILS AND SPECIAL PROVISIONS FOR PLANTING SPECIFICATIONS.
5. SOIL DEPTH TO BE VERIFIED BY CONTRACTOR AS INDICATED BY SOIL TEST TO ACHIEVE PROPER SOIL CONDITION.
6. CONTRACTOR SHALL STAKE OUT ALL SHRUB BED LINES, TREE LOCATIONS, AND SHRUB GROUPINGS FOR APPROVAL BY OWNER'S REPRESENTATIVE BEFORE BEGINNING PLANTING OPERATIONS.
7. ALL PLANT BEDS TO RECEIVE 3" DEEP BROWN COLORED HARDWOOD MULCH.
8. CONTRACTOR TO MAINTAIN THE PLANTINGS AND CONTROL WEEDS IN MULCH AREAS THROUGH THE DURATION OF CONSTRUCTION UNTIL FINAL ACCEPTANCE.
9. ALL PLANT BEDS AND AREAS TO RECEIVE 100% IRRIGATION COVERAGE.
10. IN THE PLANT SCHEDULE, PLANTS NOTED AS "SPECIMEN" SHALL BE SELECTED BY THE OWNER'S REPRESENTATIVE AT THE NURSERY OR PHOTOS OF THE PLANTING STOCK SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR APPROVAL.
11. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO PLANTING AREAS PRIOR TO LANDSCAPE INSTALLATION AND ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
12. PLANT BE SHALL BE TESTED FOR PH AND AMENDED PRIOR TO INSTALLATION.
13. CONTRACTOR TO VERIFY UTILITY LOCATIONS BY REQUESTING "NO CUTS" 72 HOURS BEFORE INSTALLATION.

IRRIGATION:

1. THE IRRIGATION SYSTEM WILL CONFORM TO THE FOLLOWING STANDARDS:
 - 1. PROVIDE 100% COVERAGE OF PLANT BEDS, GRASS AREAS AND BUFFERS. IRRIGATION SYSTEM TO MEET ALL LOCAL AND NATIONAL PLUMBING AND ELECTRICAL CODES.
2. PROVIDE ELECTRIC AUTOMATIC TIMER CONTROL. COORDINATE LOCATION OF CONTROLLER WITH OWNER.
3. PROVIDE BEAUFORT COUNTY APPROVED RPZ PER B.W.S.A SPECIFICATIONS AND 1 1/2" METER SERVICE FOR IRRIGATION SYSTEM.
4. INCORPORATE ZONES THAT SEPARATE GRASS AREAS FROM PLANT BEDS.
5. AVOID SPRAYING ROADS, PARKING AND WALKS.
 - 6. GUTS SWING-JOINTS AND/OR FLEX-INSERS ON ALL HEADS NEXT TO ROADS, PARKING AND WALKS.
7. CONTRACTOR WILL PROVIDE 3 SETS OF AS-BUILT IRRIGATION DRAWINGS AFTER CONSTRUCTION IS COMPLETE AND APPROVED BY THE OWNER.
8. CONTRACTOR TO COORDINATE WITH GC AND OWNER, PRIOR TO HARDSCAPE MATERIAL INSTALLATION, INSTALLING CONDUIT FOR IRRIGATION.

DRAINAGE:

SEE GRADE AND DRAINAGE PLAN FOR PROPOSED SITE DRAINAGE

GUARANTEE:

GUARANTEE:
THE CONTRACTOR SHALL GUARANTEE ALL WORKMANSHIP AND PLANT MATERIAL TO BE FREE OF DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM FINAL ACCEPTANCE OF THE PROJECT. CONTRACTOR SHALL REPLACE ANY PLANT MATERIAL FOUND TO BE DEFECTIVE WITHIN THE PERIOD OF GUARANTEE AT NO COST TO THE OWNER, EXCEPT REPAIRS OR REPLACEMENT NECESSITATED BY DAMAGE BY OTHERS OR DIEBACK DUE TO INSUFFICIENT IRRIGATION/WATERING SCHEDULE.

SIGN NOTES:

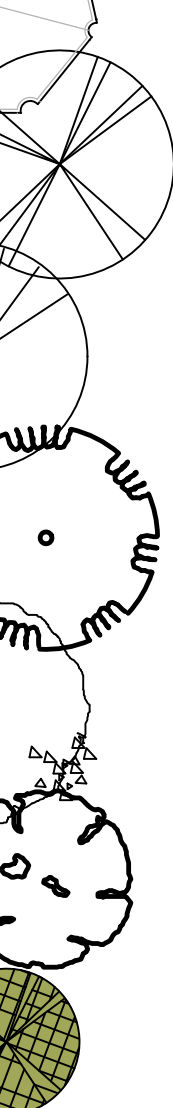
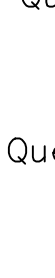
MONUMENT SIGN- BY OTHERS
1 PERMITTED PER FRONTAGE JONES
ESTATE PUD-64SF/ 8'HEIGHT
WALL SIGN- BY OTHERS
2 PER ESTABLISHMENT 40 SF MAX.

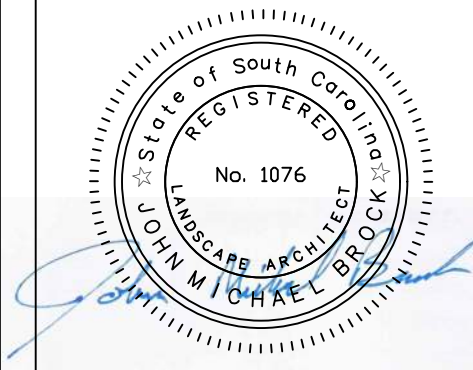
REPLACEMENT TREE SCHEDULE:

TREE COUNTS	COUNT	TREES REMOVED	REPLACEMENT TREES REQUIRED
EXISTING	166		
TO BE REMOVED	113	SIGNIFICANT TREES $\geq 24"$ = 5	25 TREES
		TREES $18" < 24"$ = 20	60 TREES
		TREES $12" < 18"$ = 44	88 TREES
		TREES $8" < 12"$ = 40	40 TREES
TO REMAIN	53		TOTAL= 213

REPLACEMENT TREES PROVIDED:

213 REPLACEMENT TREES REQUIRED
80 REPLACEMENT TREES PROVIDED FOR 160 REPLACEMENT TREE CREDITS
53 TREES REPLACEMENT TREES TO BE PAID TO THE TREE FUND. (213 REQUIRED- 160 PROVIDED)
ANTICIPATED COST TO BE DETERMINED.

Trees		QTY	Common/ Botanical Name	Cont.	Height/Spread
	12	Cabbage Palm/ Sabal palmetto (Slick Face)	–	Bare Root	14'
	13	Live Oak/ Quercus virginiana	4" Cal.	B&B	12'
	15	Pin Oak/ Quercus palustris	4" Cal.	B&B	12'
	14	Scarlet Oak/ Quercus coccinea	4" Cal.	B&B	12'
	11	White Oak/ Quercus alba	4" Cal.	B&B	12'
	16	Nuttall Oak/ Quercus texana	4" Cal.	B&B	12'
	12	Willow Oak/ Quercus phellos	4" Cal.	B&B	12'
	9	Sweetbay Magnolia/ Magnolia virginiana	2.5" Cal.	B&B	8–10'
Shrubs		QTY	Common/ Botanical Name	Cont.	Height/Spread
	13	Common Gardenia/ Gardenia aufusta 'August Beauty'	7 gal.	48" O.C.	
	43	Gulf Muhly Grass Pink/ Muhlenbergia capillaris	1 gal.	2/2'	
	21	Rose Creek Abelia/ Abelia x 'Rose Creek'	3 gal.	42"/36"	
	28	Sandankwa Viburnum/ Viburnum suspensum	7 gal.	96" O.C.'	
	32	Small-Leaf Arrowwood/ Viburnum ovovatum 'Miss Shilers Delight'	3 gal.	48" O.C.	
	18	Sweet Viburnum/ Viburnum odortisimum	7 gal.	72" O.C.	
	10	Wax Myrtle/ Myrica cerifera	15 gal.	72" O.C.	
	11	Yew Pine/ Podocarpus macrophylla	7 gal.	48" O.C.	
Cycads/ Palms		QTY	Common/ Botanical Name	Cont.	Height/Spread
	44	Saw Palmetto/ Serenoa repens	3 gal.	3–4'	
Ground Covers/ Grasses		QTY	Common/ Botanical Name	Cont.	Height/Spread
	11	Society Garlic/ Tulbaghia violacea	1 gal.	15"–18"	
	18	African Iris/ Dietes 'Apostle Blue'	1 gal.	15"–18"	
	62	Golden Canna/ Canna flaccida	1 gal.	36"/24"	

[illegible]

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FOR
COMPASS SELF STORAGE
20 Cane Dr. Bluffton, SC



J. M. BROCK
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Drawn By: *M. Brock*

Drawn By:	M. Brooks
Drawn Date:	05.29.24

Chk'd By:	M. Brock
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Project ID:	C-24038
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Landscape Details

Sheet No.

Sheet No.

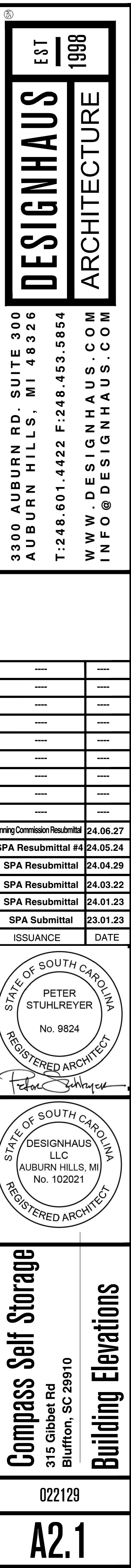
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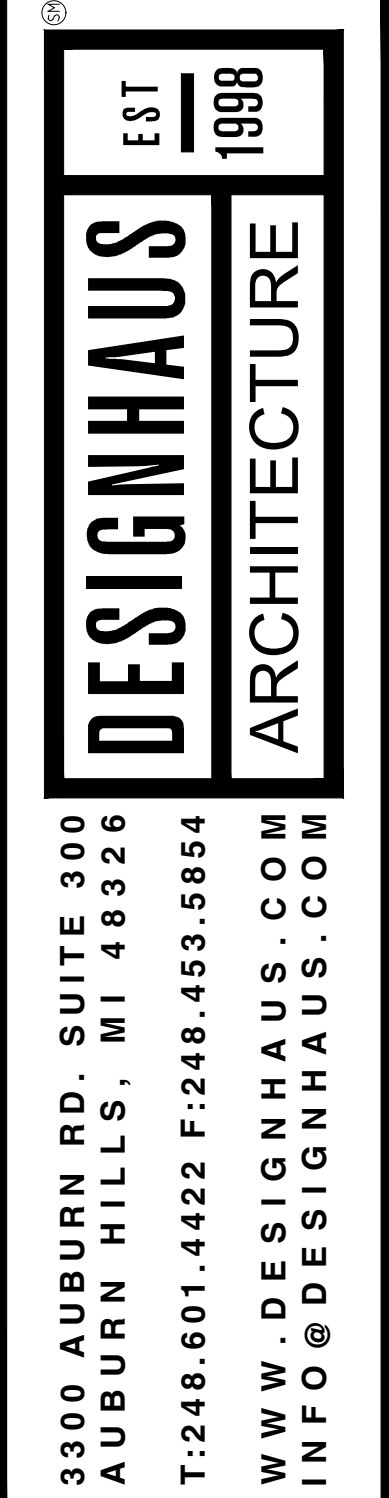
LS-102

100% 90% 80% 70% 60% 50% 40% 30% 20% 10% 0%

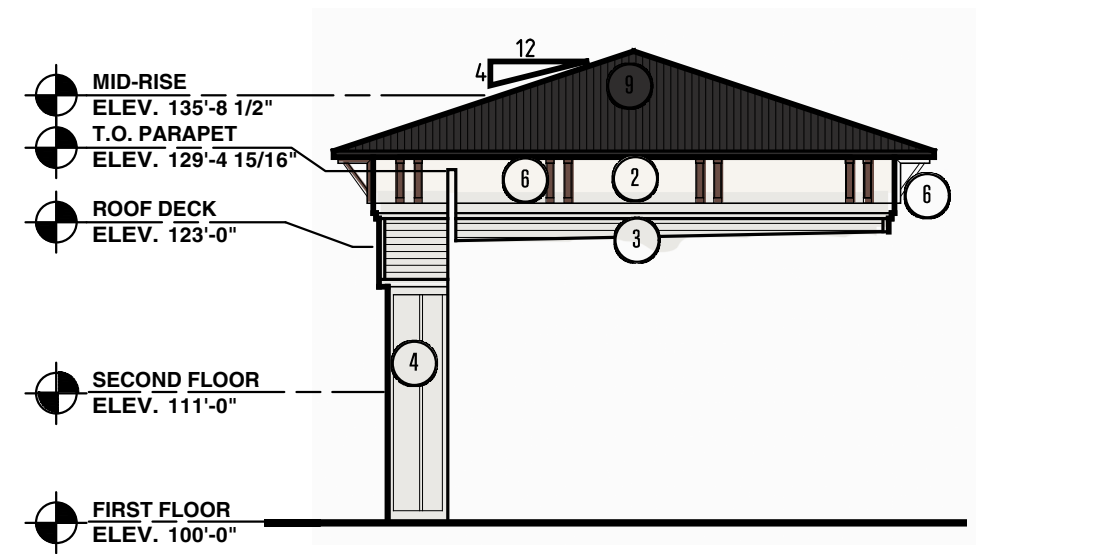
SHEET 2 OF 2

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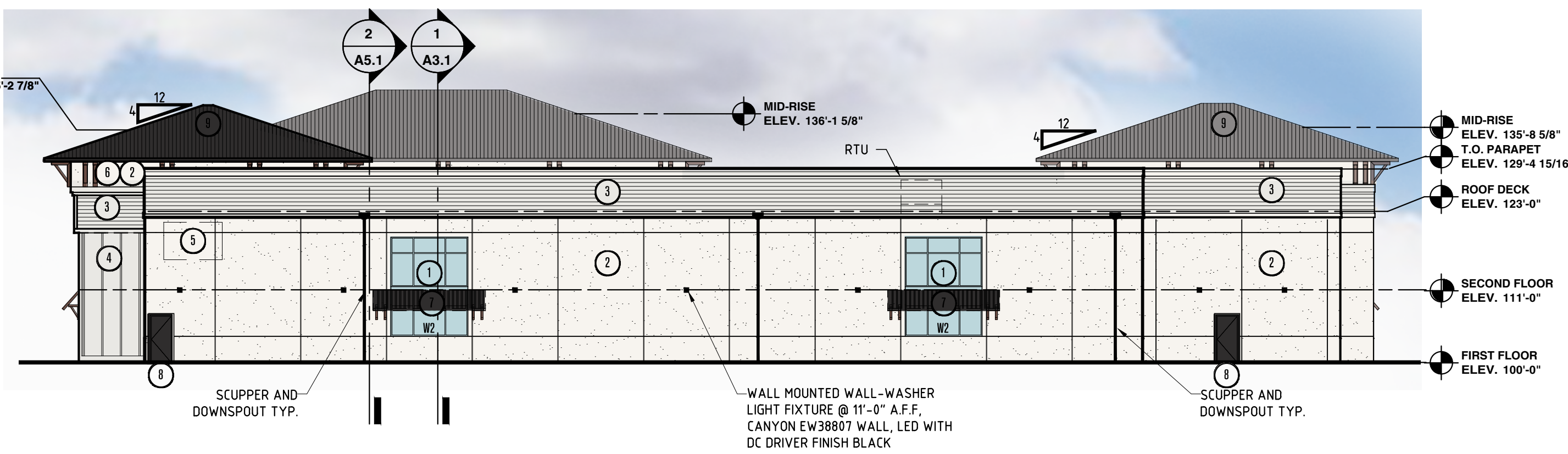




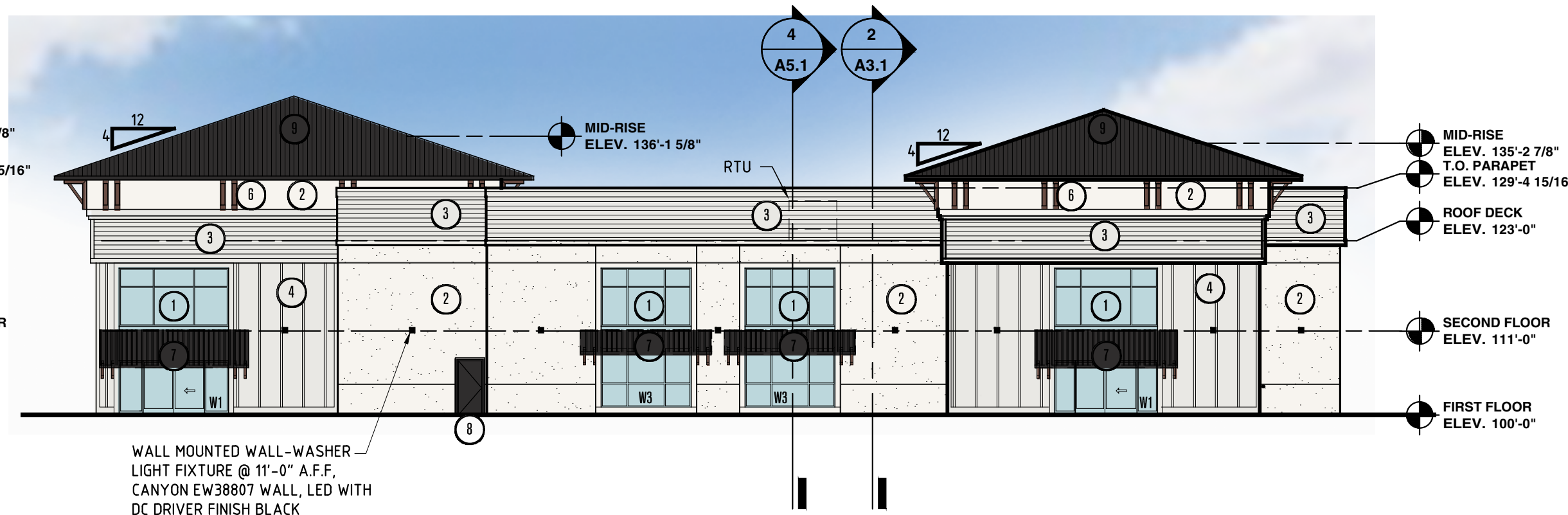
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Planning Commission Resubmittal		24.06.27
SPA Resubmittal #4		24.05.24
SPA Resubmittal		24.04.29
SPA Resubmittal		24.03.22
SPA Resubmittal		24.01.23
SPA Submittal		23.01.23
ISSUANCE		DATE



5 BUILDING B TOWER ELEVATION



3 BUILDING B EAST ELEVATION



1 BUILDING B SOUTH ELEVATION SCALE: 1/16"=1'

The seal is circular with "STATE OF SOUTH CAROLINA" at the top and "REGISTERED ARCHITECT" at the bottom. In the center, it reads "PETER STUHLREYER" and "No. 9824". Below the seal is a handwritten signature.

The seal is circular with "STATE OF SOUTH CAROLINA" at the top and "REGISTERED ARCHITECT" at the bottom. In the center, it reads "DESIGNHAUS LLC" and "AUBURN HILLS, MI" followed by "No. 102021".

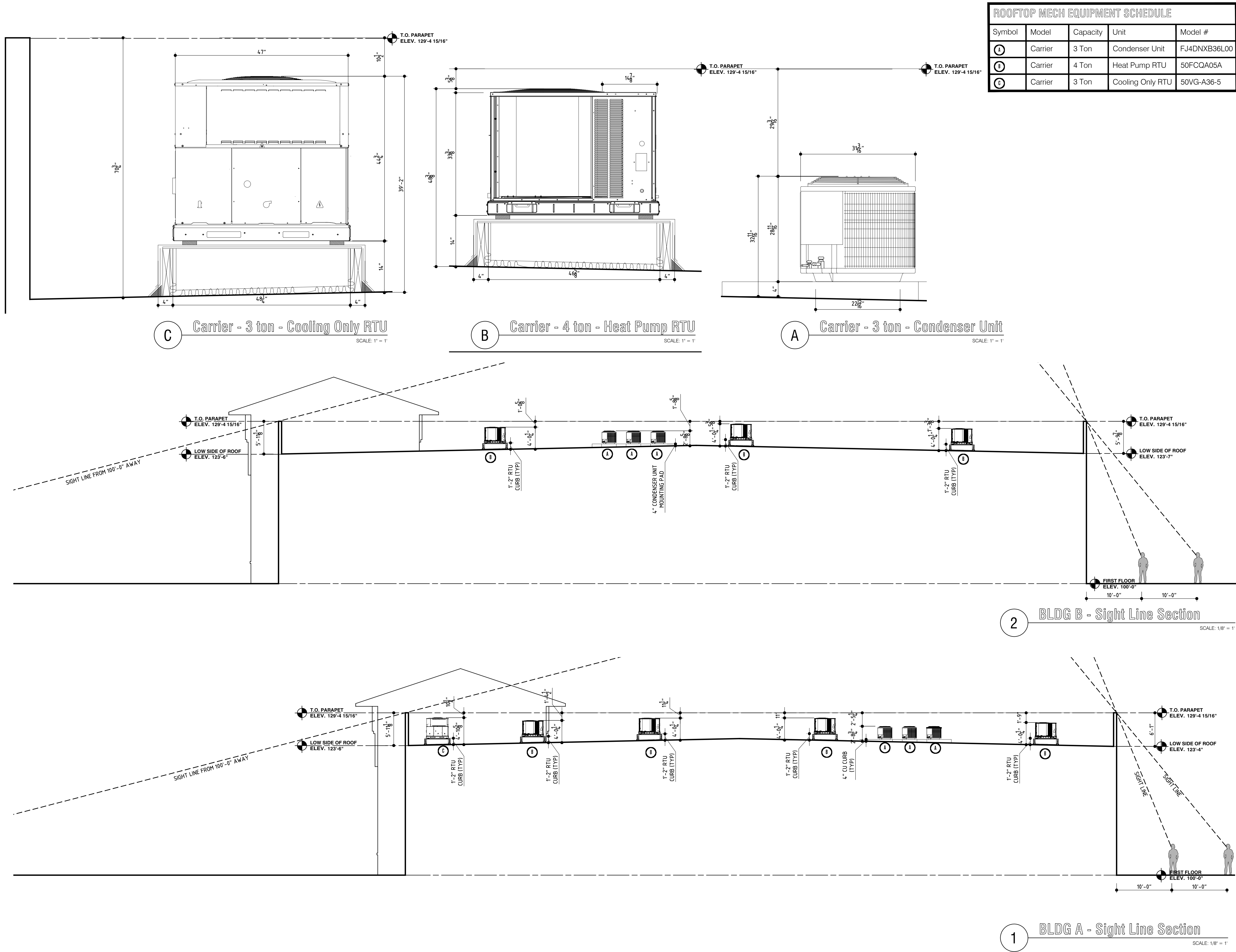
Compass Self Storage

20 Cane Dr
Bluffton, SC 29910

Building B Elevations

022129

A2.2



DESIGNHAUS
ARCHITECTURE

EST 1998

3300 AUBURN RD, SUITE 300
AUBURN HILLS, MI 48326
T:248.601.4422 F:248.453.5854
WWW.DESIGNHAUS.COM
INFO@DESIGNHAUS.COM

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Planning Commission Resubmittal	24.06.27
SPA Resubmittal #4	24.05.24
SPA Resubmittal	24.04.29
SPA Resubmittal	24.03.22
SPA Resubmittal	24.01.23
SPA Submittal	23.01.23
ISSUANCE	DATE

STATE OF SOUTH CAROLINA
PETER STUHLREYER
No. 9824
REGISTERED ARCHITECT

STATE OF SOUTH CAROLINA
DESIGNHAUS LLC
AUBURN HILLS, MI
No. 102021
REGISTERED ARCHITECT

Compass Self Storage
20 Cane Dr
Bluffton, SC 29910
Section - Sight Lines

022129
A2.3

ATTACHMENT 1 - RESUBMITTED PLANS



480.626.7072
ardebilieng.com

ARDEBILI ENGINEERING
8100 E Indian School
STE 205, Scottsdale AZ 85254

June 27th, 2024

Project #23420 & 23421
Compass Self Storage Building A & B
315 Gibbet Rd.
Bluffton, SC 29910

To whom it may concern:

This letter is to certify the mechanical design represented in the construction documents has followed industry standards utilizing ASHRAE/ACCA standard 183, 55, 62.1 and 90.1 for equipment sizing ensures thermal comfort, indoor air quality and energy efficiency for a storage to maintain a thermostat set point of 80 degrees Fahrenheit cooling and 65 degrees Fahrenheit heating as displayed in construction documents M0.1-M0.3.

The design also implemented design standards based on South Carolina Building, Mechanical Codes and relevant NFPA standards (90A and 90B) to guarantee safety and proper installation as displayed in construction documents M1.0-M2.0.

Mechanical equipment selection is compliant with Energy code standards and provided in the following sheets to demonstrate efficiency and unit dimensions.

Please let us know if you have any additional questions.

Kind Regards,

Ardebili Engineering

A handwritten signature in black ink, appearing to read 'Faisal E.', is positioned above a horizontal line.

FAISAL HALIS





Turn to the experts

Submittal Data

23420

Date: August 07, 2023

ATTACHMENT 1 - RESUBMITTED PLANS



Turn to the experts

Project: 23420
Model Number: 25HCE448AP060

Plan-ID: System-03

Page: 19
Quantity: 1

AHRI Rated Cooling Performance

AHRI Certified Reference # 211808587
AHRI Rated Cooling Capacity 47,000 Btuh
EER 11.50 EER
SEER 14 SEER
Rated Indoor Coil: FJ4DNBC48L00

Cooling Performance @ Project Parameters

Net Cooling Capacity 48,277 Btuh
Net Sensible Capacity 37,032 Btuh
Net Latent Capacity 11,245 Btuh
Total Supply Air 1760 cfm
Outdoor DB Temp 95.0 °F
Entering DB Temp 80.0 °F
Entering WB Temp 67.0 °F
Leaving DB Temp 60.5 °F
Leaving WB Temp 58.5 °F

HP Heating Performance

HP Capacity @47.0°F 45,000 Btuh
HP Capacity @17.0°F 25,600 Btuh
HSPF (Region IV) 8.2 HSPF

Electrical Data

Power Supply	460	Volts
	3	Phase
	60	Hertz
Minimum Circuit Ampacity	8.3	Amps
MOCP	15	Amps

Weight

Total Weight	197	lb
Factory Charge	8.68	lb
Required Charge	8.68	lb

Field Installed Accessories

Heat Pump Condensing Unit - Building A & B: 4 Ton

ATTACHMENT 1 - RESUBMITTED PLANS



Turn to the experts

Project: 23420
Model Number: 25HCE448AP060

Plan-ID: System-03

Page: 20
Quantity: 1

Features

14 Seer Heat Pump

Efficiency

- Microtube Technology™ refrigeration system
- Indoor air quality accessories available
- Copper tube / Aluminum fin

Comfort

- System supports CoR, Edge, or standard thermostat controls

Reliability

- Non-ozone depleting Puron refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on, complete outer coverage, powder paint

Applications

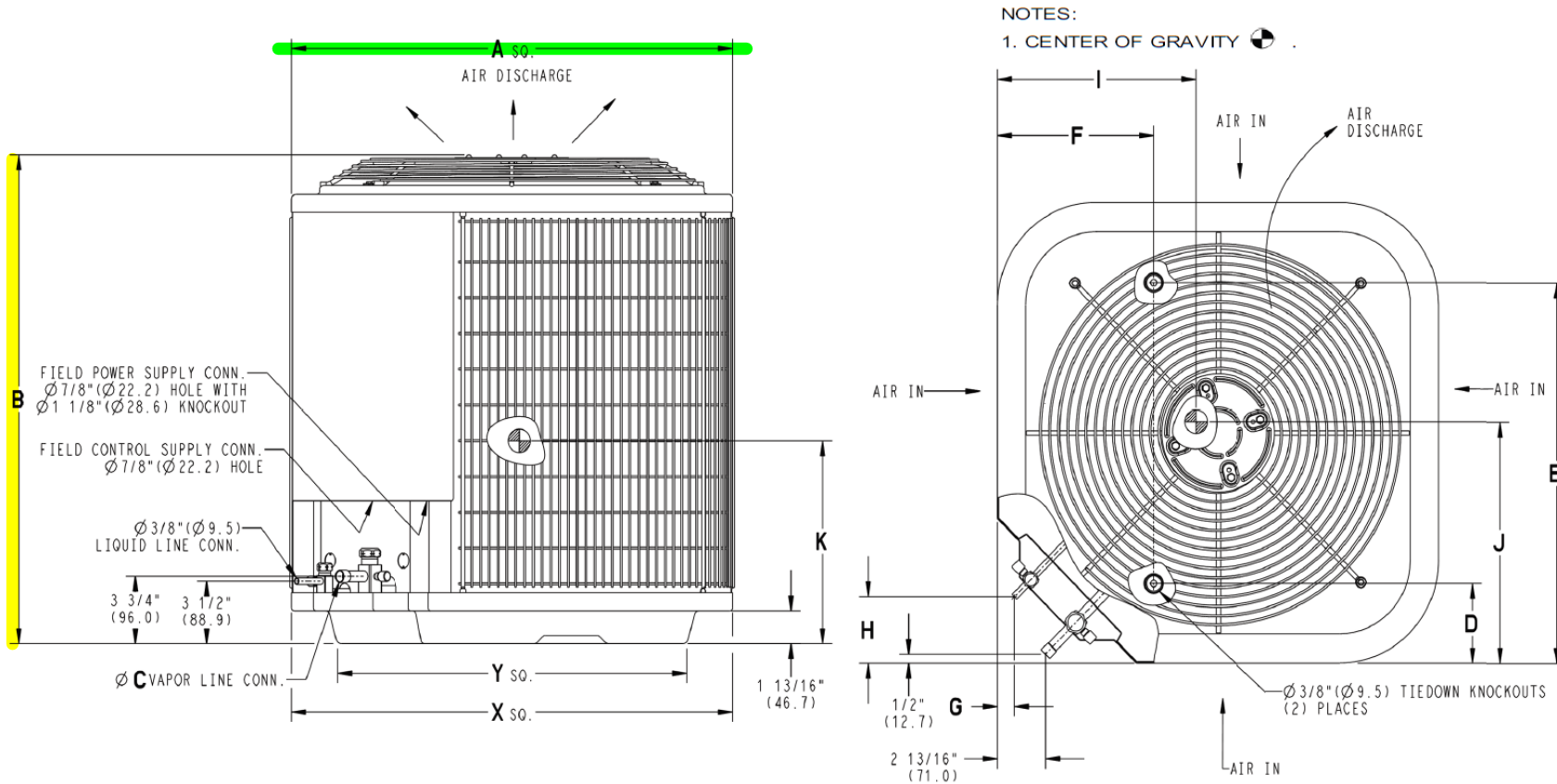
- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient operation (down to -20 F/-28.9 C with low ambient accessories)

ATTACHMENT 1 - RESUBMITTED PLANS



Project: 23420
Model Number: 25HCE448AP060

Plan-ID: System-03



Dimensions (in.)					
A	B	C	D	E	F
31-3/16	28-11/16	7/8	6-9/16	24-11/16	9-1/8
G	H	I	J	K	Min Mounting Pad
1-1/8	3-13/16	33-3/8	33-3/8	33-1/4	31-3/16 x 31-3/16

ATTACHMENT 1 - RESUBMITTED PLANS



Project: 23420
Model Number: FJ4DNBC48L00

Plan-ID: System-03

Page: 22
Quantity: 1

Weight		
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Weight	182	lb
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Supply Air Performance		
------------------------	--	--

Total Supply Air	1760	cfm
External Static Pressure	0.50	in wg.
Blower Type	Direct Drive	
Tap5 Blower Speed		

Supply Air Performance is shown for Cooling Mode

Electrical Data		
-----------------	--	--

Power Supply	208	Volts
	1	Phase
	60	Hertz
Minimum Circuit Ampacity	7.6	Amps
MOCP	15	Amps

Field Installed Accessories

Heat Pump Fan Coil Unit - Building A & B: 4 Ton

ATTACHMENT 1 - RESUBMITTED PLANS



Turn to the experts

Project: 23420
Model Number: FJ4DNBC48L00

Plan-ID: System-03

Page: 23
Quantity: 1

Features

Fan Coil

- Multi-tap ECM (electronic commutating motor) motors
- Integrated motor controls, with 90-sec off TDR function, have replaced integrated circuit board
- Five available speed tags to meet a wide range of applications
- Large, grooved tube, louvered fin coils
- Efficient, quiet, time-tested blower housings and diffusers
- Sturdy, drainable condensate pans
- Cabinet construction features innovations designed to prevent cabinet sweating
- Tested for condensate disposal in much tougher conditions than Air Conditioning and Refrigeration Institute requirements
- Super-thick R-4.2 insulation with vapor barrier
- Pre-painted galvanized steel cabinet (taupe metallic)
- Design meets stringent regulations for cabinet air leakage of less than 2% when tested at 0.5 inches W.C., and cabinet air leakage less than 1.4% at 0.5 inches W.C. when tested in accordance with ASHRAE 193 standard.
- Installation-flexible, multipoise units
- 2-piece modular design available. Facilitates attic and crawlspace installations.
- Horizontal hanging provisions on cabinet
- No tools required to access filter
- Newly improved filter rack area - filter door insulation added for improved air seal
- Factory-supplied power plug
- Easy plug-in provisions for heater installation
- Entry options for high and low voltage wiring hook-up
- Leak-preventing sweat connections
- Thermostatic expansion valve, TXV, on all coils
- Designed for manufactured housing applications.

Table 8 – Estimated Sound Power Level (dBA)*

SIZE	CONDITIONS		OCTAVE BAND CENTER FREQUENCY						
	CFM	Ext Static Pressure	63	125	250	500	1000	2000	4000
48	1600	0.50	75.0	71.0	67.0	64.0	62.0	60.0	56.0

* Estimated sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, Chapter 52, p. 52.7.

ATTACHMENT 1 - RESUBMITTED PLANS

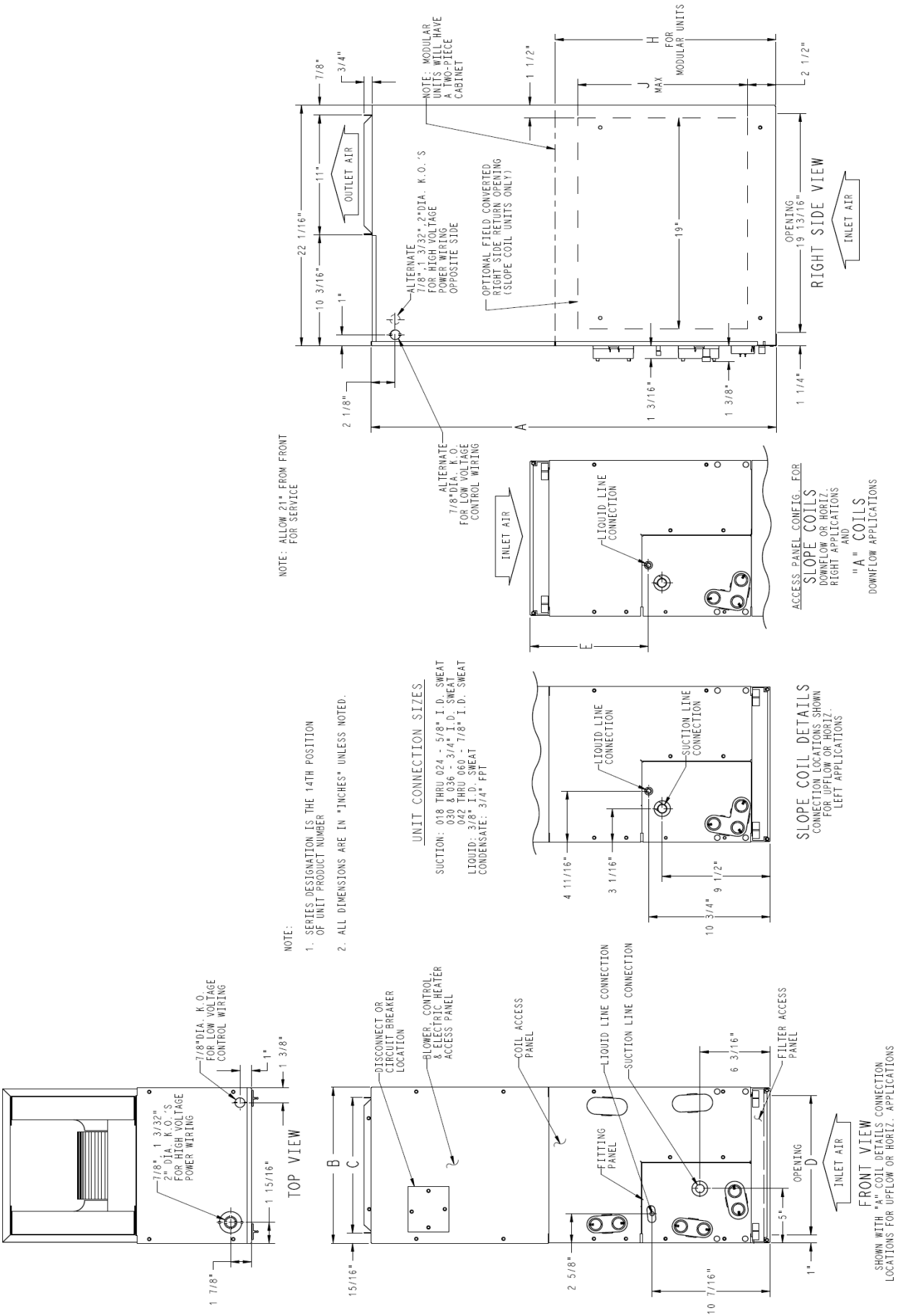


Project: 23420
Model Number: FJ4DNBC48L00

Plan-ID: System-03

Page: 24
Quantity: 1

Dimensions (in.)						
A	B	C	D	E	F	G
53-7/16	21-1/8	19-1/4	19-1/8	19-1/2	27-1/4	26-15/16



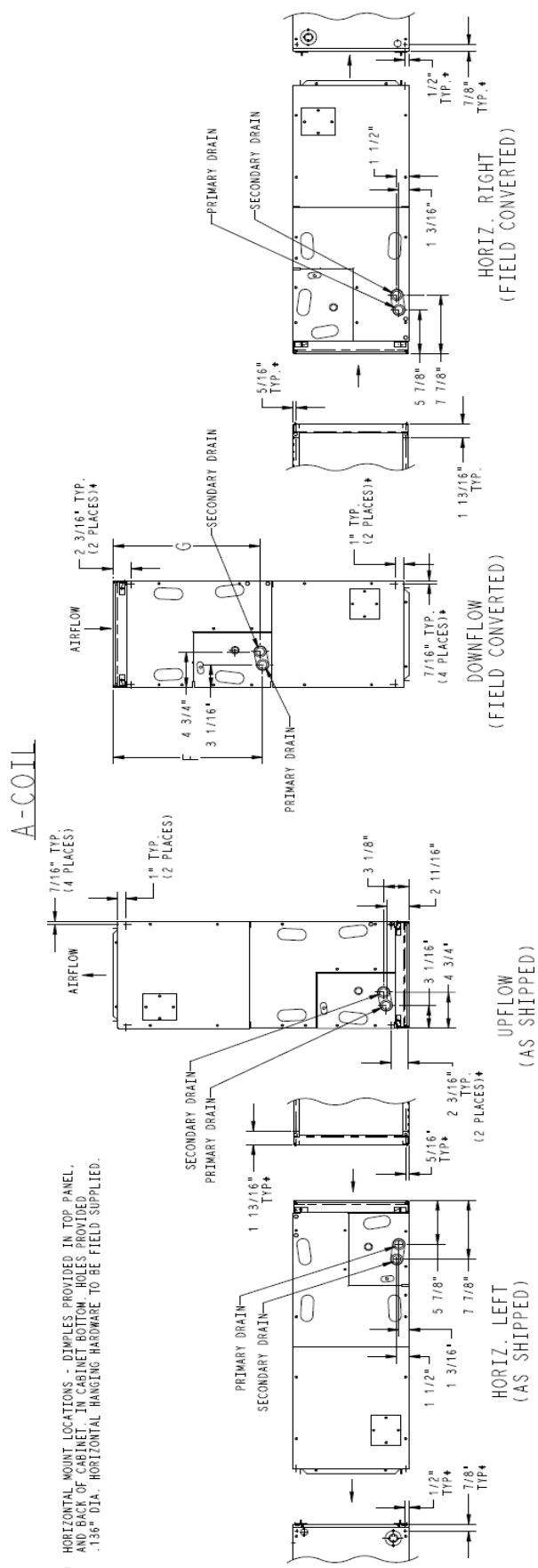


Turn to the experts

Project: 23420
Model Number: FJ4DNBC48L00

Plan-ID: System-03

Page: 25
Quantity: 1



ATTACHMENT 1 - RESUBMITTED PLANS



Turn to the experts

Project: 23420
Model Number: 25HCE436AP061

Plan-ID: System-04

Page: 26
Quantity: 1

AHRI Rated Cooling Performance

AHRI Certified Reference # 211808257
AHRI Rated Cooling Capacity 33,200 Btuh
EER 11.50 EER
SEER 15 SEER
Rated Indoor Coil: FJ4DNXB36L00

Cooling Performance @ Project Parameters

Net Cooling Capacity 33,365 Btuh
Net Sensible Capacity 25,089 Btuh
Net Latent Capacity 8,277 Btuh
Total Supply Air 1256 cfm
Outdoor DB Temp 95.0 °F
Entering DB Temp 80.0 °F
Entering WB Temp 67.0 °F
Leaving DB Temp 61.5 °F
Leaving WB Temp 58.8 °F

HP Heating Performance

HP Capacity @47.0°F 30,000 Btuh
HP Capacity @17.0°F 17,500 Btuh
HSPF (Region IV) 8.2 HSPF

Electrical Data

Power Supply	460	Volts
	3	Phase
	60	Hertz
Minimum Circuit Ampacity	5.4	Amps
MOCP	15	Amps

Weight

Total Weight	170	lb
Factory Charge	7.67	lb
Required Charge	7.67	lb

Field Installed Accessories

Heat Pump Condensing Unit - Building A & B: 3 Ton

ATTACHMENT 1 - RESUBMITTED PLANS



Turn to the experts

Project: 23420
Model Number: 25HCE436AP061

Plan-ID: System-04

Page: 27
Quantity: 1

Features

14 Seer Heat Pump

Efficiency

- Microtube Technology™ refrigeration system
- Indoor air quality accessories available
- Copper tube / Aluminum fin

Comfort

- System supports CoR, Edge, or standard thermostat controls

Reliability

- Non-ozone depleting Puron refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on, complete outer coverage, powder paint

Applications

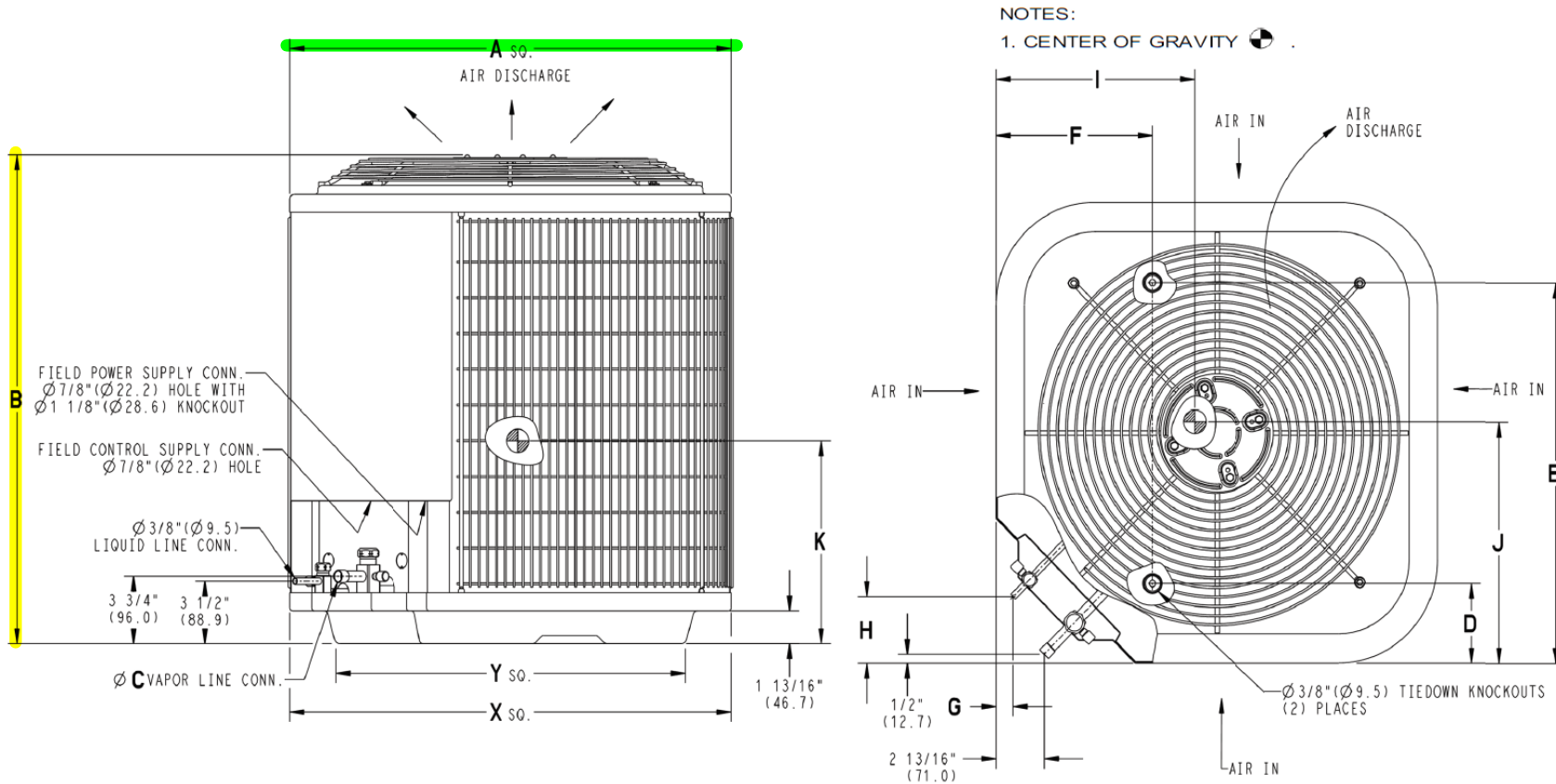
- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient operation (down to -20 F/-28.9 C with low ambient accessories)

ATTACHMENT 1 - RESUBMITTED PLANS



Project: 23420
Model Number: 25HCE436AP061

Plan-ID: System-04



Dimensions (in.)					
A	B	C	D	E	F
31-3/16	28-11/16	3/4	6-9/16	24-11/16	9-1/8
G	H	I	J	K	Min Mounting Pad
1-1/8	3-13/16	33-3/8	33-3/8	33-1/4	31-3/16 x 31-3/16

ATTACHMENT 1 - RESUBMITTED PLANS



Project: 23420
Model Number: FJ4DNXB36L00

Plan-ID: System-04

Page: 29
Quantity: 1

Weight		
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Weight	148	lb
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Supply Air Performance		
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Total Supply Air	1256	cfm
External Static Pressure	0.30	in wg.
Blower Type	Direct Drive	
Tap3 Blower Speed		

Supply Air Performance is shown for Cooling Mode

Electrical Data		
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Power Supply	208	Volts
	1	Phase
	60	Hertz
Minimum Circuit Ampacity	5.3	Amps
MOCP	15	Amps

Field Installed Accessories

Heat Pump Fan Coil Unit - Building A & B: 3 Ton

ATTACHMENT 1 - RESUBMITTED PLANS



Turn to the experts

Project: 23420
Model Number: FJ4DNXB36L00

Plan-ID: System-04

Page: 30
Quantity: 1

Features

Fan Coil

- Multi-tap ECM (electronic commutating motor) motors
- Integrated motor controls, with 90-sec off TDR function, have replaced integrated circuit board
- Five available speed tags to meet a wide range of applications
- Large, grooved tube, louvered fin coils
- Efficient, quiet, time-tested blower housings and diffusers
- Sturdy, drainable condensate pans
- Cabinet construction features innovations designed to prevent cabinet sweating
- Tested for condensate disposal in much tougher conditions than Air Conditioning and Refrigeration Institute requirements
- Super-thick R-4.2 insulation with vapor barrier
- Pre-painted galvanized steel cabinet (taupe metallic)
- Design meets stringent regulations for cabinet air leakage of less than 2% when tested at 0.5 inches W.C., and cabinet air leakage less than 1.4% at 0.5 inches W.C. when tested in accordance with ASHRAE 193 standard.
- Installation-flexible, multipoise units
- Horizontal hanging provisions on cabinet
- No tools required to access filter
- Newly improved filter rack area - filter door insulation added for improved air seal
- Factory-supplied power plug
- Easy plug-in provisions for heater installation
- Entry options for high and low voltage wiring hook-up
- Leak-preventing sweat connections
- Thermostatic expansion valve, TXV, on all coils
- Designed for manufactured housing applications.

Estimated Sound Power Level (dBA)*

SIZE	CONDITIONS		OCTAVE BAND CENTER FREQUENCY						
	CFM	Ext Static Pressure	63	125	250	500	1000	2000	4000
36	1200	0.50	73.8	69.8	65.8	62.8	60.8	58.8	54.8

* Estimated sound power levels have been derived using the method described in the 1987 ASHRAE HVAC Systems & Applications Handbook, Chapter 52, p. 52.7.

ATTACHMENT 1 - RESUBMITTED PLANS

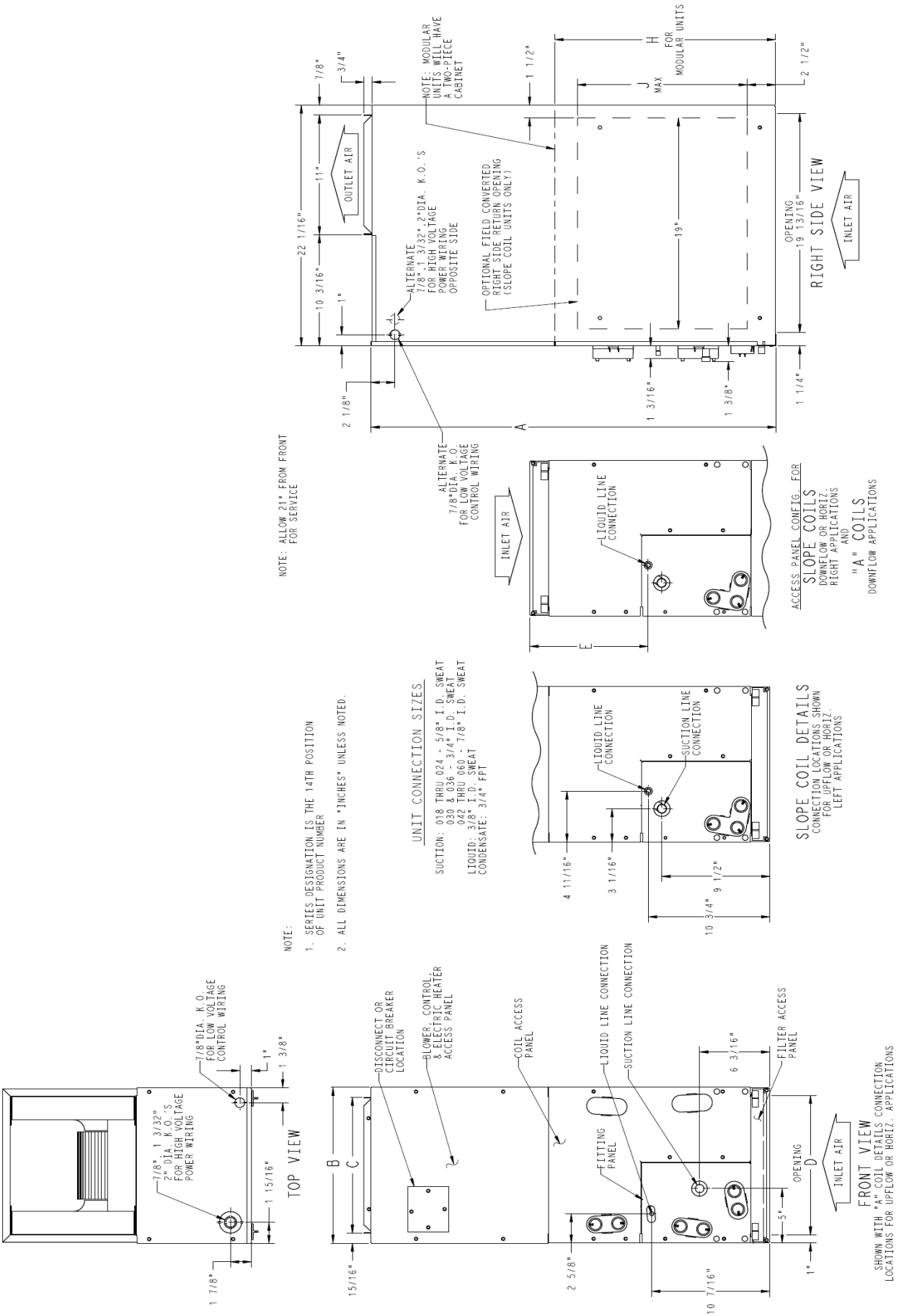


Project: 23420
Model Number: FJ4DNXB36L00

Plan-ID: System-04

Page: 31
Quantity: 1

Dimensions (in.)						
A	B	C	D	E	F	G
49-5/8	17-5/8	15-3/4	15-5/8	15-7/8	23-1/8	23-1/2



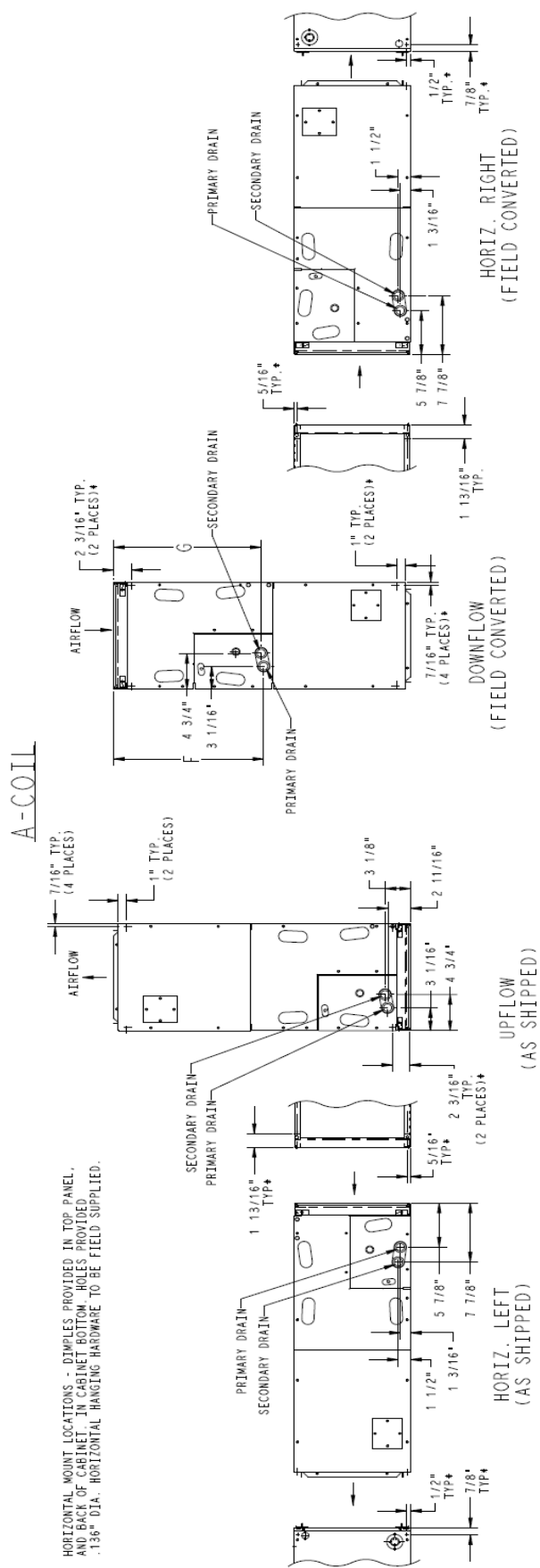


Turn to the experts

Project: 23420
Model Number: FJ4DNXB36L00

Plan-ID: System-04

Page: 32
Quantity: 1



ATTACHMENT 1 - RESUBMITTED PLANS

Performance Summary For 4 ton

Project: 23420
Prepared By:

08-07-2023
06:12PM

Heat Pump Rooftop Unit Building A & B

Part Number:50FCQA05A1A6-0A0A0

ARI SEER:14.30

Base Unit Dimensions

Unit Length:74.4 in
Unit Width:46.6 in
Unit Height:33.4 in

Operating Weight

Base Unit Weight:473 lb

Accessories

14-inch Tall Roof Curb:115 lb

Total Operating Weight:588 lb

Unit

Unit Voltage-Phase-Hertz:460-3-60
Air Discharge:Vertical
Fan Drive Type:Vane Axial
Actual Airflow:1600 CFM
Site Altitude:49 ft

Cooling Performance

Condenser Entering Air DB:95.0 F
Evaporator Entering Air DB:80.8 F
Evaporator Entering Air WB:67.6 F
Entering Air Enthalpy:31.96 BTU/lb
Evaporator Leaving Air DB:58.8 F
Evaporator Leaving Air WB:57.8 F
Evaporator Leaving Air Enthalpy:24.93 BTU/lb
Gross Cooling Capacity:50.50 MBH
Gross Sensible Capacity:37.90 MBH
Compressor Power Input:3.54 kW
Coil Bypass Factor:0.113

Mixed Air

Outdoor Air Airflow:80 CFM
Outdoor Air DB:95.0 F
Outdoor Air WB:78.0 F
Outdoor Air Htg. Temp.:30.0 F
Return Air DB:80.0 F
Return Air WB:67.0 F
Return Air Htg. Temp.:70.0 F

Heating Performance

Outdoor Ambient Temperature:30.0 F
Entering Air Indoor Coil DB:68.0 F
Leaving Air Indoor Coil DB:88.9 F
Total Heating Capacity:36.07 MBH
Integrated Heating Capacity:31.56 MBH
Heating Power Input:2.70 kW
High Temperature COP:3.70
Low Temperature COP:2.28
HSPF:8.2

Supply Fan

External Static Pressure:0.50 in wg
Fan RPM:1602
Fan Power:0.44 BHP
NOTE:Selected IFM RPM Range: 190 - 1900

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data

Voltage Range:414 - 506

ATTACHMENT 1 - RESUBMITTED PLANS

Performance Summary For 4 ton

Project: 23420
Prepared By:

08-07-2023
06:12PM

Compressor #1 RLA:	6.2
Compressor #1 LRA:	41
Indoor Fan Motor Type:	STD
Indoor Fan Motor FLA:	1.2
Power Supply MCA:	10
Power Supply MOCP (Fuse or HACR):	15
Disconnect Size FLA:	9
Disconnect Size LRA:	45
Electrical Convenience Outlet:	None
Outdoor Fan [Qty / FLA (ea)]:	1 / 0.8

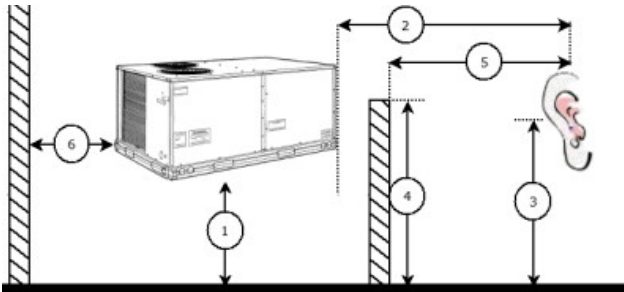
Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Power Levels, db re 10E-12 Watts

	Discharge	Inlet	Outdoor
63 Hz	87.8	85.8	85.6
125 Hz	77.9	73.1	84.7
250 Hz	71.6	68.7	80.5
500 Hz	68.0	58.8	76.0
1000 Hz	63.5	62.2	72.4
2000 Hz	60.6	53.1	68.0
4000 Hz	58.6	46.9	62.8
8000 Hz	56.7	41.5	59.3
A-Weighted	71.1	66.8	79.0

Advanced Acoustics



Advanced Acoustics Parameters

- Unit height above ground: 30.0 ft
- Horizontal distance from unit to receiver: 50.0 ft
- Receiver height above ground: 5.7 ft
- Height of obstruction: 0.0 ft
- Horizontal distance from obstruction to receiver: 0.0 ft
- Horizontal distance from unit to obstruction: 0.0 ft

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3	89.2 Lw
B	59.4	68.6	71.9	72.8	72.4	69.2	63.8	58.2	78.5 LwA
C	53.2	52.3	48.1	43.6	40.0	35.6	30.4	26.9	56.8 Lp
D	27.0	36.2	39.5	40.4	40.0	36.8	31.4	25.8	46.1 LpA

Legend

A Sound Power Levels at Unit's Acoustic Center, Lw

B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA

ATTACHMENT 1 - RESUBMITTED PLANS

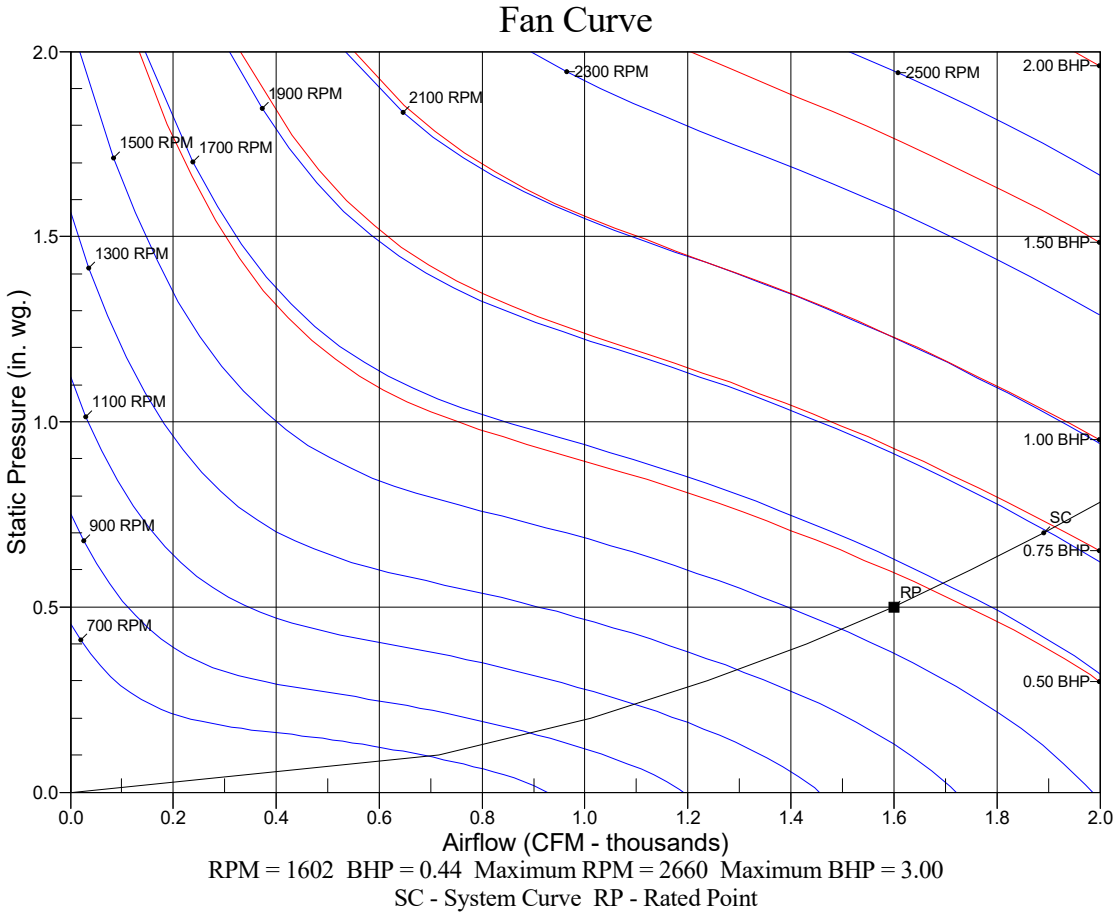
Performance Summary For 4 ton

Project: 23420
Prepared By:

08-07-2023
06:12PM

C Sound Pressure Levels at Specific Distance from Unit, Lp
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.



ATTACHMENT 1 - RESUBMITTED PLANS

Performance Summary For RTU Cooling Only

Project: 23420
Prepared By:

06/27/2024
10:11PM

Rooftop Unit (Cooling Only) Building A & B: Elevator

Part Number:50VG-A36---6

ARI SEER:.....16.00

Base Unit Dimensions

Unit Length:.....48.3 in
Unit Width:.....44.2 in
Unit Height:.....44.8 in

Base Unit Weight (Does not include any accessories):.....389 lb

Unit

Unit Voltage-Phase-Hertz:.....460-3-60
Air Discharge:.....Horizontal
Fan Drive Type:.....Direct
Actual Airflow:.....1249 CFM
Site Altitude:.....46 ft

Cooling Performance

Condenser Entering Air DB:.....95.5 F
Evaporator Entering Air DB:.....80.0 F
Evaporator Entering Air WB:.....67.0 F
Entering Air Enthalpy:.....31.46 BTU/lb
Evaporator Leaving Air DB:.....59.7 F
Evaporator Leaving Air WB:.....58.2 F
Evaporator Leaving Air Enthalpy:.....25.16 BTU/lb
Net Cooling Capacity:.....35.39 MBH
Net Sensible Capacity:.....27.36 MBH
Total Unit Power Input:.....2.85 kW
Coil Bypass Factor:.....0.000

Supply Fan

External Static Pressure:.....0.50 in wg
Options / Accessories Static Pressure
Wet Coil:.....0.10 in wg
Application External Static (ESP + Unit Opts/Acc.):.....0.60 in wg
Fan RPM:.....1000
Fan Power:.....0.35 BHP
Fan Motor Size, hp:.....3/4
NOTE:.....High Motor Speed, Horz

Selection includes construction throwaway filter into the base fan curve. This filter is not MERV Rated.

Electrical Data

Minimum Voltage:.....414
Maximum Voltage:.....506
Compressor RLA:.....5.7
Compressor LRA:.....38
Outdoor Fan FLA (ea):.....0.53
Indoor Fan Motor FLA (Total):.....3.2
Power Supply MCA:.....10.8
Power Supply MOCP (Fuse or HACR):.....15

Control Panel SCCR: 5kA RMS at Rated Symmetrical Voltage

Acoustics

Sound Rating:.....73.0 db
Sound Power Levels, db re 10E-12 Watts

ATTACHMENT 1 - RESUBMITTED PLANS

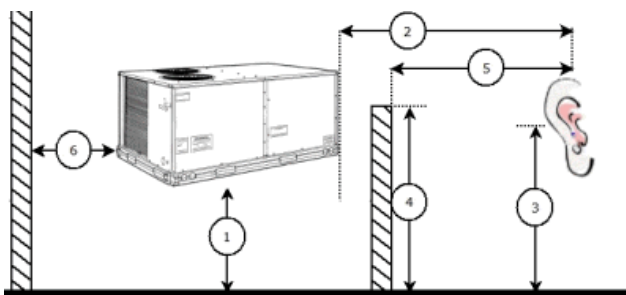
Performance Summary For RTU Cooling Only

Project: 23420
Prepared By:

06/27/2024
10:11PM

	Discharge	Inlet	Outdoor
63 Hz	NA	NA	NA
125 Hz	NA	NA	62.5
250 Hz	NA	NA	65.5
500 Hz	NA	NA	67.5
1000 Hz	NA	NA	68.0
2000 Hz	NA	NA	65.5
4000 Hz	NA	NA	60.0
8000 Hz	NA	NA	52.5

Advanced Acoustics



Advanced Acoustics Parameters

1. Unit height above ground:.....30.0 ft
2. Horizontal distance from unit to receiver:.....50.0 ft
3. Receiver height above ground:.....5.7 ft
4. Height of obstruction:.....0.0 ft
5. Horizontal distance from obstruction to receiver:.....0.0 ft
6. Horizontal distance from unit to obstruction:.....0.0 ft

Detailed Acoustics Information

Octave Band Center Freq. Hz	63	125	250	500	1k	2k	4k	8k	Overall
A	0.0	62.5	65.5	67.5	68.0	65.5	60.0	52.5	73.4 Lw
B	- 26.2	46.4	56.9	64.3	68.0	66.7	61.0	51.4	71.9 LwA
C	0.0	30.1	33.1	35.1	35.6	33.1	27.6	20.1	41.0 Lp
D	- 26.2	14.0	24.5	31.9	35.6	34.3	28.6	19.0	39.5 LpA

Legend

- A Sound Power Levels at Unit's Acoustic Center, Lw
B A-Weighted Sound Power Levels at Unit's Acoustic Center, LwA
C Sound Pressure Levels at Specific Distance from Unit, Lp
D A-Weighted Sound Pressure Levels at Specific Distance from Unit, LpA

Calculation methods used in this program are patterned after the ASHRAE Guide; other ASHRAE Publications and the AHRI Acoustical Standards. While a very significant effort has been made to insure the technical accuracy of this program, it is assumed that the user is knowledgeable in the art of system sound estimation and is aware of the tolerances involved in real world acoustical estimation. This program makes certain assumptions as to the dominant sound sources and sound paths which may not always be appropriate to the real system being estimated. Because of this, no assurances can be offered that this software will always generate an accurate sound prediction from user supplied input data. If in doubt about the estimation of expected sound levels in a space, an Acoustical Engineer or a person with sound prediction expertise should be consulted.

ATTACHMENT 1 - RESUBMITTED PLANS

25HCE4

**Comfort™ 14 Heat Pump
with Puron® Refrigerant
1-1/2 To 5 Nominal Tons**



Turn to the experts

Product Data



Comfort
SERIES

Carrier heat pumps with Puron® refrigerant provide a collection of features unmatched by any other family of equipment. The 25HCE4 has been designed utilizing Carrier's non-ozone depleting Puron® refrigerant.

NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory (www.ahridirectory.org) for the most up-to-date ratings information.

Industry leading Features / Benefits

Efficiency

- 14 SEER / 11.0 - 11.5 EER / 8.2 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

Sound

- Sound level as low as 69 dBA
- Sound levels as low as 68 dBA with accessory sound blanket

Comfort

- System supports programmable or standard thermostat controls

Reliability

- Non-ozone depleting Puron® refrigerant
- Scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Loss of charge switch
- Filter drier
- Balanced refrigeration system for maximum reliability

Durability

WeatherArmor™ protection package:

- Solid, durable sheet metal construction
- Dense wire coil guard
- Baked-on powder paint

Applications

- Long-line - up to 250 feet (76.20 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to -10°F/-23.3°C) with accessory kit

ATTACHMENT 1 - RESUBMITTED PLANS

Dimensions

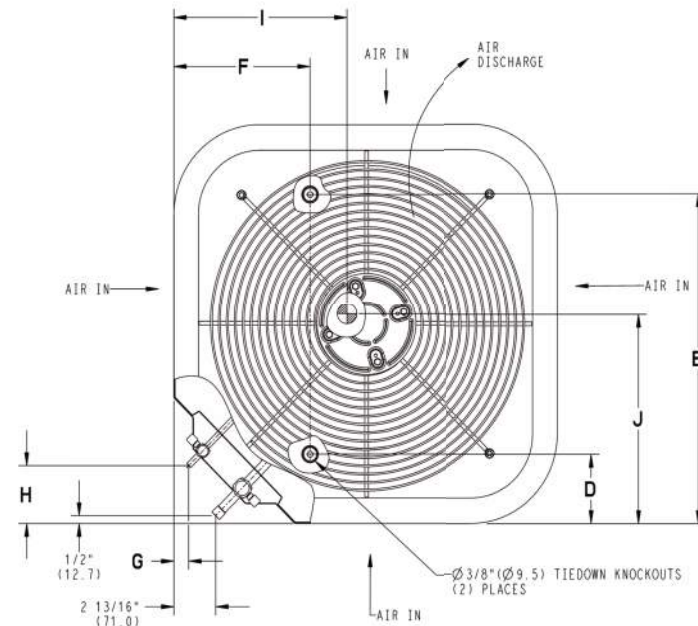
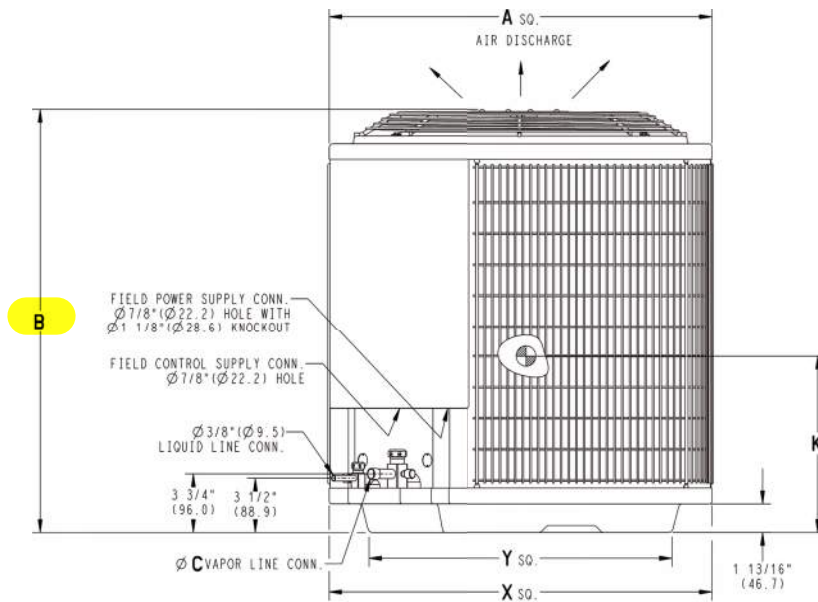
25HCE4: Product Data

UNIT	SERIES	ELECTRICAL CHARACTERISTICS				A		B		C		D		E		F		G		H		I		J		K		OPERATING WEIGHT		SHIPPING WEIGHT		SHIPPING LENGTH / WIDTH (Sq.)		SHIPPING HEIGHT	
						INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	INCH	MM	Lbs	Kgs	Lbs	Kgs	INCH	MM	INCH	MM
25HCE418AP030011	0	Y	N	N	N	23 1/8	587.3	35 1/2	902.0	5/8	15.9	4 7/16	113.0	18 1/16	459.0	7 13/16	197.9	1 1/8	28.2	3 13/16	97.4	11	279.4	15 3/4	400.1	12	304.8	136	61.7	150	68.0	26	660.0	40 3/4	1034.8
25HCE424AP030011	0	Y	N	N	N	25 3/4	654.0	35 1/2	901.4	5/8	15.9	4 7/16	113.0	21 1/4	539.9	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	12	304.8	13 1/4	336.6	13 1/2	342.9	144	65.3	158	71.7	28 3/4	730.0	40 3/4	1034.8
25HCE430AP030011	0	Y	N	N	N	31 3/16	792.5	32 1/16	815.1	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15	381.0	11	279.4	16	406.4	158	71.7	175	79.4	34 1/4	870.0	37 5/16	947.9
25HCE436AP031011	1	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14	355.6	10 3/4	273.1	170	77.1	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE436AP051011	1	N	Y	N	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14	355.6	10 3/4	273.1	170	77.1	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE436AP061011	1	N	N	Y	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14	355.6	10 3/4	273.1	170	77.1	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE436APL30011	0	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	3/4	19.1	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 3/4	400.1	14 1/4	362.0	12 1/2	317.5	170	76.9	186	84.4	34 1/4	870.0	33 15/16	861.6
25HCE442AP030011	0	Y	N	N	N	31 3/16	792.5	38 7/8	987.8	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	15 1/2	393.7	13 1/2	342.9	14	355.6	201	91.2	219	99.3	34 1/4	870.0	44 1/8	1120.7
25HCE442APL30011	0	Y	N	N	N	31 3/16	792.5	38 7/8	987.8	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 5/8	371.5	16 1/8	409.6	17	431.8	190	86.0	207	93.9	34 1/4	870.0	44 1/8	1120.7
25HCE448AP030011	0	Y	N	N	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	11 1/2	292.1	15	381.0	197	89.4	213	96.6	34 1/4	870.0	33 15/16	861.6
25HCE448AP050011	0	N	Y	N	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	11 1/2	292.1	15	381.0	197	89.4	213	96.6	34 1/4	870.0	33 15/16	861.6
25HCE448AP060011	0	N	N	Y	N	31 3/16	792.5	28 11/16	728.7	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	16 1/2	419.1	11 1/2	292.1	15	381.0	197	89.4	213	96.6	34 1/4	870.0	33 15/16	861.6
25HCE460AP030011	0	Y	N	N	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 3/4	374.7	15 3/4	400.1	16 1/4	412.8	212	96.2	229	103.9	34 1/4	870.0	37 5/16	947.9
25HCE460AP050011	0	N	Y	N	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 3/4	374.7	15 3/4	400.1	16 1/4	412.8	212	96.2	229	103.9	34 1/4	870.0	37 5/16	947.9
25HCE460AP060011	0	N	N	Y	N	31 3/16	792.5	32 1/16	815.1	7/8	22.2	6 9/16	166.1	24 11/16	626.3	9 1/8	231.3	1 1/8	28.2	3 13/16	97.4	14 3/4	374.7	15 3/4	400.1	16 1/4	412.8	212	96.2	229	103.9	34 1/4	870.0	37 5/16	947.9

208-230-1-60	Y-YES N-NO
208/230-3-60	
460-5-60	
575-5-60	

NOTES:

1. CENTER OF GRAVITY



UNIT SIZE	"X"		"Y"	
	MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS		MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS	
18	23 1/8	587.3	17 7/8	454.6
24	25 3/4	654.0	20 7/16	518.5
30,36,42,48,60	31 3/16	792.5	22 15/16	583.2
-	35	889.0	26 3/4	679.7

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

E4 Sales Drawing - SD5564-4 R

ATTACHMENT 1 - RESUBMITTED PLANS



Product Data

WeatherMaker® Single Packaged Rooftop

3 to 6 Nominal Tons

ecoblue™  technology



48/50FC**04, 05, 06, 07

48FC: Single-Package Gas Heating/Electric Cooling Rooftop Units

50FC: Electric Cooling Rooftop Units with Optional Electric Heat
with Puron® Refrigerant (R-410A)

The New Carrier WeatherMaker® rooftop units (RTU) with EcoBlue™ Technology were designed by customers for customers and integrate new technology to provide value added benefits never seen in this type of equipment before.

New major design features include:

- Patent pending, industry's first efficient indoor fan system using Vane Axial fan with electric commutated variable speed motor
- Reliable fixed speed scroll compressor on 3-5 ton sizes and 2 stage scroll technology on 6 ton sizes
- Upgraded unit control board with intuitive indoor fan adjustment
- Reliable copper tube/aluminum fin condenser coil with 5/16 in. tubing to help reduce refrigerant charge versus prior designs
- New outdoor fan system with rugged — lightweight high impact composite fan blade

WeatherMaker® 48/50FC units up to 6 tons are specifically designed to fit on Carrier roof curbs that were installed back to 1989, which makes replacement easy and eliminates the need for curb adapters or changing utility connections.

Single-stage units deliver efficiencies of up to 14.0 SEER and 15.2 IEER on 3-phase products and 13.8 SEER2 on single-phase products. All models are

capable of either vertical or horizontal airflow.

The Carrier rooftop unit (RTU) was designed by customers for customers. With "no-strip" screw collars, handled access panels, and more, the unit is easy to install, easy to maintain, and easy to use. Your new 3 to 6 ton Carrier WeatherMaker rooftop unit (RTU) provides optimum comfort and control from a packaged rooftop.

Value-added features include:

- optional Humidi-MiZer® adaptive dehumidification system for improved part load humidity performance
- Puron® refrigerant (R-410A)
- single point gas and electrical connections
- optional fully integrated SystemVu™ controls
- RTU Open controller for BACnet¹, LonWorks², Modbus³ and Johnson Controls N2
- 3 to 5 ton models use fixed refrigerant metering devices and 6 ton models use a TXV
- Scroll compressors with internal line-break overload protection
- Units come with an easy access tool-less filter door. Filter track tilts out for filter removal and replacement. All filters are the same size in each unit

1. BACnet is a trademark of ASHRAE.
2. LonWorks is a registered trademark of Echelon Corporation.
3. Modbus is a registered trademark of Schneider Electric.

Installation ease

All WeatherMaker units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications. Lighter units make for easy replace. Simple, fast plug-in connections to the standard integrated unit control board (UCB). Clearly labeled connections points to reduce installation time. Also, a large control box provides room to work and room to mount Carrier accessory controls.

Easy to maintain

With the new EcoBlue Vane Axial fan system and direct drive ECM motor, there is no longer a need to adjust belts or pulleys as in past designs. This frees up maintenance and installation time.

Easy access handles by Carrier provide quick and easy access to all normally serviced components. Our "no-strip" screw system has superior holding power and guides screws into position while preventing the screw from stripping the unit's metal.

Sloped, corrosion resistant composite drain pan sheds water; and won't rust.

Easy to use

The newly re-designed Unit Control Board by Carrier puts all connections and troubleshooting points in one convenient place. Most low voltage connections are made to the same board and make it easy to access it. Setting up the fan is simple by an intuitive switch and rotary dial arrangement. Carrier rooftops have high and low pressure switches, a filter drier, and 2-in. filters standard.

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ATTACHMENT 1 - RESUBMITTED PLANS

Features/Benefits (cont)



EcoBlue™ Technology

Direct drive EcoBlue Technology indoor fan system uses Vane Axial fan design and electrically commutated motors.

This new Vane Axial design over past belt drive systems has 75% fewer moving parts, uses up to 40% less energy and has no fan belts, blower bearings and shaft.

Streamlined control and integration

Carrier controllers make connecting WeatherMaker® rooftops into existing building automation systems easy. The

units are compatible with conventional thermostat controls, SystemVu™ controls and Carrier RTU Open multi-protocol controller.

Operating efficiency and flexibility

The 48/50FC rooftops meet ASHRAE (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) 90.1-2016, IECC¹ (International Energy Conservation Code) IECC-2018 minimum efficiency requirements.

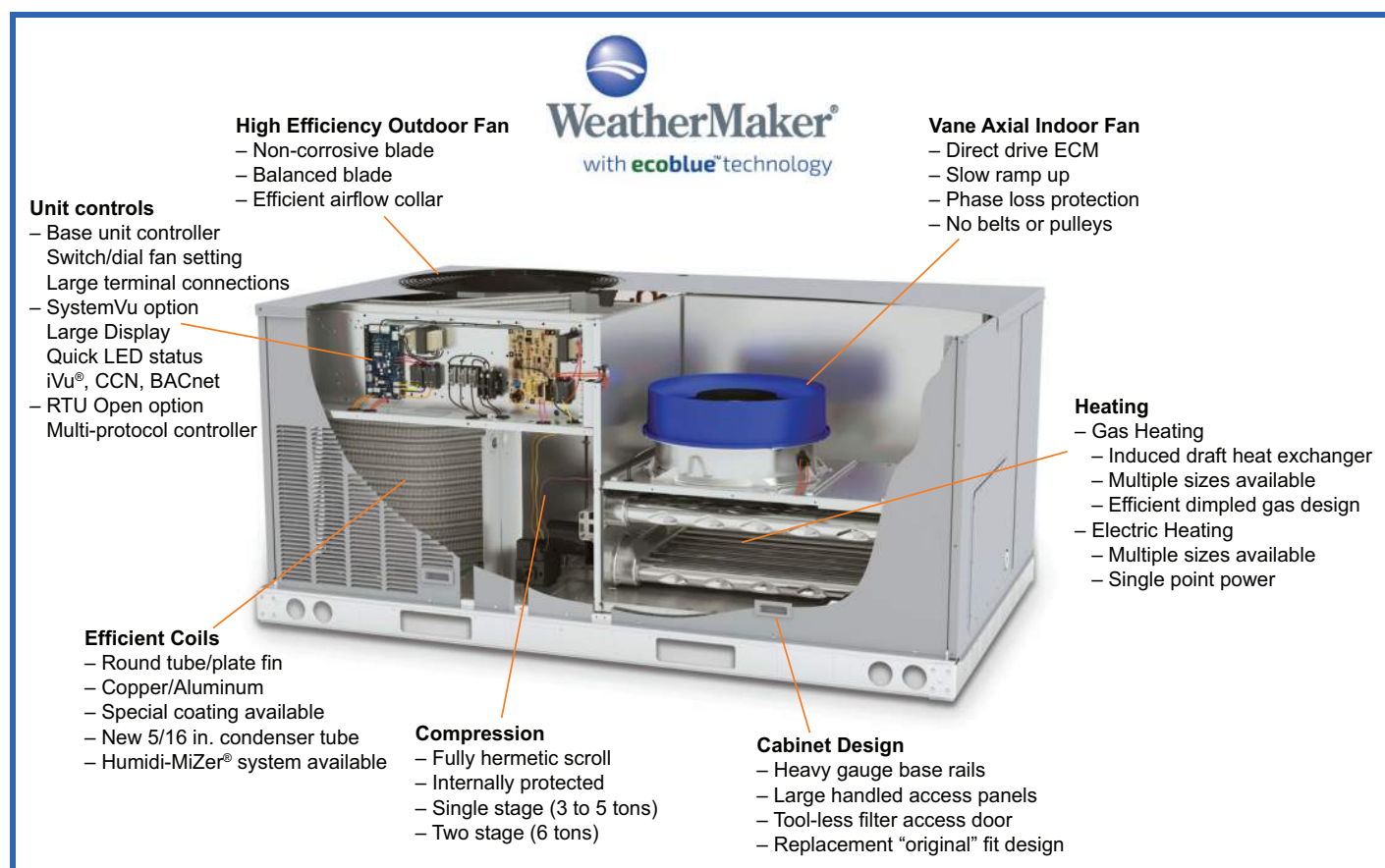
1. IECC is a registered trademark of the International Code Council, Inc.

Field convertible airflow

All WeatherMaker 3 to 6 ton units are field-convertible to horizontal airflow, which makes it easy to adjust to unexpected jobsite complications.

Comfort control

Carrier's patented Humidi-MiZer® adaptive dehumidification system is an all-inclusive factory-installed option on gas heating/electric cooling and electric cooling/electric heat models. This system provides reliable, flexible operation to meet indoor part load sensible and latent requirements.



ATTACHMENT 1 - RESUBMITTED PLANS

Model number nomenclature (cont)



50FC Model Number Nomenclature

Position:	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
Example:	5	0	F	C	-	A	0	4	A	2	A	5	-	0	A	0	A	0

Unit Heat Type

50 = Electric Heat Packaged Rooftop

Model Series — WeatherMaker®

FC = 14.0 SEER Standard Efficiency, sizes 04-06
13.4 SEER2 Standard Efficiency, sizes 04-06
15.2 IEER Standard Efficiency, size 07

Heat Size

- = No heat

Refrig. Systems Options

A = Standard One Stage Cooling Models¹
B = Standard One Stage Cooling Models with Humidi-MiZer® system^{1,2}
C = Standard One Stage Cooling Models, 1-phase voltage (SEER2)^{1,3}
M = Single Circuit, Two Stage Cooling Models⁴
N = Single Circuit, Two Stage Cooling Models with Humidi-MiZer system^{2,4}

Cooling Tons

04 = 3 tons
05 = 4 tons
06 = 5 tons
07 = 6 tons

Sensor Options

A = None
B = Return Air (RA) Smoke Detector
C = Supply Air (SA) Smoke Detector
D = RA + SA Smoke Detector
E = CO₂ Sensor
F = RA Smoke Detector and CO₂ Sensor
G = SA Smoke Detector and CO₂ Sensor
H = RA + SA Smoke Detector and CO₂ Sensor
J = Condensate Overflow Switch
K = Condensate Overflow Switch and RA Smoke Detector
L = Condensate Overflow Switch and RA and SA Smoke Detectors
M = Condensate Overflow Switch and SA Smoke Detector

Indoor Fan Options

1 = Direct Drive – EcoBlue – Standard Static
2 = Direct Drive – EcoBlue – Medium Static
3 = Direct Drive – EcoBlue – High Static

Coil Options – (Outdoor - Indoor - Hail Guard)

A = Al/Cu - Al/Cu
B = Precoat Al/Cu - Al/Cu
C = E-coat Al/Cu - Al/Cu
D = E-coat Al/Cu - E-coat Al/Cu
E = Cu/Cu - Al/Cu
F = Cu/Cu - Cu/Cu
M = Al/Cu - Al/Cu — Louvered Hail Guard
N = Precoat Al/Cu - Al/Cu — Louvered Hail Guard
P = E-coat Al/Cu - Al/Cu — Louvered Hail Guard
Q = E-coat Al/Cu - E-coat Al/Cu — Louvered Hail Guard
R = Cu/Cu - Al/Cu — Louvered Hail Guard
S = Cu/Cu - Cu/Cu — Louvered Hail Guard

Packaging & Seismic Compliance

0 = Standard
1 = LTL

Electrical Options

A = None
C = Non-Fused Disconnect (NFD)
D = Thru-the-Base (TTB) Connections
F = Non-Fused Disconnect and TTB Connections

Service Options

0 = None
1 = Unpowered Convenience Outlet (CO)
2 = Powered Convenience Outlet
3 = Hinged Panels
4 = Hinged Panels and Unpowered CO
5 = Hinged Panels and Powered CO

Intake / Exhaust Options

A = None
B = Temperature Economizer with Barometric Relief
F = Enthalpy Economizer with Barometric Relief
K = Two-Position Damper¹
U = Temperature Ultra Low Leak Economizer with Barometric Relief
W = Enthalpy Ultra Low Leak Economizer with Barometric Relief

Base Unit Controls

0 = Electro-mechanical Controls – can be used with field-installed W7212 EconoMiSer® IV (Non-Fault Detection and Diagnostic)
2 = RTU Open Multi-Protocol Controller
3 = SystemVu™ Controls
6 = Electromechanical Controls – can be used with W7220 EconoMiSer X (with Fault Detection and Diagnostic)

Design Revision

- = Factory Design Revision

Voltage

1 = 575-3-60
3 = 208/230-1-60^{1,5}
5 = 208/230-3-60
6 = 460-3-60
9 = 400-3-50⁴

¹ Size 04/05/06 models only.

² Units with Humidi-MiZer System include Low Ambient controller.

³ Units meet Department of Energy 2023 SEER2 requirements.

⁴ Size 07 models only.

⁵ The following are not available as a factory-installed options for models with this voltage code: Humidi-MiZer System, Coated Coils or Cu Fin Coils, Louvered Hail Guards, Economizer or Two-Position Damper, Powered 115 Volt Convenience Outlet.

ATTACHMENT 1 - RESUBMITTED PLANS

Capacity ratings (cont)



50FC-C 1-Phase AHRI Ratings^{a,b,c,d}

UNIT	VOLTAGE	COOLING STAGES	NOM. CAPACITY (tons)	NET COOLING CAPACITY 2 (MBH)	TOTAL POWER 2 (KW)	SEER2	EER2
50FC*C04	3	1	3	34.0	3.0	13.4	11.5
50FC*C05	3	1	4	48.0	4.2	13.8	11.5
50FC*C06	3	1	5	58.5	5.1	13.6	11.5

NOTE(S):

- Rated in accordance with AHRI Standards 210/240 (04-06 size).
- Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
- Units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) and DOE-2023 (Department of Energy) Energy Standard for minimum SEER2 and EER2 requirements.
- 50FC units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

50FC-A/M 3-Phase AHRI Ratings^{a,b,c,d}

UNIT	VOLTAGE	COOLING STAGES	NOMINAL CAPACITY (tons)	NET COOLING CAPACITY (MBH)	TOTAL POWER (kW)	SEER	EER
50FC*A04	1, 5, 6	1	3	34.4	2.9	14	11.7
50FC*A05	1, 5, 6	1	4	47.0	4.0	14	11.8
50FC*A06	1, 5, 6	1	5	58.5	5.2	14	11.2
50FC*M07	1, 5, 6	2	6	70.0	6.3	—	11.2

UNIT	IEER WITH 2-SPEED INDOOR FAN MOTOR	NET COOLING CAPACITY 2 (MBH)	TOTAL POWER 2 (kW)	SEER2	EER2
50FC*A04	—	34.0	3.0	13.4	11.2
50FC*A05	—	47.0	4.2	13.4	11.2
50FC*A06	—	58.5	5.3	13.4	11.0
50FC*M07	15.2	—	—	—	—

NOTE(S):

- Rated in accordance with AHRI Standards 210/240 (04-06 size) and 340/360 (07 size).
- Rating are based on:
Cooling Standard: 80°F (27°C) db, 67°F (19°C) wb indoor air temperature and 95°F (35°C) db outdoor air temperature.
IEER Standard: A measure that expresses cooling part-load EER efficiency for commercial unitary air-conditioning and heat pump equipment on the basis of weighted operation at various load capacities.
- Units comply with ASHRAE 90.1-2016 (American Society of Heating, Refrigerating, and Air-Conditioning Engineers) requirements, as well as DOE-2018 (Department of Energy) Energy Standard for minimum SEER and EER and DOE-2023 Energy Standards for minimum SEER2 and EER2 requirements. ASHRAE 90.1 requires M1 ratings on 3-phase models.
- 50FC units comply with US Energy Policy Act (2005). To evaluate code compliance requirements, refer to state and local codes.

LEGEND

- AHRI** — Air-Conditioning, Heating and Refrigeration Institute
MBH — Btuh in thousands
EER — Energy Efficiency Ratio
IEER — Integrated Energy Efficiency Ratio
SEER — Seasonal Energy Efficiency Ratio



ATTACHMENT 1 - RESUBMITTED PLANS

Capacity ratings (cont)



Sound Ratings Table

48/50FC UNIT	COOLING STAGES	OUTDOOR SOUND (dB) at 60 Hz ^{a,b}								
		A-Weighted ^c	63	125	250	500	1000	2000	4000	8000
**04	1	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
**05	1	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
**06	1	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3
*M07	2	79	85.6	84.7	80.5	76.0	72.4	68.0	62.8	59.3

NOTE(S):

- Outdoor sound data is measured in accordance with AHRI.
- Measurements are expressed in terms of sound power. Do not compare these values to sound pressure values because sound pressure depends on specific environmental factors which normally do not match individual applications. Sound power values are independent of the environment and therefore more accurate.
- A-weighted sound ratings filter out very high and very low frequencies, to better approximate the response of "average" human ear. A-weighted measurements for Carrier units are taken in accordance with AHRI.

LEGEND

db — Decibel

Minimum - Maximum Airflow Ratings (cfm) — Natural Gas and Propane

VOLTAGE	UNIT	HEAT LEVEL	COOLING				HEATING ^a	
			Minimum Airflow cfm	Minimum 2-Speed Airflow (Low Speed)	Minimum 2-Speed Airflow (High Speed)	Maximum Airflow cfm	Minimum Airflow cfm	Maximum Airflow cfm
1 phase	48FC**04	LOW	900	—	—	1500	890	1950
		MED					800	1520
		HIGH					—	—
	48FC**05	LOW	1200	—	—	2000	890	2440
		MED					1050	2280
		HIGH					1220	2170
	48FC**06	LOW	1500	—	—	2500	890	3250
		MED					1050	2730
		HIGH					1220	2790
3 phase	48FC**04	LOW	900	—	—	1500	910	2010
		MED					960	1160
		HIGH					—	—
	48FC**05	LOW	1200	—	—	2000	910	2010
		MED					1250	2330
		HIGH					1390	2220
	48FC**06	LOW	1500	—	—	2500	910	2510
		MED					1250	2720
		HIGH					1390	2780
	48FC**07	LOW	1800	1200	1800	3000	910	3350
		MED					1250	3260
		HIGH					1390	3170

NOTE(S):

- Heating rating values are identical for aluminum heat exchangers and stainless steel heat exchangers.

Minimum - Maximum Airflow Ratings (cfm) — Cooling Units and Accessory Electric Heat

UNIT	COOLING				ELECTRIC HEAT ^a	
	Minimum Airflow cfm	Minimum 2-Speed Airflow (Low Speed)	Minimum 2-Speed Airflow (High Speed)	Maximum Airflow cfm	Minimum Airflow cfm	Maximum Airflow cfm
50FC-*04	900	—	—	1500	900	1500
50FC-*05	1200	—	—	2000	1200	2000
50FC-*06	1500	—	—	2500	1500	2500
50FC-*07	1800	1200	1800	3000	1800	3000

NOTE(S):

- Electric heat modules are available as field-installed accessories for 50FC units.

ATTACHMENT 1 - RESUBMITTED PLANS

Physical data (cont)



48/50FC 4 Ton Physical Data

48/50FC UNIT	48/50FC*A05	48/50FC*B05	48/50FC*C05
NOMINAL TONS	4	4	4
BASE UNIT OPERATING WT (lb) 48FC/50FC ^a	482/437	482/437	482/437
REFRIGERATION SYSTEM			
No. Circuits/No. Compressors/Type	1 / 1/ Scroll	1 / 1/ Scroll	1 / 1/ Scroll
Puron® (R-410A) Charge A/B (lb-oz)	9-14	—	8-9.6
Humidi-MiZer® Puron (R-410A) Charge A/B (lb-oz)	—	14-6	—
Metering Device	Acutrol	Acutrol	Acutrol
Humidi-MiZer Metering Device	—	TXV-Acutrol	—
High-Pressure Trip/Reset (psig)	630/505	630/505	630/505
Low-Pressure Trip/Reset (psig)	54/117	27/44	54/117
EVAPORATOR COIL			
Material (Tube/Fin)	Cu/Al	Cu/Al	Cu/Al
Coil Type	3/8 in. RTPF	3/8 in. RTPF	3/8 in. RTPF
Rows/FPI	3/15	3/15	3/15
Total Face Area (ft ²)	5.5	5.5	5.5
Condensate Drain Connection Size	3/4 in.	3/4 in.	3/4 in.
CONDENSER COIL			
Material	Cu/Al	Cu/Al	Cu/Al
Coil Type	5/16 in. RTPF	5/16 in. RTPF	5/16 in. RTPF
Rows/FPI	2/18	2/18	2/18
Total Face Area (ft ²)	15.9	15.9	15.9
HUMIDI-MIZER COIL			
Material	—	Cu/Al	—
Coil Type	—	3/8 in. RTPF	—
Rows/FPI	—	2/17	—
Total Face Area (ft ²)	—	4.1	—
EVAPORATOR FAN AND MOTOR			
Standard Static 1 Phase			
Motor Qty/Drive Type	—	—	1/Direct
Maximum Cont Bhp	—	—	0.72
Rpm Range	—	—	190-1900
Fan Qty/Type	—	—	1/Vane Axial
Fan Diameter (in.)	—	—	16.6
Medium Static 1 Phase			
Motor Qty/Drive Type	—	—	1/Direct
Maximum Cont Bhp	—	—	1.06
Rpm Range	—	—	217-2170
Fan Qty/Type	—	—	1/Vane Axial
Fan Diameter (in.)	—	—	16.6
High Static 1 Phase			
Motor Qty/Drive Type	—	—	1/Direct
Maximum Cont Bhp	—	—	1.53
Rpm Range	—	—	246-2460
Fan Qty/Type	—	—	1/Vane Axial
Fan Diameter (in.)	—	—	16.6
Standard Static 3 Phase			
Motor Qty/Drive Type	1/Direct	1/Direct	—
Maximum Cont Bhp	0.72	0.72	—
Rpm Range	190-1900	190-1900	—
Fan Qty/Type	1/Vane Axial	1/Vane Axial	—
Fan Diameter (in.)	16.6	16.6	—
Medium Static 3 Phase			
Motor Qty/Drive Type	1/Direct	1/Direct	—
Maximum Cont Bhp	1.06	1.06	—
Rpm Range	217-2170	217-2170	—
Fan Qty/Type	1/Vane Axial	1/Vane Axial	—
Fan Diameter (in.)	16.6	16.6	—

ATTACHMENT 1 - RESUBMITTED PLANS

Physical data (cont)



48/50FC 4 Ton Physical Data (cont)

48/50FC UNIT	48/50FC*A05	48/50FC*B05	48/50FC*C05
High Static 3 Phase			
Motor Qty/Drive Type	1/Direct	1/Direct	—
Maximum Cont Bhp	1.96	1.96	—
Rpm Range	266-2660	266-2660	—
Fan Qty/Type	1/Vane Axial	1/Vane Axial	—
Fan Diameter (in.)	16.6	16.6	—
CONDENSER FAN AND MOTOR			
Qty / Motor Drive Type	1 / Direct	1 / Direct	1 / Direct
Motor HP/Rpm	1/4 / 1100	1/4 / 1100	1/4 / 1100
Fan Diameter (in.)	23	23	23
FILTERS			
RA Filter Qty / Size (in.)	2 / 16 x 25 x 2	2 / 16 x 25 x 2	2 / 16 x 25 x 2
OA Inlet Screen Qty / Size (in.)	1 / 20 x 24 x 1	1 / 20 x 24 x 1	1 / 20 x 24 x 1

NOTE(S):

- a. Base unit operating weight does not include weight of options.

ATTACHMENT 1 - RESUBMITTED PLANS

Base unit dimensions (cont)

50FC-04-07 Base Unit Dimensions

NOTES:

1. DIMENSIONS ARE IN INCHES. DIMENSIONS IN [] ARE IN MILLIMETERS.
2. CENTER OF GRAVITY
3. DIRECTION OF AIR FLOW
4. ALL VIEW DRAWN USING 3RD ANGLE

UNIT	J	K
50FC-04	33 3/8 [847]	18 5/8 [472]
50FC-05	33 3/8 [847]	14 7/8 [377]
50FC-06	33 3/8 [847]	14 7/8 [377]
50FC-07	41 3/8 [1051]	18 5/8 [472]

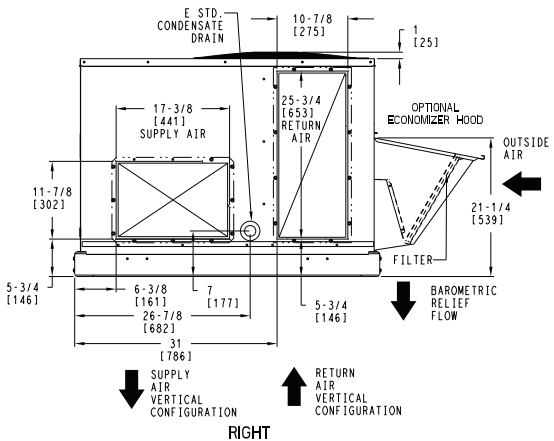
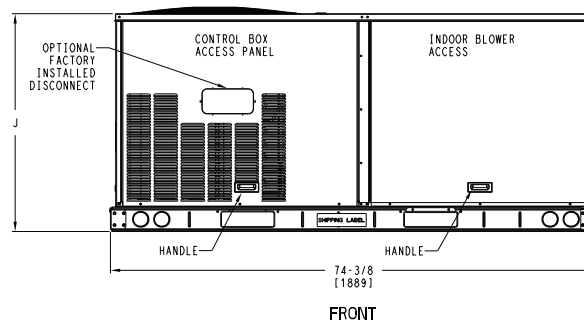
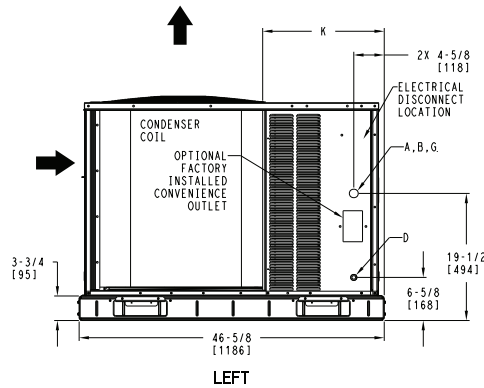
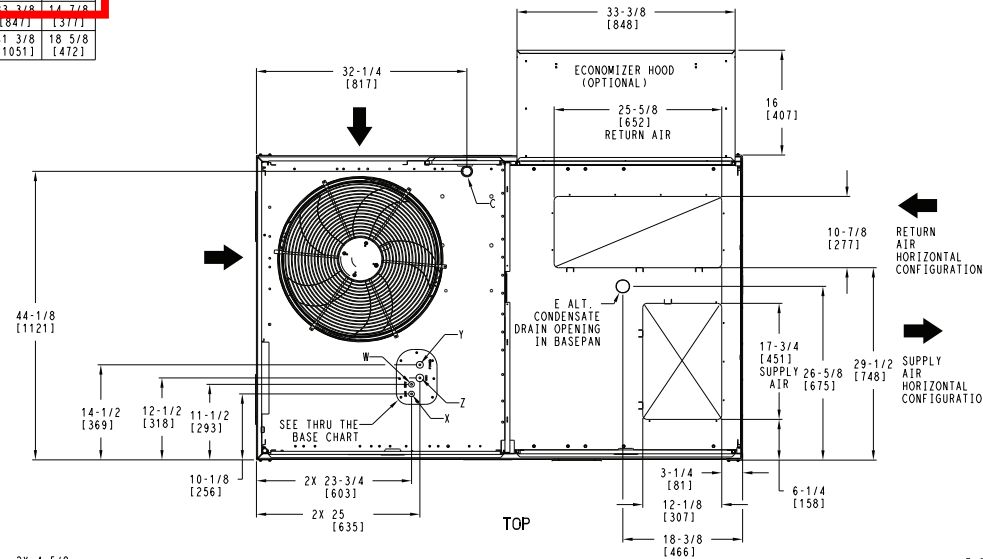


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CONNECTION SIZES	
A	1 3/8" [35] DIA FIELD POWER SUPPLY HOLE
B	2" [51] DIA POWER SUPPLY KNOCKOUT
C	1 3/4" [44] DIA GAUGE ACCESS PLUG
D	7/8" [22] DIA FIELD CONTROL WIRING HOLE
E	3/4"-14 NPT CONDENSATE DRAIN
G	2 1/2" [64] DIA POWER SUPPLY KNOCK-OUT

THRU-THE-BASE CHART THESE HOLES REQUIRED FOR USE CRBTMPW008A00, 009A00			
	THREADED CONDUIT SIZE	WIRE USE	REQ'D HOLE SIZES (MAX.)
W	1/2"	115V	7/8" [22.2]
X	1/2"	24V	7/8" [22.2]
Y *	3/4"	POWER	1 1/8" [28.6]
Z **	(009A00) 1/2" FPT	GAS	1 1/8" [28.6]
FOR "THRU-THE-BASEPAN" FACTORY OPTION, FITTINGS FOR ONLY X, Y, & Z ARE PROVIDED			
* SELECT EITHER 3/4" OR 1/2" FOR POWER, DEPENDING ON WIRE SIZE			
** (008A00) PROVIDES 3/4" FPT THRU CURB FLANGE & FITTING.			



ITC CLASSIFICATION	SHEET	DATE	SUPERCEDES	50FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TC003094	REV
U.S. ECCN:NSR	1 OF 3	04/02/19	10/25/18			C



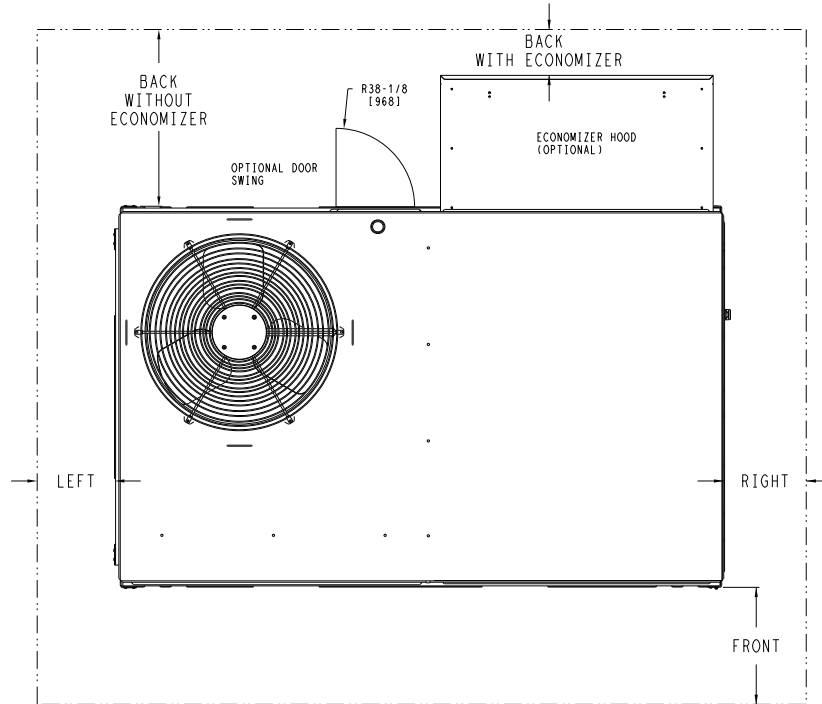
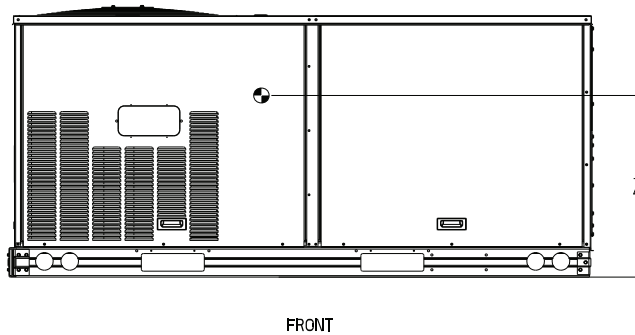
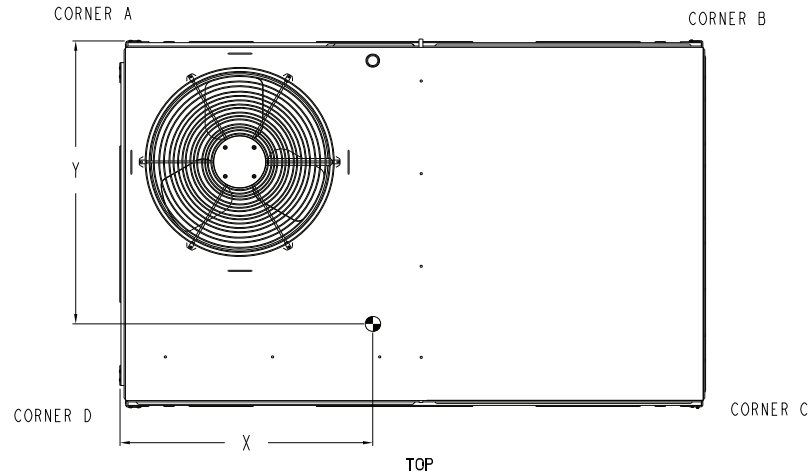
ATTACHMENT 1 - RESUBMITTED PLANS

28

50FC-04-07 Base Unit Dimensions (cont)

UNIT	STD. UNIT WEIGHT*		CORNER WEIGHT (A)		CORNER WEIGHT (B)		CORNER WEIGHT (C)		CORNER WEIGHT (D)		C.G.		HEIGHT
	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	LBS.	KG.	X	Y	
50FC-04	437	198	110	50	107	49	108	49	112	51	36 5/8 [930]	23 9/16 [598]	18 1/2 [470]
50FC-05	498	226	136	62	124	56	114	52	125	57	35 1/2 [902]	22 3/8 [568]	18 1/4 [464]
50FC-06	511	232	139	63	127	58	117	53	128	58	35 1/2 [902]	22 3/8 [568]	18 1/4 [464]
50FC-07	562	255	154	70	137	62	127	58	143	65	35 [889]	22 1/2 [572]	19 1/2 [495]

* STANDARD UNIT WEIGHT IS WITHOUT ELECTRIC HEAT AND WITHOUT PACKAGING.
FOR OTHER OPTIONS AND ACCESSORIES, REFER TO THE PRODUCT DATA CATALOG.



NOTE:

1. FOR ALL MINIMUM CLEARANCES LOCAL CODES OR JURISDICTIONS MAY PREVAIL.

	CLEARANCE		
	SERVICE WITH: CONDUCTIVE BARRIER	SERVICE WITH: NONCONDUCTIVE BARRIER	OPERATING CLEARANCE
SURFACE			
FRONT	48 [1219mm]	36 [914mm]	18 [457mm]
LEFT	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/O HOOD	48 [1219mm]	42 [1067mm]	18 [457mm]
BACK W/ HOOD	36 [914mm]	36 [914mm]	18 [457mm]
RIGHT	36 [914mm]	36 [914mm]	18 [457mm]
TOP	72 [1829mm]	72 [1829mm]	72 [1829mm]

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 2 OF 3	DATE 04/02/19	SUPERCEDES 10/25/18	50FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TC003094	REV C
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Base unit dimensions (cont)



ATTACHMENT 1 - RESUBMITTED PLANS

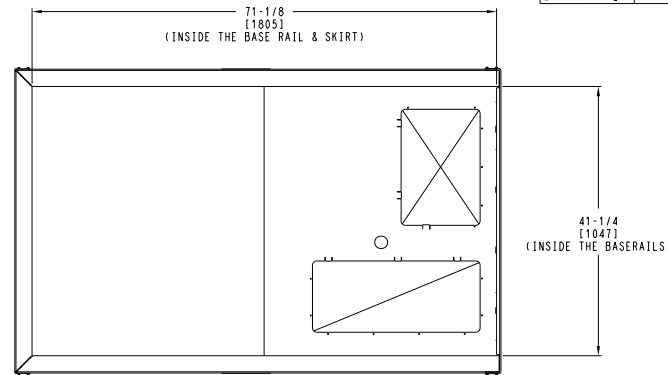
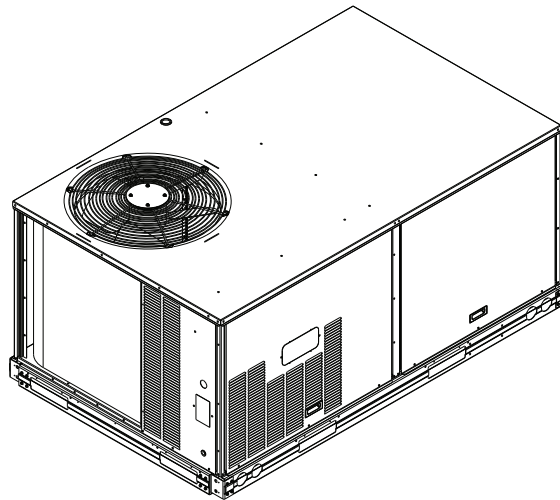
Base unit dimensions (cont)

50FC-04-07 Base Unit Dimensions (cont)

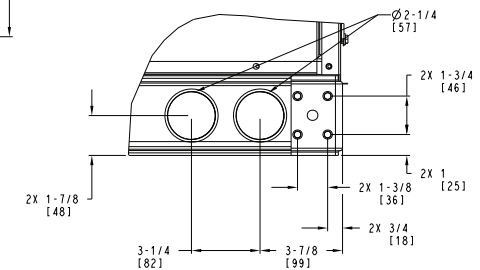


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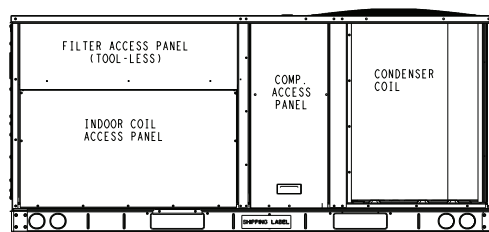
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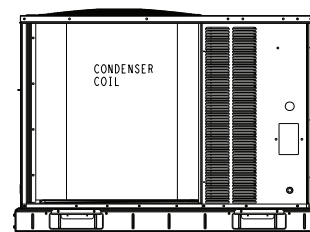
INSIDE BASERAIL DIMENSIONS
BOTTOM



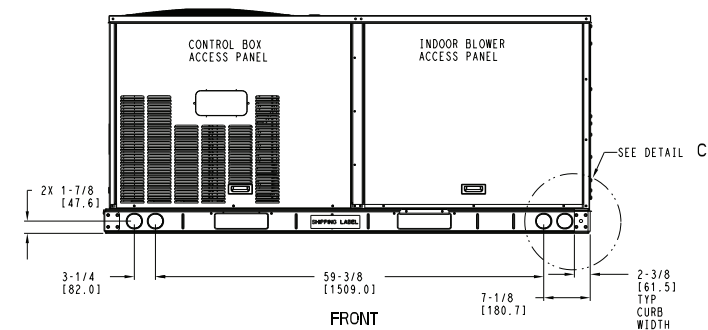
DETAIL C
TYP 4 PLCS



BACK



LEFT



FRONT

ITC CLASSIFICATION U.S. ECCN:NSR	SHEET 3 OF 3	DATE 04/02/19	SUPERCEDES 10/25/18	50FC 04-07 SINGLE PACKAGE ELECTRICAL COOLING WITH ELECTRIC HEAT	48TC003094	REV C
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ATTACHMENT 1 - RESUBMITTED PLANS

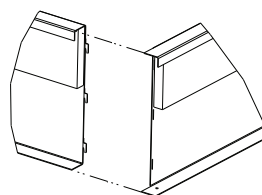
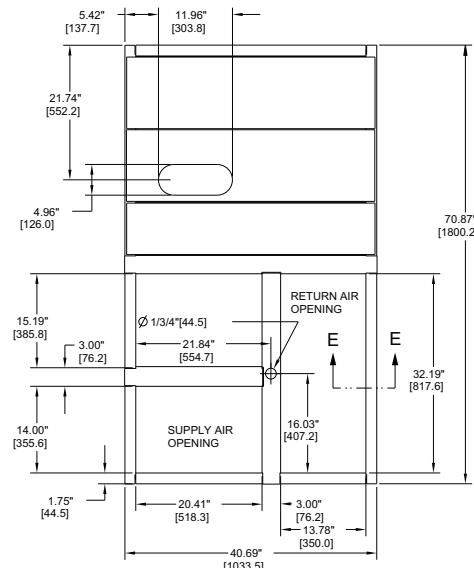
30

Roof Curb Dimensions — 48/50FC 04-07

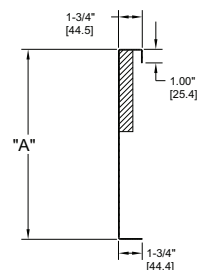
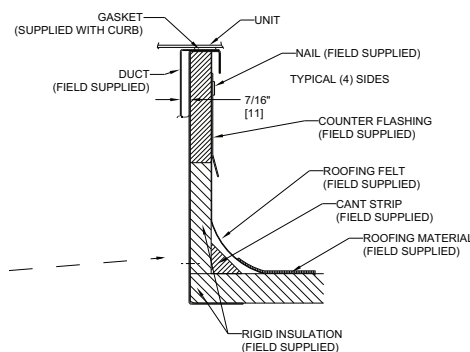
ROOF CURB ACCESSORY #	A
CRRFCURB001A01	14" [356]
CRRFCURB002A01	24" [610]

- NOTES:
1. ROOFCURB ACCESSORY IS SHIPPED DISASSEMBLED.
 2. INSULATED PANELS: 25.4 [1"] THK. POLYURETHANE FOAM, 44.5 [1-3/4] # DENSITY.
 3. DIMENSIONS IN [] ARE IN MILLIMETERS.
 4. ROOFCURB: 18 GAGE STEEL.
 5. ATTACH DUCTWORK TO CURB. (FLANGES OF DUCT REST ON CURB).
 6. SERVICE CLEARANCE 4 FEET ON EACH SIDE.
 7. DIRECTION OF AIR FLOW.
 8. CONNECTOR PACKAGE CRBTMPWR001A01 IS FOR THRU-THE-CURB GAS TYPE PACKAGE CRBTMPWR003A01 IS FOR THRU-THE-BOTTOM TYPE GAS CONNECTIONS.

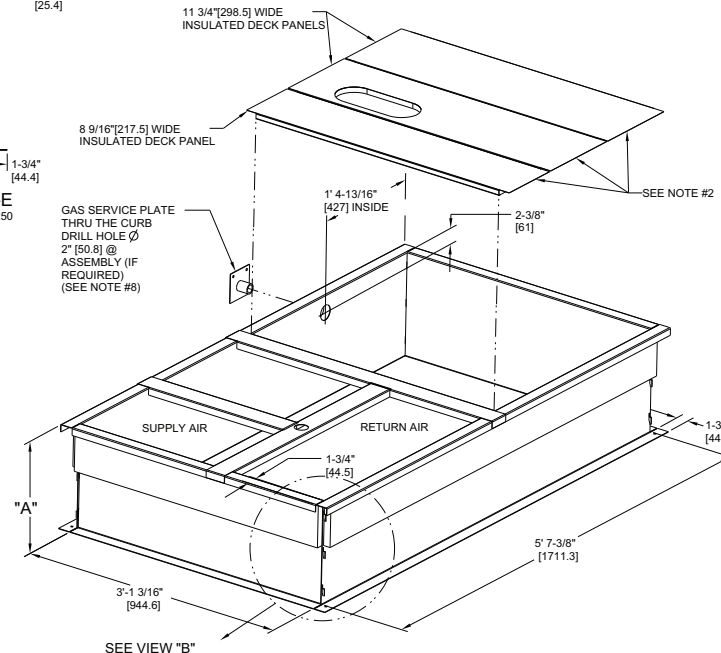
CONNECTOR PKG. ACC.	GAS CONNECTION TYPE	GAS FITTING	POWER WIRING FITTING	CONTROL WIRING FITTING	ACCESSORY CONVENIENCE OUTLET WIRING CONNECTOR
CRBTMPWR001A01	THRU THE CURB	3/4" [19] NPT	3/4" [19] NPT	1/2" [12.7] NPT	1/2" [12.7] NPT
CRBTMPWR003A01	THRU THE BOTTOM	1/2" [12.7] NPT			



VIEW "B"
CORNER DETAIL



SECTION E-E
SCALE 0.250



CERTIFIED DRAWING

DRAWING RELEASE LEVEL: PRODUCTION		TITLE: CURB ASY, ROOF	
THIRD ANGLE PROJECTION	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ON:	SIZE	DRAWING NUMBER
	1 DEC ±.1 2 DEC ±.05 3 DEC ±.02 ANG ±.5°	D	48TC400427
MATERIAL	AUTHORIZATION NUMBER: 1041738	REV	B
ENGINEERING REQUIREMENTS	ENGINEERING: T-005, Y-002	SHEET 5 OF 5	
WEIGHT	DRAFTER: MMC 06/17/11	DISTRIBUTION: MMC	
SURFACE FINISH	CHECKER: MMC	NEXT DRAWING: N/A	
MFG/PURCH	MODEL (INTERNAL USE ONLY)		

REV	REVISION RECORD	DATE	BY	CHKD	APPD	ECN NO.
A	OVERALL DIM. 5'-7 3/8" WAS 5'-7 7/8; 18GA MATERIAL WA 16 GA.; NAIL FIELD SUPPLIED WAS WITH CURB	04/22/13	MMC	-	-	1067898

Accessory dimensions



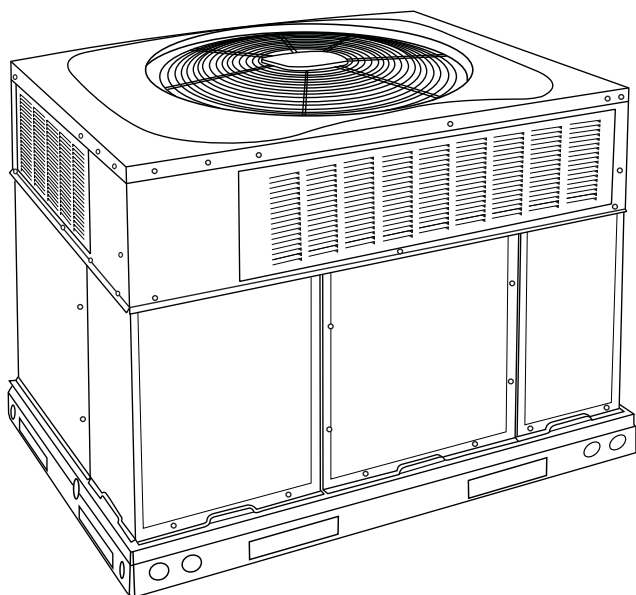
50VG-A

**PERFORMANCE™ 16 SEER 2-STAGE PACKAGED
AIR CONDITIONER SYSTEM WITH PURON® (R-410A)
REFRIGERANT
SINGLE AND THREE PHASE
2 TO 5 NOMINAL TONS (SIZES 24-60)**



Turn to the experts

Product Data



A09033

Fig. 1 - Unit 50VG

Single-Packaged Products with Energy-Saving Features and Puron® refrigerant.

- 15.0-16.0 SEER / 12.0-12.5 EER
- Factory-Installed TXV
- Multi-speed ECM Blower Motor - Standard
- Sound levels as low as 72dBA
- Two Stages of Cooling
- Dehumidification Feature
- Cabinet air leakage of 2.0% or less at .5 in. W.C. when tested in accordance with ASHRAE standard 193. (Low leak FIOP models only.)

FEATURES/BENEFITS

One-piece cooling unit with optional electric heater, low sound levels, easy installation, low maintenance, and dependable performance.

Puron Environmentally Sound Refrigerant is Carrier's unique refrigerant designed to help protect the environment. Puron is an HFC refrigerant which does not contain chlorine that can harm the ozone layer. Puron refrigerant is in service in millions of systems proving highly reliable, environmentally sound performance.

Easy Installation

Factory-assembled package is a compact, fully self-contained, electric cooling unit that is prewired, pre-piped, and pre-charged for minimum installation expense. These units are available in a variety of standard cooling sizes with voltage options to meet residential and light commercial requirements. Units are lightweight and install easily on a rooftop or at ground level. The high tech composite base eliminates rust problems associated with ground level applications.

Innovative Unit Base Design

On the inside a high-tech composite material will not rust and incorporates a sloped drain pan which improves drainage and helps inhibit mold, algae and bacterial growth. On the outside metal base rails provide added stability as well as easier handling and rigging.

Convertible duct configuration

Unit is designed for use in either downflow or horizontal applications. Each unit is converted from horizontal to downflow and includes horizontal duct covers. Downflow operation is provided in the field to allow vertical ductwork connections. The basepan seals on the bottom openings to ensure a positive seal in the vertical airflow mode.

Efficient operation High-efficiency design offers SEER (Seasonal Energy Efficiency Ratios) of up to 16.0. (See page 4.)

Durable, dependable components

Scroll Compressors have 2 stages of cooling and are designed for high efficiency. Each compressor is hermetically sealed against contamination to help promote longer life and dependable operation. Each compressor also has vibration isolation to provide quieter operation. All compressors have internal high pressure and overcurrent protection.

Multi-speed ECM Blower Motor is standard on all 50VG.

Direct-drive PSC (Permanent Split Capacitor) condenser-fan motors are designed to help reduce energy consumption and provide for cooling operation down to 40°F (4.4°C) outdoor temperature. Motormaster® II low ambient kit is available as a field-installed accessory.

Thermostatic Expansion Valve - A hard shutoff, balance port TXV maintains a constant superheat at the evaporator exit (cooling cycle) resulting in higher overall system efficiency.

Refrigerant system is designed to provide dependability. Liquid filter driers are used to promote clean, unrestricted operation. Each unit leaves the factory with a full refrigerant charge. Refrigerant service connections make checking operating pressures easier.

High and Low Pressure Switches provide added reliability for the compressor.

Indoor and Outdoor coils are computer-designed for optimum heat transfer and efficiency. The indoor coil is fabricated from copper tube and aluminum fins and is located inside the unit for protection against damage. The outdoor coil is internally mounted on the top tier of the unit.

Low sound ratings ensure a quiet indoor and outdoor environment with sound ratings as low as 72dBA. (See Page 4.)

Easy to service cabinets provide easy 3 panel accessibility to serviceable components during maintenance and installation. The basepan with integrated drain pan provides easy ground level installation with a mounting pad. A nesting feature ensures a positive basepan to roof curb seal when the unit is roof mounted. A convenient 3/4-in. (19.05 mm) wide perimeter flange makes frame mounting on a rooftop easy.

ATTACHMENT 1 - RESUBMITTED PLANS

50VG

UNIT DIMENSIONS - 50VG 36-60

UNIT	ELECTRICAL CHARACTERISTICS	UNIT WT.		UNIT HEIGHT IN/MM		CENTER OF GRAVITY IN/MM					
		LB	KG	"A"		X		Y		Z	
50VG-A36---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	389	176.4	44-3/4	1137	20-1/4	514.4	17-1/2	444.5	17-5/8	447.7
50VG-A42---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	392	177.8	44-3/4	1137	20-1/4	514.4	17-1/2	444.5	17-5/8	447.7
50VG-A48---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	444	201.4	50-3/4	1289	20-1/4	514.4	17-1/2	444.5	17-5/8	447.7
50VG-A60---(3/5/6)0	208/230-1, 208/230-3-60, 460-3	464	210.5	52-3/4	1340	20-1/4	514.4	17-1/2	444.5	18	457.2

UNIT	VOLTAGE	CORNER WEIGHTS LB/KG							
		"1"		"2"		"3"		"4"	
50VG-A36---(3/5/6)0	208/230/460	46.7	26.5	62.2	35.3	93.4	52.9	155.6	61.8
50VG-A42---(3/5/6)0	208/230/460	47.0	26.7	62.7	35.6	94.1	53.3	156.8	62.2
50VG-A48---(3/5/6)0	208/230/460	53.3	30.2	71.0	40.3	106.6	60.4	177.6	70.5
50VG-A60---(3/5/6)0	208/230/460	55.7	31.6	74.2	42.1	111.4	63.1	185.6	73.7

NOTE: ALL TABLE DATA RELEVANT FOR ALL FACTORY INSTALLED OPTIONS EXCEPT ECONOMIZER

REQUIRED CLEARANCES TO COMBUSTIBLE MATL.

	INCHES [MM]
TOP OF UNIT.....	14 [355.6]
DUCT SIDE OF UNIT.....	2 [50.8]
SIDE OPPOSITE DUCTS.....	14 [355.6]
BOTTOM OF UNIT.....	0 [0.0]
ELECTRICAL PANEL.....	36 [914.4]

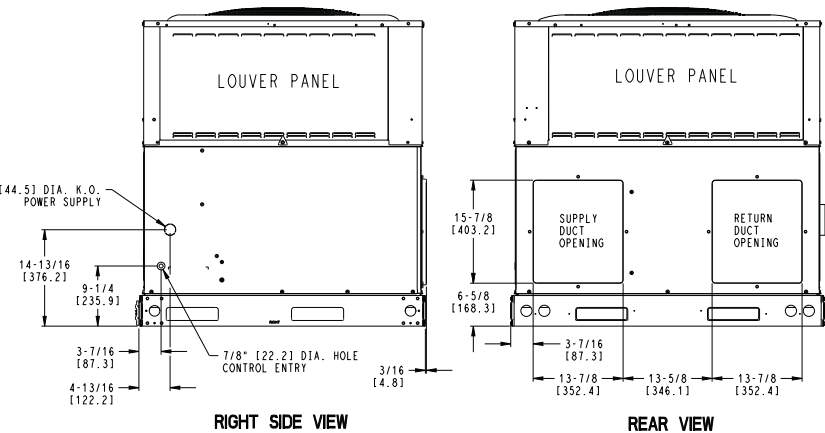
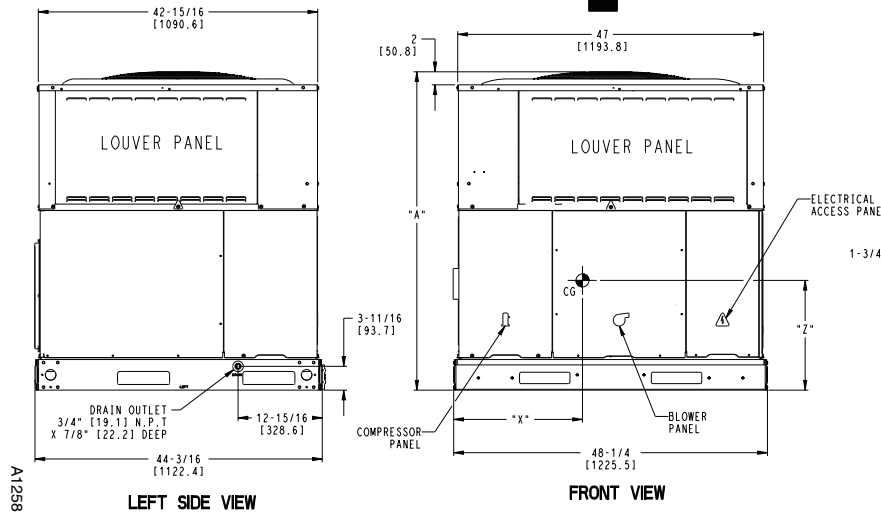
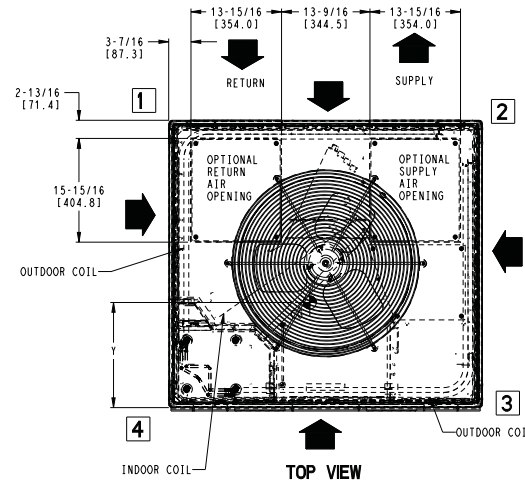
NEC. REQUIRED CLEARANCES.

	INCHES [MM]
BETWEEN UNITS, POWER ENTRY SIDE.....	42 [1066.8]
UNIT AND UNGROUNDED SURFACES, POWER ENTRY SIDE.....	36 [914.0]
UNIT AND BLOCK OR CONCRETE WALLS AND OTHER GROUNDED SURFACES, POWER ENTRY SIDE.....	42 [1066.8]

REQUIRED CLEARANCE FOR OPERATION AND SERVICING

	INCHES [MM]
EVAP. COIL ACCESS SIDE.....	36 [914.0]
POWER ENTRY SIDE.....	42 [1066.8]
(EXCEPT FOR NEC REQUIREMENTS)	
UNIT TOP.....	48 [1219.2]
SIDE OPPOSITE DUCTS.....	36 [914.0]
DUCT PANEL.....	12 [304.8]

*MINIMUM DISTANCES: IF UNIT IS PLACED LESS THAN 12 [304.8] FROM WALL SYSTEM, THEN SYSTEM PERFORMANCE MAYBE COMPROMISED. DIMENSIONS IN [] ARE IN MM



50VG500075 REV A

ATTACHMENT 1 - RESUBMITTED PLANS



July 15th, 2024

Dear Jonathan Steele,

This letter of compliance approves the plans that were presented to the Palmetto Pointe Business Center Horizontal Property Regime Architectural Review Board of the Board of Directors on July 3, 2024. Your building plans as presented have been approved.

If you have any questions, please do not hesitate to contact me. Thank you for the opportunity to serve you and your association!

Sincerely,

Kent Eddy
Atlantic States Management

Mailing
PO Drawer 5
Hilton Head Island, SC 29938

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