DIFFUSER, GRILLE, AND REGISTER SCHEDULE

CALLOUT	DESCRIPTION	FACE SIZE (IN)	INLET SIZE (IN)	NOISE CRITERIA @ MAX CFM	MODEL
RS1818	EGGCRATE GRILLE	18x18	18x18	25	TITUS 50F
SCP06	SUPPLY CEILING PLAQUE DIFFUSER	24x24	6Ø	25	TITUS OMNI
SR08	SUPPLY ROUND CEILING	16Ø	8Ø	25	TITUS TMR-AA
SS0804	DOUBLE DEFLECTION SUPPLY	10x6	8x4	25	TITUS 300FS
SSD0906	DRUM LOUVER	11x8	9x6	30	TITUS DL
SSD1806	DRUM LOUVER	20x8	18x6	30	TITUS DL

A. AIR DEVICE (I.E. DIFFUSERS, REGISTERS AND GRILLES) COLOR SELECTION SHALL BE MADE BY ARCHITECT. CONTRACTOR SHALL SUBMIT COLOR/FINISH CHARTS FOR ARCHITECTURAL REVIEW AND SELECTION.
B. THE CONTRACTOR SHALL COORDINATE AIR DEVICE FRAME AND/OR SUSPENSION TYPE WITH THE ARCHITECTURAL REFLECTED CEILING PLAN.

SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT						HEATING										COMBINED COOLING CAPACITIES							REMARKS									
MARK	SERVES	TOTAL S.A. (CFM)	O.A. (CFM)	E.S.P. (IN WG)	MOTOR (hp)	GAS TYPE	EFF. AFUE	GAS IN (BTUH)	GAS OUT (BTUH)	CARRIER FURNACE BASIS OF DESIGN	CARRIER COIL BASIS OF DESIGN	MIN. SEER	REFR.	CARRIER BASIS OF DESIGN	NOMINAL TONNAGE	TOTAL (MBH)	SENS (MBH)	LAT (MBH)	Ent. Tdb (°F)	Ent. Twb (°F)	Lvg. Tdb (°F)	Lvg. Twb (°F)	1	2	3	4	5	6	7	8	9	10
FURN-1 / CU-1	STORAGE	1,200	200	0.50	1/2 ECM	NATURAL	92%	40,000	37,000	59SC2C040S17--12	CNPVP3717AL	15.0	R-410A	24ACC436	3.0	37.9	27.7	10.3	78.2	65.8	56.0	55.0	X	X		X	X	X	X	X	X	
FURN-2 / CU-2	STORAGE	1,400	115	0.50	1/2 ECM	NATURAL	92%	60,000	56,000	59SC2C060S17--16	CNPVP4217AL	15.0	R-410A	24ACC442	3.5	40.2	30.0	10.2	76.6	64.9	56.0	55.0	X	X		X	X	X	X	X	X	
FURN-3 / CU-3	STORAGE	1,990	175	0.50	3/4 ECM	NATURAL	92%	80,000	75,000	59SC2C080S21--20	CNPVP6124AL	14.0	R-410A	24ACC460	5.0	57.6	42.9	14.7	76.7	64.9	56.0	55.0	X	X		X	X	X	X	X	X	X
FURN-4 / CU-4	STORAGE	1,990	140	0.50	3/4 ECM	NATURAL	92%	80,000	75,000	59SC2C080S21--20	CNPVP6124AL	14.0	R-410A	24ACC460	5.0	61.6	44.3	17.3	76.3	64.8	56.0	54.0	X	X		X	X	X	X	X	X	X
FURN-5 / CU-5	OFFICE	1,000	200	0.50	1/2 ECM	NATURAL	92%	40,000	37,000	59SC2C040S17--12	CNPVP3117AL	15.5	R-410A	24ACC430	2.5	32.7	23.7	9.1	78.8	66.2	56.0	55.0	X	X	X	X	X	X	X	X	X	

NOTES (APPLY TO ALL):
A. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS.
B. SUBMITTED UNIT CAPACITIES SHOULD BE WITHIN +/- 10% OF SCHEDULED CAPACITIES.
C. BASIS OF DESIGN: CARRIER. SEE SPECIFICATIONS.
ACCEPTABLE ALTERNATES: JCI/YORK, TRANE, DAIKIN/MCQUAY, LENNOX
D. ALL EVAPORATORS AND COOLING COILS LOCATED ABOVE THE LOWEST LEVEL FINISHED FLOOR SHALL BE INSTALLED WITH AN AUXILIARY CONDENSATE DRAIN PAN UNDER THE UNIT. PROVIDE AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER IN THE AUXILIARY DRAIN PAN.
E. AS AN ALTERNATIVE TO THE AUXILIARY CONDENSATE DRAIN PAN, AN ELECTRONIC WATER LEVEL DETECTOR WIRED TO SHUTDOWN THE UNIT UPON DETECTION OF WATER MAY BE INSTALLED IN TH EPRIMARY DRAIN LINE, THE OVERFLOW DRAIN LINE OR THE EQUIPMENT SUPPLIED DRAIN PAN. THE WATER LEVEL DETECTOR SHALL BE LOCATED AT A POINT HIGHER THAN TH EPRIMARY DRAIN LINE CONNECTION AND BELOW THE OVERFLOW RIM OF SUCH PAN.

REMARKS (APPLY AS SCHEDULED):
1. PROGRAMMABLE THERMOSTAT.
2. 2-PIPE DIRECT VENTING KIT. PROVIDE CONCENTRIC TERMINATION AT ROOF OR WALL; REFER TO FLOOR [illegible] VENT SIZE, MATERIAL AND TERMINATION SHALL BE PER MANUFACTURER'S REQUIREMENTS.
3. LOW AMBIENT PACKAGE.
4. DISPOSABLE FILTER.
5. ANTI-SHORT CYCLE TIMER.
6. INDOOR FAN DELAY KIT.
7. DISCONNECT SWITCH PROVIDED BY ELECTRICAL SUBCONTRA[illegible] BOTH THE INDO[illegible]UTDOOR UNIT. REFER TO THE ELECTRICAL DOCUMENTS.
8. MOUNT OUTDOOR CONDENSING UNIT ON ROO[illegible]EFER TO ROOFTOP CONDENSING UNIT DETAIL.
9. CONDENSATE PUMP. PUM[illegible]AY BE OMI[illegible] WHERE [illegible]AVI[illegible] POSSIBLE.
10. FIELD PROVIDED FAMCO ZIP ECONOMIZ[illegible] REFER TO [illegible]RTICAL FURNACE WITH ECONOMIZER" DETAIL.

COMcheck Software Version 4.1.1.0
Mechanical Compliance Certificate

Project Information

Energy Code:	90.1 (2013) Standard
Project Title:	Life Storage Facility #357
Location:	Montgomery, Alabama
Climate Zone:	3a
Project Type:	New Construction

Construction Site: 115 S. Arrowhead Dr. Montgomery, AL 36117
Owner/Agent:
Designer/Contractor: STINARD ARCHITECTURE INC 217 SOUTH ERWIN STREET CARTERSVILLE, GA 30120 7704257400

Mechanical Systems List

Quantity System Type & Description

1 2.5 TON FURN (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 37 kBtu/h
Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Split System, Capacity = 33 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 15.50 SEER, Required Efficiency: 13.00 SEER
Fan System: 2.5 TON FAN -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 1 Supply, Constant Volume, 1000 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade

1 3 TON FURN (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 37 kBtu/h
Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Split System, Capacity = 38 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 15.00 SEER, Required Efficiency: 13.00 SEER
Fan System: 3 TON FAN -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 2 Supply, Constant Volume, 1200 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade

1 3.5 TON FURN (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 56 kBtu/h
Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Split System, Capacity = 40 kBtu/h, Air-Cooled Condenser
Proposed Efficiency = 15.00 SEER, Required Efficiency: 13.00 SEER
Fan System: 3.5 TON FAN -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 3 Supply, Constant Volume, 1400 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade

2 5 TON FURN (Single Zone):
Heating: 1 each - Central Furnace, Gas, Capacity = 75 kBtu/h
Proposed Efficiency = 92.00% Et, Required Efficiency: 80.00 % Et (or 78% AFUE)
Cooling: 1 each - Split System, Capacity = 60 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 14.00 SEER, Required Efficiency: 13.00 SEER
Fan System: 3.5 TON FAN -- Compliance (Motor nameplate HP method) : Passes
Fans:
FAN 3 Supply, Constant Volume, 1400 CFM, 0.5 motor nameplate hp, 0.0 fan efficiency grade

Project Title: Life Storage Facility #357 Report date: 04/30/19
Data filename: P:\118\118575 LS Montgomery AL\118575 M ComCheck.cck Page 1 of 12

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 90.1 (2013) Standard requirements in COMcheck Version 4.1.1.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Jennifer Duchac - PE [signature] 04/30/2019
Name - Title Signature Date

Project Title: Life Storage Facility #357 Report date: 04/30/19
Data filename: P:\118\118575 LS Montgomery AL\118575 M ComCheck.cck Page 2 of 12

COMcheck Software Version 4.1.1.0
Inspection Checklist

Energy Code: 90.1 (2013) Standard
Requirements: 100.0% were addressed directly in the COMcheck software
Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 6.4.4.2.1, 6.7.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical systems and equipment and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [PR6][2]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be [illegible]
6.7.2.4 [PR5][1]	Detailed instructions for HVAC systems commissioning included [illegible] the plans or specifications for projects >=50,000 ft2.	☐Complies ☐[illegible]oes Not ☐[illegible]bservable ☐[illegible]able	[illegible]ment [illegible] be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Project Title: Life Storage Facility #357 Report date: 04/30/19
Data filename: P:\118\118575 LS Montgomery AL\118575 M ComCheck.cck Page 3 of 12

DUCTLESS SPLIT DIRECT EXPANSION (DX) EQUIPMENT

INDOOR UNIT						OUTDOOR UNIT				COMBINED CAPACITIES	
MARK	SERVES	TYPE	MODEL/SERIES	NOMINAL TONS	CFM	MARK	MIN. SEER	MIN HSPF	MODEL/SERIES	COOLING TOTAL (MBH)	HEATING @ 47°F (MBH)
MFCU-1	ELEVATOR MACHINE ROOM	WALL-MOUNTED, HEAT PUMP	PKA-A18HA4	1.50	320/370/425	MHP-1	15.3	9.5	PUZ-A18NHA4	18.0	19.0
MFCU-2	ELECTRICAL ROOM	WALL-MOUNTED, HEAT PUMP	PKA-A18HA4	1.50	320/370/425	MHP-2	15.3	9.5	PUZ-A18NHA4	18.0	19.0

NOTES (APPLY TO ALL):
A. BASIS OF DESIGN: MITSUBISHI. EQUAL PRODUCTS: DAIKIN, LENNOX, SAMSUNG, LG, SANYO, JCI/YORK.
B. SINGLE POWER CONNECTION AT OUTDOOR UNIT. DISCONNECT SWITCHES PROVIDED AT THE INDOOR AND OUTDOOR UNITS BY ELECTRICAL SUBCONTRACTOR. REFER TO THE ELECTRICAL DOCUMENTS.
C. R-410A REFRIGERANT.
D. FACTORY CONDENSATE PUMP OR CONDENSATE LIFT MECHANISM.
E. WALL MOUNTED WIRED REMOTE CONTROLLER.
F. INVERTER DRIVEN COMPRESSOR.
G. REFRIGERANT LINE SET TOTAL EQUIVALENT LENGTH SHALL NOT EXCEED 100 FEET. SHOULD AN ALTERNATE MANUFACTURER BE USED, CONTRACTOR SHALL COMPLY WITH ALTERNATE MANUCAFTURER LINE SET LIMITATIONS.

LOUVERS

SYMBOL	MODEL/ SERIES	SERVES	SIZE WxH (IN)	MIN FREE AREA (SQ FT)	CFM	MAX PRESS. DROP (IN WC)	OPERATOR	INTERLOCK	FRAME	REMARKS 1	2	3	4	5
WL-A	ESD-635	FURN OUTSIDE AIR	12x18	0.4	200	0.05	N/A	N/A	ALUMINUM	X	X	X		

NOTES (APPLY TO ALL):
A. FINAL COLOR SELECTION SHALL BE MADE BY ARCHITECT AT TIME OF SHOP DRAWING APPROVAL. PROVIDE COLOR/FINISH CHARTS AS PART OF SUBMITTAL.
B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY UNITED ENERTECH, ARROW, RUSKIN.

REMARKS (APPLY AS SCHEDULED):
1. BIRD SCREEN.
2. BAKED ON ENAMEL FINISH.
3. GRAVITY BACKDRAFT DAMPER.

FAN SCHEDULE

MARK	DUTY	TYPE	CFM	E.S.P. (IN WG)	MOTOR (W / hp)	DRIVE	MAX. NOISE (SONES)	CONTROL BY	BASIS OF DESIGN MODEL	REMARKS 1	2	3	4	5	6
EF-A	EXHAUST	CEILING CABINET	70	0.3	100	DIRECT	2.0	SWITCHED WITH LIGHTS	GREENHECK SP	X	X	X			

NOTES (APPLY TO ALL):
A. SEE ELECTRICAL PLANS FOR POWER CHARACTERISTICS
B. DESIGN IS BASED ON PRODUCTS BY GREENHECK. ACCEPTABLE ALTERNATES SHALL BE BY LOREN-COOK, TWIN-CITY, PENN BARRY.

REMARKS (APPLY AS SCHEDULED):
1. FAN SPEED CONTROLLER.
2. FACTORY DISCONNECT SWITCH/PLUG.
3. GRAVITY BACKDRAFT DAMPER.

ELECTRIC WALL HEATER

MARK	CFM	WATTS	HEAT (BTU/H)	BASIS OF DESIGN	REMARKS 1	2	3	4	5	6
EWH-A	100	3000	10235	QMARK AWH	X	X	X	X	X	X
EWH-1	100	1500	5120	QMARK AWH	X	X	X	X	X	

REMARKS:
1. PROVIDE WITH INTEGRAL THERMOSTAT AT UNIT TO MAINTAIN MINIMUM 45 F (ADJUSTABLE).
2. COORDINATE ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR.
3. FAN DELAY SWITCH.
4. THERMAL CUTOUT.
5. FACTORY DISCONNECT SWITCH.
6. SURFACE MOUNTING KIT.

ALABAMA LICENSED No. 30661 PROFESSIONAL ENGINEER JOHN P. KENNEY

PROFICIENT ENGINEERING
6991 Peachtree Industrial Blvd Building 700
Peachtree Corners, Georgia 30092
404.330.9798
PROJECT # 118575

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Life Storage #357
115 S. Arrowhead Dr.
Montgomery, AL 36117

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ISSUE: FOR CONSTRUCTION
REVISIONS:
1 City Comments 5-6-2019

PROJECT NUMBER 201841
DATE 4-8-2019

SHEET NUMBER
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