

COMcheck Software Version 4.1.5.5
Mechanical Compliance Certificate

Project Information

Energy Code: 2015 IECC
 Project Title: Harris Travel Center
 Location: McDonough, Georgia
 Climate Zone: 3a
 Project Type: New Construction

Construction Site: McDonough, GA
 Owner/Agent:
 Designer/Contractor: Krunal M. Patel
 Total Engineers
 159 New Street
 Macon, GA 31201
 478-741-4632
 krunalpatel@totalengineers.com

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity System Type & Description

- RTU-1 (Single Zone):
 Cooling: 1 each - Single Package DX Unit, Capacity = 59 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 17.00 SEER, Required Efficiency: 14.00 SEER
 Fan System: None
- RTU-2 (Single Zone):
 Cooling: 1 each - Single Package DX Unit, Capacity = 59 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: None
- RTU-3 (Single Zone):
 Cooling: 1 each - Single Package DX Unit, Capacity = 36 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: None
- Water Heater 1:
 Electric Instantaneous Water Heater, Capacity: 0 gallons w/ Circulation Pump
 Proposed Efficiency: 1.00 SL, %h (F = 12 kW), Required Efficiency: 1.00 SL, %h (F = 12 kW)

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 2015 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Krunal M. Patel - Mechanical Engineer
 Name: Title
 Signature
 1-5-2026
 Date

Project Title: Harris Travel Center
 Data Filename: Z:\2025\106 Hampton Travel Center - New Facility\HVAC\COMCHECK\106 - HAMPTON TRAVEL - Page 1 of 10
 Report date: 01/05/26
 CENTER.cck

ROOF TOP UNIT SCHEDULE

NOTES:

- UNIT AT 208/30 AUXILIARY HEATER AT 208/30. UNIT SHALL HAVE SINGLE POINT CONNECTION. AIR-HANDLING UNIT WITH ECM MOTOR. PROVIDE MANUFACTURER'S LOW LEAK ECONOMIZER WITH BAROMETRIC RELIEF.
- VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.
- PROVIDE AIR FILTERS AND DUCT CONNECTIONS. PROVIDE PROGRAMMABLE THERMOSTAT AND SUPP. ELEC. HEAT MODULE CONNECTED TO UNIT FOR SINGLE POINT OF CONNECTION.
- PROVIDE CONDENSATE TRAP(S) AS RECOMMENDED BY MANUFACTURER AND ROUTE CONDENSATE PIPING TO HUB DRAIN.
- PROVIDE MANUFACTURER SMOKE DETECTOR IN PACKAGE UNIT.
- VERTICLE SUPPLY AND VERTICLE RETURN UNIT. PROVIDE MERV 8 FILTER.
- UNIT SHALL HAVE MANUFACTURER'S REFRIGERANT LEAK DETECTION DISSIPATION SYSTEM.
- PROVIDE MANUFACTURER'S HUMIDI-MIZER HOT GAS REHEAT COIL AND TWO STAGE CAPICITY.
- TWO STAGE COOLING HEAT PUMP. PROVIDE PHASE MONITOR/PROTECTION.
- PROVIDE FILTERS, ROOF CURB WITH VIBRATION ISOLATION, CONDENSATE TRAP AND PIPING, FLEXIBLE CONNECTIONS, THRU THE BOTTOM CONNECTIONS, PROGRAMMABLE T-STAT, AND CONDNSATE P-TRAP TO DISCHARGE INTO ROOF DRAIN.

MARK	LAYOUT BASIS			SUPPLY FAN				EVAP. COIL ENTERING AIR DESIGN CONDITIONS		EVAP. COIL LEAVING AIR DESIGN CONDITIONS		SYSTEM COOLING MAX. REQUIREMENTS (MBH)		HEAT PUMP HEATING CAP. (MBH)	SUPPL. HEAT (KW)	ENERGY EFFICIENCY		WEIGHT (LBS)	POWER (VAC/PH)	NOTES
	MANUFACTURER	MODEL NO.	TYPE	DESIGN CFM	OUTSIDE AIRFLOW (CFM)	ESP (IN.WG)	HP	EAT DB (F)	EAT WB (F)	LAT DB (F)	LAT WB (F)	TOTAL (MBH)	SENSIBLE (MBH)			SEER	HSPF			
RTU-1	CARRIER	50GEQM06	PACKAGE UNIT	1750	315	1.00	1.00	78.20	65.30	54.40	54.10	59.19	45.06	54	12.00	17.00	8.00	900	208/3	1:2:3:4:5:6:7:9:10
RTU-2	CARRIER	50GE-N06	PACKAGE UNIT	1750	315	1.00	1.00	78.20	65.30	55.80	54.20	58.67	42.37	-	12.00	17.20	8.00	900	208/3	1:2:3:4:5:6:7:8:10
RTU-3	CARRIER	50GE-N04	PACKAGE UNIT	1050	185	1.00	0.55	78.20	65.30	55.60	53.80	36.26	25.68	-	12.00	17.20	8.00	900	208/3	1:2:3:4:5:6:7:8:10

MINI SPLIT SYSTEM SCHEDULE

NOTES:

- VERIFY ELECTRICAL POWER REQUIREMENTS WITH ELECTRICAL PLANS WHICH TAKES PRECEDENCE OVER THIS INFORMATION.
- ROUTE CONDENSATE AS NOTED ON PLANS. COORDINATE WITH PLUMBING.
- CONDENSATE DRAIN SHALL BE PVC OR MANUFACTURER'S APPROVED PIPE MATERIAL.
- CONTRACTOR MUST COORDINATE EXACT LOCATION OF DRAIN IN THE FIELD WITH PLUMBING CONTRACTOR. MECHANICAL MUST ROUTE CONDENSATE TO APPROPRIATE LOCATION OF DISPOSAL.
- PROVIDE DISCONNECT AND ELECTRICAL CONNECTION TO OUTDOOR UNIT PER MANUFACTURER'S INSTRUCTIONS.
- PROVIDE MANUFACTURER'S WIRED REMOTE CONTROLLER KSACN1201AAA.
- PROVIDE RECTOR SEAL SS810E CONDENSATE OVERFLOW SWITCH TO SHUT UNIT DOWN IN CASE OF CONDENSATE OVERFLOW.
- 4 - WAY CEILING CASSETTE.
- PROVIDE MANUFACTURER'S INTEGRAL CONDENSATE PUMP.

OUTSIDE UNIT MARK	INDOOR UNIT MARK	LAYOUT BASIS			COOLING CAPACITY (Btu/h)	HEATING CAPACITY (Btu/h)	DESIGN AIRFLOW (CFM)	VOLT (V)	PHASE (PH)	SEER2	HSPF2	NOTES
		MANUFACTURER	OUTDOOR MODEL NO.	INDOOR MODEL NO.								
HPU-1	ACU-1	CARRIER	37MARAQ18AA3	45MBCAQ18XA3	18	18	635	208	1	23.5	10.8	1:2:3:4:5:6:7:8:9

FAN SCHEDULE

NOTES:

- FAN SHALL BE CONTROLLED BY HOOD MANUFACTURER'S CONTROL SYSTEM WITH AN OVERRIDE TWO POSITION SWITCH.
- DIRECT DRIVE UPBLAST CENTRIFUGAL ROOF EXHAUST FAN. PROVIDE MANUFACTURER'S NEMA-1 TOGGLE SWITCH.
- PROVIDE MANUFACTURER'S HEAT Baffle AND GREASE TRAP.
- FAN SHALL BE CONTROLLED BY A SWITCH LOCATED BEHIND FRONT COUNTER.
- FAN SHALL BE INTERLOCKED WITH LIGHT SUCH THAT FAN COMES ON WHEN LIGHTS ARE ON.
- CENTRIFUGAL CEILING MOUNTED FAN. PROVIDE MANUFACTURER'S GRILLE, ROUND DUCT CONNECTION, SOLID STATE SPEED CONTROL AND MOTOR WITH THERMAL OVERLOAD.
- VERIFY ELECTRIC POWER REQUIREMENTS WITH ELECTRICAL PLANS, WHICH TAKE PRECEDENCE OVER THIS INFORMATION.

MARK	LAYOUT BASIS		FAN PROPERTIES		AIRFLOW PROPERTIES			ELECTRICAL		PHASE	NOISE CRITERIA (SONES)	NOTES
	MANUFACTURER	MODEL	FAN TYPE	RPM	CFM	MIN AIRFLOW (CFM)	ESP (IN.WG)	POWER (HP)	POWER (V)			
EF-1	GREENHECK	SP-B150	CEILING MOUNTED	1050	140	60	0.30	.07	115	1	3	5:6:7
EF-2	GREENHECK	SP-B150	CEILING MOUNTED	1050	140	60	0.30	.07	115	1	3	5:6:7
EF-3	GREENHECK	SP-B90	CEILING MOUNTED	690	70	30	0.25	-	115	1	1.3	5:6:7
EF-4	GREENHECK	SP-B90	CEILING MOUNTED	690	70	30	0.25	-	115	1	1.3	4:6:7
EF-5	GREENHECK	SP-B90	CEILING MOUNTED	690	70	30	0.25	-	115	1	1.3	4:6:7
KEF-1	ECON-AIR	EADU85H	ROOF MOUNTED	1273	1200	70	1.00	.75	115	1	10.1	1:2:3:7

KITCHEN EXHAUST HOOD SCHEDULE

NOTES:

- BOTTOM OF KITCHEN HOOD AT 80" AFF.
- PROVIDE MANUFACTURER'S FIRE SUPPRESSION SYSTEM. FIRE SUPPRESSION SYSTEM SHALL BE COMPATIBLE WITH NFPA 60.
- SUPPLY AND EXHAUST DUCTWORK SHALL BE COMPATIBLE WITH NFPA 96. HOOD SECTIONS SHALL BE CONTROLLED BY TEMPERATURE SENSOR PER MANUFACTURER'S RECOMMENDATIONS.
- SHORT CYCLE/SHORT CIRCUIT KITCHEN HOOD. HOOD SHALL HAVE 1-2 POSITION LIGHT SWITCH, 1-2 POSITION FAN SWITCH, LIGHTS AND CONTROLS RECOMMENDED BY MANUFACTURER AND PER NFPA 96.
- VERIFY ELECTRICAL REQUIREMENT WITH ELECTRICAL DRAWINGS WHICH TAKES PRECEDENCE OVER THIS INFORMATION. PROVIDE MANUFACTURER'S RECOMMENDED ACCESSORIES.
- PROVIDE SUPPLY COLLAR FIRE DAMPER PER MANUFACTURER'S RECOMMENDATION. PROVIDE BACK SPLASH PANEL, FILTERS, INTEGRAL AIR SPACE, AND UTILITY CABINETS.
- KITCHEN HOOD EXHAUST DUCT SHALL MEET NFPA 96. KITCHEN HOOD EXHAUST DUCTWORK SHALL BE MINIMUM WELDED SEAM 18 GAUGE BLACK STEEL. PROVIDE DUCT CLEANOUT PORT AT 90 DEGREE TRANSITION, AND PROVIDE FIRE WRAP FOR EXHAUST DUCT.

MARK	LAYOUT BASIS			FILTER (QUANTITY OF 5)		AIRFLOW PROPERTIES		DIMENSIONS		NOTES
	MANUFACTURER	MODEL	LAMPS	LENGTH	WIDTH	EXHAUST AIR (CFM)	SUPPLY AIR (CFM)	LENGTH (IN)	WIDTH (IN)	
KH-1	ECON-AIR	5424 EX-2-PSP-F	2	16	20	1200	1000	84	54	1:2:3:4:5:6:7
KH-1	ECON-AIR	5424 EX-2-PSP-F	2	16	20	1200	1000	84	54	1:2:3:4:5:6:7

GRILLES, REGISTERS AND DIFFUSERS SCHEDULE

NOTES:

- PROVIDE STANDARD WHITE FINISH.
- INSULATE BACK OF DEVICE.
- BALANCE AIRFLOW TO QUANTITY SHOWN.
- PROVIDE MANUFACTURER'S FACE OPERATED DAMPER THAT IS ACCESSIBLE FROM THE FACE OF THE REGISTER/DIFFUSER.
- GRILLE SHALL BE SAME COLOR AS THE DUCT/WALL IT IS MOUNTED UNLESS OTHERWISE NOTED.
- FILTER RETURN AIR GRILLE. PAINT TO MATCH THE WALL.

MARK	DESCRIPTION	LAYOUT BASIS		MATERIAL	FINISH	MOUNTING TYPE	FACE SIZE	NOTES
		MANUFACTURER	MODEL					
S1	3-CONE DIFFUSER	TITUS	TMS	ALUMINUM	WHITE ENAMEL	LAY-IN	24x24	1:2:3
S2	DRUM LOUVER	TITUS	300RS	ALUMINUM	WHITE ENAMEL	DUCT MOUNT	NECK + 1-3/4"	3:4:5
S3	3-CONE DIFFUSER	TITUS	TMS	ALUMINUM	WHITE ENAMEL	LAY-IN	12x12	1:2:3
R1	RETURN	TITUS	350FLF	ALUMINUM	WHITE ENAMEL	SURFACE MOUNT	SEE PLAN	6
R2	EGGCRATE GRILLE	TITUS	50F	ALUMINUM	WHITE ENAMEL	LAY-IN	24x24	1:2:3
R3	TRANSFER	TITUS	350F	ALUMINUM	WHITE ENAMEL	SURFACE MOUNT	SEE PLAN	5

MAKE UP AIR UNIT SCHEDULE

NOTES:

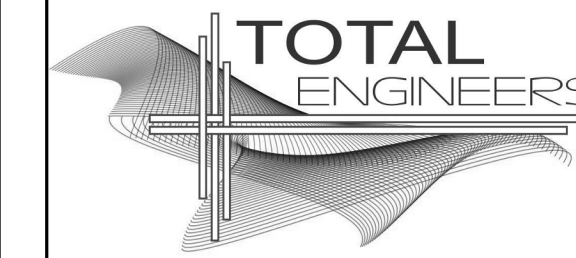
- UNIT SHALL BE INTERLOCKED TO OPERATE WITH KEF-1. INTERLOCK MAKE UP AIR UNIT WITH AUXILIARY STARTER IN KEF-1. PROVIDE WEATHER HOOD AND FILTER SECTION SHALL NOT BE SUPPORTED BY CURB.
- PROVIDED INTAKE HOOD WITH FILTERS, DOWN DISCHARGE, AND MOTORIZED BACK DRAFT DAMPER.
- PROVIDE WEATHERHOOD, INSULATION, CURB, AND MANUFACTURER'S RECOMMENDED OPTION/ACCESSORIES.
- CONTRACTOR SHALL COORDINATE WEIGHT OF THE UNIT WITH STRUCTURAL. THE WEIGHT OF MAU IS 120 LBS.

MARK	LAYOUT BASIS			SUPPLY FAN				WEIGHT (LBS)	POWER (VAC/PH)	NOTES
	MANUFACTURER	MODEL NO.	TYPE	DESIGN CFM	RPM	ESP (IN.WG)	HP			
MAU-1	ECON-AIR	EA-A1-15D	DOWN DISCHARGE	1000	1258	0.50	1.00	120	115/1	1:2:3:4

GM Architect

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ARCHITECT



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 www.totalengineers.com
 GA COA NO # PEF009195 EXP: 08/30/2026

CONSULTANT



STAMP INVALID UNLESS SIGNED

MECHANICAL SCHEDULES

New Facility
Hampton Travel Center

Hwy 81 / Parcel # 019-02031002
 Hampton, Georgia

JOB NO.: 02511
 DRAWN BY: ACC
 CHECKED BY: KP
 DESCRIPTION: SCH-REVIEW
 DATE: 00.0025
 DESCRIPTION: DD-REVIEW
 DATE: 00.0025
 DESCRIPTION: CD-REVIEW
 DATE: 12.19.25
 DESCRIPTION: BID-CONST
 DATE: 00.0025
 REVISIONS:

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