COM*check* Software Version COMcheckWeb

Mechanical Compliance Certificate

Project Information

Energy Code:	2020 Florida Building Code, Energy Conservation
Project Title:	LAKE CITY MEDICAL CENTER ANCILLARY BUILDING
Location:	Lake City, Florida
Climate Zone:	2a
Project Type:	New Construction

Construction Site:
LAKE CITY MEDICAL CENTER 340
NW COMMERCE DRIVE
LAKE CITY, Florida 32055

Owner/Agent:

Designer/Contractor:

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Mechanical Systems List

Quantity **System Type & Description**

1 AHU-1 (Multiple-Zone):
Heating: 1 each - Other, Electric, Capacity = 162 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 305 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 10.00 EER, Required Efficiency: 10.00 EER + 11.6 IEER
Fan System: AHU-1 -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
SAF Supply, Multi-Zone VAV, 6950 CFM, 10.0 motor nameplate hp, 7.6 design brake hp (7.6 max. BHP), 1.00 fan energy index
EF1-1 Exhaust, Constant Volume, 600 CFM, 0.3 motor nameplate hp, 0.1 design brake hp (0.1 max. BHP), 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
RAF-1 Relief, Multi-Zone VAV, 5150 CFM, 2.0 motor nameplate hp, 1.5 design brake hp (1.6 max. BHP), 1.00 fan energy index
Pressure Drop Credits:
Fully ducted return and/or exhaust air systems, 0.0787 credit

1 AHU-2 (Multiple-Zone):
Heating: 1 each - Other, Electric, Capacity = 179 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Single Package DX Unit, Capacity = 353 kBtu/h, Air-Cooled Condenser, Air Economizer
Proposed Efficiency = 10.00 EER, Required Efficiency: 10.00 EER + 11.6 IEER
Fan System: AHU-2 -- Compliance (Brake HP and fan efficiency method) : Passes

Fans:
EF2-3 Exhaust, Constant Volume, 1000 CFM, 0.3 motor nameplate hp, 0.2 design brake hp (0.3 max. BHP), 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
EF2-2 Exhaust, Constant Volume, 2050 CFM, 0.8 motor nameplate hp, 0.3 design brake hp (0.3 max. BHP), 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
EF2-1 Exhaust, Constant Volume, 650 CFM, 0.3 motor nameplate hp, 0.1 design brake hp (0.3 max. BHP), 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
RAF-2 Relief, Multi-Zone VAV, 4025 CFM, 2.0 motor nameplate hp, 1.1 design brake hp (1.1 max. BHP), 1.00 fan energy index
AHU-2 Supply, Multi-Zone VAV, 7775 CFM, 10.0 motor nameplate hp, 9.0 design brake hp (10.0 max. BHP), 1.00 fan energy index
Pressure Drop Credits:
Fully ducted return and/or exhaust air systems, 0.1210 credit

1 A/C-1 (Single Zone):
Heating: 1 each - Other, Electric, Capacity = 28 kBtu/h
No minimum efficiency requirement applies
Cooling: 1 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser, Unknown Economizer

Quantity	System Type & Description
	Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: A/C-1 | ELECTRICAL ROOM -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: AC-1 Supply, Constant Volume, 551 CFM, 0.3 motor nameplate hp, 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
1	A/C-2 (Single Zone): Heating: 1 each - Other, Electric, Capacity = 28 kBtu/h No minimum efficiency requirement applies Cooling: 1 each - Split System, Capacity = 24 kBtu/h, Air-Cooled Condenser, Unknown Economizer Proposed Efficiency = 14.00 SEER, Required Efficiency: 14.00 SEER Fan System: A/C-2 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes Fans: A/C-2 Supply, Constant Volume, 551 CFM, 0.3 motor nameplate hp, 1.00 fan energy index , fan exception: Single fan < 1 HP or < 0.89 kW
1	WH-1: Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump Proposed Efficiency: 0.84 SL, %/h (if > 12 kW), Required Efficiency: 0.84 SL, %/h (if > 12 kW)
1	WH-2: Electric Storage Water Heater, Capacity: 50 gallons w/ Circulation Pump Proposed Efficiency: 0.84 SL, %/h (if > 12 kW), Required Efficiency: 0.84 SL, %/h (if > 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 2020 Florida Building Code, Energy Conservation requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

ANDY BALOGH, P.E.		3/11/2022
Name - Title	Signature	Date