COMcheck Software Version 4.1.5.5

Mechanical Compliance Certificate

Project Information

Energy Code:	2018 IECC
Project Title:	Ehrhart HS 2nd Flr
Location:	Beaumont, Texas
Climate Zone:	2a
Project Type:	Alteration

Construction Site:
3240 Fannin St.
Beaumont, TX 77701

Owner/Agent:

Designer/Contractor:
M&E Consulting
1304 Bertrand Dr.
Lafayette, LA 70506

Mechanical Systems List

Quantity **System Type & Description**

1 HR-4 (Single Zone):
VRF Condensing Unit, Air Cooled w/ Heat Recovery Heat Pump
Heating Mode: Capacity = 188 kBtu/h,
No minimum efficiency requirement applies
Cooling Mode: Capacity = 168 kBtu/h,
No minimum efficiency requirement applies
Fan System: None

1 HR-4/1,2 (Single Zone):
Cooling: 2 each - VRF Zone Fan Unit, Capacity = 18 kBtu/h, No Economizer, Economizer exception: Humidity Requirements
No minimum efficiency requirement applies
Fan System: HR-4/1,2 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 1 Supply, Constant Volume, 460 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade

1 HR-4/3 (Single Zone):
Cooling: 1 each - VRF Zone Fan Unit, Capacity = 5 kBtu/h, No Economizer, Economizer exception: Humidity Requirements
No minimum efficiency requirement applies
Fan System: HR-4/3 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 2 Supply, Constant Volume, 280 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade

1 HR-4/4,15 (Single Zone):
Cooling: 2 each - VRF Zone Fan Unit, Capacity = 6 kBtu/h, No Economizer, Economizer exception: Humidity Requirements
No minimum efficiency requirement applies
Fan System: HR-4/4,15 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 3 Supply, Constant Volume, 210 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade

1 HR-4/5,6,7,8,9,10,11,12,13,14 (Single Zone):
Cooling: 10 each - VRF Zone Fan Unit, Capacity = 15 kBtu/h, No Economizer, Economizer exception: Humidity Requirements
No minimum efficiency requirement applies
Fan System: HR-4/5,6,7,8,9,10,11,12,13,14 -- Compliance (Motor nameplate HP method) : Passes

Fans:
FAN 4 Supply, Constant Volume, 390 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade

Quantity	System Type & Description
1	HR-5 (Single Zone): VRF Condensing Unit, Air Cooled w/ Heat Recovery Heat Pump Heating Mode: Capacity = 188 kBtu/h, No minimum efficiency requirement applies Cooling Mode: Capacity = 168 kBtu/h, No minimum efficiency requirement applies Fan System: None
1	HR-5/1,2,3,4,5,6,7,8 (Single Zone): Cooling: 8 each - VRF Zone Fan Unit, Capacity = 15 kBtu/h, No Economizer, Economizer exception: Humidity Requirements No minimum efficiency requirement applies Fan System: HR-5/1,2,3,4,5,6,7,8 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 5 Supply, Constant Volume, 390 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade
1	HR-5/9,10,11 (Single Zone): Cooling: 3 each - VRF Zone Fan Unit, Capacity = 8 kBtu/h, No Economizer, Economizer exception: Humidity Requirements No minimum efficiency requirement applies Fan System: HR-5/9,10,11 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 6 Supply, Constant Volume, 350 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade
1	HR-5/12,13 (Single Zone): Cooling: 2 each - VRF Zone Fan Unit, Capacity = 18 kBtu/h, No Economizer, Economizer exception: Humidity Requirements No minimum efficiency requirement applies Fan System: HR-5/12,13 -- Compliance (Motor nameplate HP method) : Passes Fans: FAN 7 Supply, Constant Volume, 460 CFM, 0.1 motor nameplate hp, 70.0 fan efficiency grade
1	Water Heater 1: Electric Storage Water Heater, Capacity: 0 gallons w/ Circulation Pump Proposed Efficiency: 1.00 SL, %/h (if > 12 kW), Required Efficiency: 1.00 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical alteration project 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 2018 IECC requirements in COM*check* Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carson Blanchard - Mechanical Design Assist.		08-26-2022
Name - Title	Signature	Date