COM*check* **Software Version COM***checkWeb*

Mechanical Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard

Project Title: Elmonica Station Apartments Building 1

Location: Beaverton, Oregon

Climate Zone: 4c

Project Type: New Construction

Construction Site: SW 170th and W Baseline Beaverton, Oregon 97006 Owner/Agent:
Andrea Bowlds
Jacobs
503) 234-7331
andreab@jacobsheating.com

Designer/Contractor: Mark Denyer MFIA Consulting Engineers mark.denyer@mfia-eng.com

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Mechanical Systems List

Quantity System Type & Description

1 RTU-1 (Single Zone):

Heating: 1 each - Central Furnace, Gas, Capacity = 150 kBtu/h

Proposed Efficiency = 80.00% Et, Required Efficiency: 80.00 % Et (or 80% AFUE)

Cooling: 1 each - Single Package DX Unit, Capacity = 80 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Low Capacity Residential

Proposed Efficiency = 12.00 EER, Required Efficiency = 11.00 EER

Proposed Part Load Efficiency = 14.00 IEER, Required Part Load Efficiency = 12.70 IEER

Fan System: RTU-1 | Corridors -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:

FAN 1 Supply, Constant Volume, 2400 CFM, 1.3 motor nameplate hp, 1.00 fan energy index

1 FC-1 (Single Zone):

Split System Heat Pump

Heating Mode: Capacity = 36 kBtu/h,

Proposed Efficiency = 8.50 HSPF, Required Efficiency = 8.20 HSPF

Cooling Mode: Capacity = 36 kBtu/h,

Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER

Proposed Part Load Efficiency = 0.00 , Required Part Load Efficiency = 0.00

Fan System: FC-1 | Common Areas Level 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans

FAN 2 Supply, Constant Volume, 1200 CFM, 0.2 motor nameplate hp, 1.00 fan energy index

1 FC-2 (Single Zone):

Split System Heat Pump

Heating Mode: Capacity = 18 kBtu/h,

Proposed Efficiency = 13.00 HSPF, Required Efficiency = 8.20 HSPF

Cooling Mode: Capacity = 18 kBtu/h,

Proposed Efficiency = 14.00 SEER, Required Efficiency = 14.00 SEER

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Fan System: FC-2 | Co-working -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans

FAN 3 Supply, Constant Volume, 600 CFM, 0.1 motor nameplate hp, 1.00 fan energy index

1 PTHP-1 (Single Zone):

Packaged Terminal Heat Pump

Heating Mode: Capacity = 9 kBtu/h,

Proposed Efficiency = 3.81 COP, Required Efficiency = 3.23 COP

Cooling Mode: Capacity = 9 kBtu/h,

Proposed Efficiency = 12.20 EER, Required Efficiency = 11.30 EER

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Fan System: PTHP-1 | Studio -- Compliance (Motor nameplate HP and fan efficiency method): Passes

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Quantity System Type & Description

Fans

FAN 4 Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 1.00 fan energy index

1 PTHP-2 (Single Zone):

Packaged Terminal Heat Pump

Heating Mode: Capacity = 12 kBtu/h,

Proposed Efficiency = 3.81 COP, Required Efficiency = 3.08 COP

Cooling Mode: Capacity = 12 kBtu/h,

Proposed Efficiency = 12.20 EER, Required Efficiency = 10.40 EER

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Fan System: PTHP-2 | 1 Bedroom -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:

FAN 5 Supply, Constant Volume, 400 CFM, 0.1 motor nameplate hp, 1.00 fan energy index

1 PTHP-3 (Single Zone):

Packaged Terminal Heat Pump

Heating Mode: Capacity = 15 kBtu/h,

Proposed Efficiency = 3.81 COP, Required Efficiency = 2.92 COP

Cooling Mode: Capacity = 15 kBtu/h,

Proposed Efficiency = 12.20 EER, Required Efficiency = 9.50 EER

Proposed Part Load Efficiency = 0.00, Required Part Load Efficiency = 0.00

Fan System: FC-3 | 2&3 Bedroom -- Compliance (Motor nameplate HP and fan efficiency method): Passes

Fans:

FAN 6 Supply, Constant Volume, 600 CFM, 0.2 motor nameplate hp, 1.00 fan energy index

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 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Mark Denyer		
Name - Title	Signature	Date

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Inspection Checklist

Energy Code: 90.1 (2019) 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. Location on plans/spec: See sheet M0.01
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 met. Location on plans/spec: See sheet M0.01
4.2.5.2 [PR5] ¹	Commissioning shall be performed as stated in Sections 5.9.2, 6.9.2, 7.9.2, 8.9.2, 9.9.2, 10.9.2, 11.2(d), and G1.2.1(c). Commissioning must utilize ASHRAE/IES Standard 202 or other generally accepted engineering standards acceptable to the building official. FPT and verification requirements for commissioning are as stated in Section 4.2.5.1. Commissioning shall document compliance of the building systems, controls, and building envelope with required provisions of this standard. Commissioning requirements shall be incorporated into the construction documents.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01

Additional Comments/Assumptions:

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

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Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
6.4.3.7 [FO9] ³	Freeze protection and snow/ice melting system sensors for future connection to controls.	□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

Additional Comments/Assumptions:

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

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.1.4, 6.4.1.5 [ME1] ²	HVAC equipment efficiency verified. Non-NAECA HVAC equipment labeled as meeting	Efficiency:	Efficiency:	□Complies □Does Not □Not Observable	See the Mechanical Systems list for values.
	90.1.		 	□Not Applicable	
6.4.3.4.1 [ME3] ³	Stair and elevator shaft vents have motorized dampers that automatically close.			□Complies □Does Not	Exception: Requirement does not apply.
	,			□Not Observable □Not Applicable	
6.4.3.4.2, 6.4.3.4.3	Outdoor air and exhaust systems have motorized dampers that			□Complies □Does Not	Requirement will be met.
[ME4] ³	automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed.			□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.4.3.4.5 [ME39] ³	Enclosed parking garage ventilation has automatic			☐Complies ☐Does Not	Exception: Requirement does not apply.
	contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.			□Not Observable □Not Applicable	
6.4.3.4.4 [ME5] ³	Ventilation fans >0.75 hp have automatic controls to shut off fan			□Complies □Does Not	Exception: HVAC systems intended to operate
	when not required.			□Not Observable □Not Applicable	continuously. Location on plans/spec: NA
6.4.3.8 [ME6] ¹	Demand control ventilation provided for spaces >500 ft2 and >25 people/1000 ft2 occupant			☐Complies ☐Does Not ☐Not Observable	Requirement will be met. Location on plans/spec:
	density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.			Not Applicable	NA
6.5.3.2.1 [ME40] ²	DX cooling systems >= 75 kBtu/h (>= 65 kBtu/h effective 1/2016)			□Complies □Does Not	Exception: Requirement does not apply.
	and chilled-water and evaporative cooling fan motor hp >= ½ designed to vary supply fan airflow as a function of load and comply with operational requirements.			□Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.4.4.1.1 [ME7] ³	Insulation exposed to weather protected from damage.			□Complies □Does Not	Requirement will be met.
	Insulation outside of the conditioned space and associated with cooling systems is vapor retardant.			□Not Observable □Not Applicable	
6.4.4.1.2 [ME8] ²	HVAC ducts and plenums insulated per Table 6.8.2. Where	R	R	□Complies □Does Not	Requirement will be met.
	ducts or plenums are installed in or under a slab, verification may need to occur during Foundation Inspection.			□Not Observable □Not Applicable	Location on plans/spec: NA
6.4.4.1.3 [ME9] ²	HVAC piping insulation thickness. Where piping is installed in or under a slab, verification may need to occur during Foundation	in.	in.	☐Complies ☐Does Not ☐Not Observable	Exception: Requirement does not apply.
	Inspection.		 	□Not Applicable	

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.4.4.1.4 [ME41] ³	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.			□Complies □Does Not □Not Observable	Exception: Requirement does not apply.
6.4.4.2.1 [ME10] ²	Ducts and plenums having pressure class ratings are Seal Class A construction.			□Not Applicable □Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.8.1-15, 6.8.1-16 [ME110] ²	Electrically operated DX-DOAS units meet requirements per Tables 6.8.1-15 or 6.8.1-16.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
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6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.4.4.2.2 [ME11] ³	Ductwork operating >3 in. water column requires air leakage testing.			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Exception: Requirement does not apply.
6.5.2.3 [ME19] ³	Dehumidification controls provided to prevent reheating, recooling, mixing of hot and cold airstreams or concurrent heating and cooling of the same airstream.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: NA
6.5.2.4.1 [ME68] ³	Humidifiers with airstream mounted preheating jackets have preheat auto-shutoff value set to activate when humidification is not required.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.2.4.2 [ME69] ³	Humidification system dispersion tube hot surfaces in the airstreams of ducts or airhandling units insulated >= R-0.5.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

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Section #	Mechanical Rough-In	Plans Verified	Field Verified	Complies?	Comments/Assumptions
& Req.ID	Inspection	Value	Value	Complies	Comments/Assumptions
6.5.2.5 [ME70] ³	Preheat coils controlled to stop heat output whenever mechanical cooling, including economizer operation, is active.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: NA
6.5.2.6 [ME106] ³	Units that provide ventilation air to multiple zones and operate in conjunction with zone heating and cooling systems are prevented from using heating or heat recovery to warm supply air above 60°F when representative building loads or outdoor air temperature indicate that most zones demand cooling.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.6 [ME72] ²	Motors for fans >= 1/12 hp and < 1 hp are electronically-commutated motors or have a minimum motor efficiency of 70%. These motors are also speed adjustable for either balancing or remote control.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01

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Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

Section # & Req.ID	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.3.4 [ME108] ²	Parallel-flow fan-powered VAV air terminals have automatic controls to a) turn off the terminal fan except when space heating is required or if required for ventilation; b) turn on the terminal fan as the first stage of heating before the heating coil is activated; and c) during heating for warmup or setback temperature control, either operate the terminal fan and heating coil without primary air or reverse the terminal damper logic and provide heating from the central air handler through primary air.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.

Section #	Mechanical Rough-In	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID	Inspection	value	value	·	•
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.

Section #	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.7 [ME109] ²	Required minimum outdoor air rate is the larger of minimum outdoor air rate or minimum exhaust air rate required by Standard 62.1, Standard 170, or applicable codes or accreditation standards. Outdoor air ventilation systems shall comply with one of the following: a) design minimum system outdoor air provided < 135% of the required minimum outdoor air rate, b) dampers, ductwork, and controls allow the system to supply <= the required minimum outdoor air rate with a single set-point adjustment., or c) system includes exhaust air energy recovery complying with Section 6.5.6.1.			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint reset controls.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply. See the Mechanical Systems list for values.

2 Medium Impact (Tier 2)

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1 High Impact (Tier 1)

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3 Low Impact (Tier 3)

Section #	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes			☐Complies ☐Does Not	Exception: Requirement does not apply.
	have static pressure setpoint reset controls.			□Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint			□Complies □Does Not	Exception: Requirement does not apply.
	reset controls.			□Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint			☐Complies ☐Does Not	Exception: Requirement does not apply.
	reset controls.			□Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint			☐Complies ☐Does Not	Exception: Requirement does not apply.
	reset controls.			□Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.5.3.3 [ME42] ³	Multiple zone VAV systems with DDC of individual zone boxes have static pressure setpoint			□Complies □Does Not	Exception: Requirement does not apply.
	reset controls.			□Not Observable □Not Applicable	See the Mechanical Systems list for values.
6.5.4.2 [ME25] ³	HVAC pumping systems with >= 3 control values designed for variable fluid flow (see section			□Complies □Does Not	Exception: Requirement does not apply.
	details).			□Not Observable □Not Applicable	
6.5.6.1.1 [ME56] ¹	Exhaust Air Energy Recovery for Nontransient Dwelling Units			☐Complies ☐Does Not	Requirement will be met.
				□Not Observable □Not Applicable	
6.5.6.1.2 [ME111] ¹	Exhaust air energy recovery for spaces other than Nontransient dwelling units meeting Tables			☐Complies ☐Does Not	Exception: Requirements do not apply.
	6.5.6.1.2-1, and 6.5.6.1.2-2.			□Not Observable □Not Applicable	
6.5.7.2.1 [ME32] ²	Kitchen hoods >5,000 cfm have make up air >=50% of exhaust air volume.			□Complies □Does Not	Exception: Requirement does not apply.
	all volume.			□Not Observable □Not Applicable	
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow,			□Complies □Does Not	Requirement will be met.
	required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Not Observable □Not Applicable	
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the			☐Complies ☐Does Not	Requirement will be met.
	greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the			□Complies □Does Not	Requirement will be met.
	greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01

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#	Mechanical Rough-In Inspection	Plans Verified Value	Field Verified Value	Complies?	Comments/Assumptions
& Req.ID 6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			Complies Does Not Not Observable Not Applicable	Requirement will be met.
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
6.5.7.1 [ME100] ²	Conditioned supply air to space with mechanical exhaust <= the greater of criteria of supply flow, required ventilation rate, exhaust flow minu the available transffer air (see section details).			□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01
5.5.3.8 [ME112] ¹	Occupied standy controls for zones serving rooms that are required to have automatic partial OFF or automatic full OFF lighting controls per Section 9.4.1.1 shall meet the following within five minutes of all rooms in that zone entering occupied-standby mode: a)Active heating set point shall be setback at least 1°F, b)Active cooling set point shall be setup at least 1°F and c)All airflow supplied to the zone shall be shut off whenever the space temperature is between the active heating and cooling set points.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.7.2.4 [ME49] ³	Approved field test used to evaluate design air flow rates and demonstrate proper capture and containment of kitchen exhaust systems.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.8.1 [ME34] ²	Unenclosed spaces that are heated use only radiant heat.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.9 [ME35] ¹	Hot gas bypass limited to: <=240 kBtu/h - 15% >240 kBtu/h - 10%			☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. Location on plans/spec: Not Applicable
5.4.3.9 [ME63] ²	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.			□Complies □Does Not □Not Observable □Not Applicable	Exception: Requirement does not apply.
6.5.10 [ME73] ³	Doors separating conditioned space from the outdoors have controls that disable/reset			☐Complies ☐Does Not ☐Not Observable	Requirement will be met.

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2 Medium Impact (Tier 2)

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1 High Impact (Tier 1)

3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10] ²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
8.4.3 [EL11] ²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system the energy use is transmitted to to control system and displayed graphically.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met.
10.4.1 [EL9] ²	Electric motors meet requirements where applicable.	□Complies □Does Not □Not Observable □Not Applicable	Requirement will be met. Location on plans/spec: See sheet M0.01

Additional Comments/Assumptions:

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
6.4.3.1.2 [FI3] ³	Thermostatic controls have a 5 °F deadband.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
6.4.3.2 [FI20] ³	Temperature controls have setpoint overlap restrictions.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.4.3.3.1 [FI21] ³	HVAC systems equipped with at least one automatic shutdown control.	\square Complies \square Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
6.4.3.3.2 [FI22] ³	Setback controls allow automatic restart and temporary operation as required for maintenance.	\square Complies \square Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
6.4.3.5 [FI5] ³	Heat pump controls prevent supplemental electric resistance heat	□Complies □Does Not	Requirement will be met.
	from coming on when not needed.	□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.4.3.5 [FI5] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.4.3.5 [FI5] ³	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	\square Complies \square Does Not	Requirement will be met.
		□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.4.3.5 [FI5] ³	Heat pump controls prevent supplemental electric resistance heat	□Complies □Does Not	Requirement will be met.
	from coming on when not needed.	□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
		□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	Location on plans/spec: See sheet M0.01
6.4.3.6 [FI6] ³	When humidification and dehumidification are provided to a zone, simultaneous operation is prohibited. Humidity control prohibits the use of fossil fuel or electricity to produce RH > 30% in the warmest zone humidified and RH < 60% in the coldest zone dehumidified.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	Location on plans/spec: NA
6.7.2.1 [FI7] ³	Furnished HVAC as-built drawings submitted within 90 days of system	\square Complies \square Does Not	Requirement will be met.
	acceptance.	□Not Observable □Not Applicable	
6.7.2.2 [FI8] ³	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	□Complies □Does Not	Requirement will be met.
		□Not Observable □Not Applicable	

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Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
[FI9] ¹	An air and/or hydronic system balancing report is provided for HVAC systems serving zones >5,000 ft2 of conditioned area.	\square Complies \square Does Not	Requirement will be met.
		□Not Observable □Not Applicable	
10.4.3 [FI24] ²	Elevators are designed with the proper lighting, ventilation power, and	\square Complies \square Does Not	Requirement will be met.
	standby mode.	□Not Observable □Not Applicable	

Additional Comments/Assumptions:

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