

MECHANICAL COMPLIANCE SUMMARY

2018 WSEC Compliance Forms for Commercial Buildings including Group R2, R3 & R4 over 3 stories and all R1

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Project & Applicant Information	Project Title	THE TALMON - 2018 WSEC	For Building Department Use:	Date: Oct 31, 2024
	Project Address	306 CENTER STREET La Conner, WA 98257		
	Applicant Name	Randy Steele		
	Applicant Phone	360-510-4968		
	Applicant Email	hrsteele1969@gmail.com		
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com				

General Occupancy	All Group R - R2, R3 & R4 over 3 stories and all R1		General Building Use Type	Lodging/Residential, Hotel/Motel Multifamily/Residential, Mixed Use		Building Cond. Floor Area	21,264
General Project Types	New Building	New Building or Addition Mechanical Scope	Central Plant Systems Single Zone Systems & Equipment	Alteration Mechanical Scope		Project Cond. Floor Area	21,264
						Floors Above Grade	3
						Compliance Method	General Prescriptive
Mechanical Project Description	HVAC for 3 story building with 6 Air B&B Hotel Units on the 1st floor and 14 Apartments on the 2nd & 3rd Floors.						

Mechanical Compliance Scope and Method	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?	Higher Equipment Efficiency Option Applied?	Equipment Efficiency Compliance Verification
	Building Addition	Central Plant Systems	Yes	NA	Yes	COMPLIES
	New Building	Single Zone Systems & Equipment	No	Yes	Yes	COMPLIES
Additional Efficiency Credits Included (AEC)	Higher equipment efficiency and fan FEG					
Does building include occupancy classifications requiring DOAS?	No		Does project include DOAS equipment?			Yes
Based on project scope do TSPR requirements apply?	No		Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?			No

Scope & Space Conditioning	NEW CONSTRUCTION - CENTRAL PLANT SYSTEMS	Compliance Verification	COMPLIES
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VRF Multi-Split Systems Category - Heat pump outdoor unit, applied (water or ground loop, groundwater)

Cooling Equipment Efficiency Information											
System ID	Cooling System Type	Specific Type	Cooling Capacity (Btu/h)	AEC Efficiency Multiplier	Econo Exception Multiplier (FL & PL)	Combined Efficiency Multiplier (AEC & Econo)	Proposed Cooling Efficiency	CE Units	Proposed Part Load Efficiency	PL Units	Efficiency Compliance Verification
HP-1	VRF air-cooled HP	Heat pump	12,000	1.15	1.15	1.3225	22.5	SEER			COMPLIES
HP-2	VRF air-cooled HP	Heat pump	18,000	1.15	1.15	1.3225	22.5	SEER			COMPLIES
HP-3	VRF air-cooled HP	Heat pump	24,000	1.15	1.15	1.3225	24.1	SEER			COMPLIES
HP-4	VRF air-cooled HP	Heat pump	12,000	1.15	1.15	1.3225	22.5	SEER			COMPLIES
HP-5	VRF air-cooled HP	Heat pump	18,000	1.15	1.15	1.3225	22.5	SEER			COMPLIES
HP-6	VRF air-cooled HP	Heat pump	18,000	1.15	1.15	1.3225	22.5	SEER			COMPLIES

Heating Equipment Efficiency Information									
System ID	Heating System Type	Specific Type	Heating Capacity (Btu/h)	Cooling Capacity (Btu/h) (Same as Cooling Table)	AEC Efficiency Multiplier	Proposed Heating Efficiency	HE Units	Efficiency Compliance Verification	
HP-1	VRF air-cooled HP, heating	Heat pump	13,500.0	12,000	1.15	12.0	HSPF	COMPLIES	
HP-2	VRF air-cooled HP, heating	Heat pump	19,600.0	18,000	1.15	10.6	HSPF	COMPLIES	
HP-3	VRF air-cooled HP, heating	Heat pump	26,300.0	24,000	1.15	11.0	HSPF	COMPLIES	
HP-4	VRF air-cooled HP, heating	Heat pump	13,500.0	12,000	1.15	12.0	HSPF	COMPLIES	

HP-5	VRF air-cooled HP, heating	Heat pump	19,600.0	18,000	1.15	10.6	HSPF	COMPLIES
HP-6	VRF air-cooled HP, heating	Heat pump	19,600.0	18,000	1.15	10.6	HSPF	COMPLIES

Equipment Details			
System ID	Location in Documents - Plan/Detail #	Quantity of Fan Coil Units in VRF System	
HP-1	M1.0	1	
	Economizer Compliance Method: Economizer not required		Air-side economizer exception applied?: Exp 5(1) - Group R cooling units <20,000 Btu/h
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(1)C - VRF Air-to-Air & Applied Heat Pumps		
HP-2	M1.0	1	
	Economizer Compliance Method: Economizer not required		Air-side economizer exception applied?: Exp 5(1) - Group R cooling units <20,000 Btu/h
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(1)C - VRF Air-to-Air & Applied Heat Pumps		
HP-3	M1.0	3	
	Economizer Compliance Method: Applying air-side economizer exception		Air-side economizer exception applied?: Exp 5(1) - Group R cooling units <20,000 Btu/h
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(1)C - VRF Air-to-Air & Applied Heat Pumps		
HP-4	M1.0	1	
	Economizer Compliance Method: Applying air-side economizer exception		Air-side economizer exception applied?: Exp 5(1) - Group R cooling units <20,000 Btu/h
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(1)C - VRF Air-to-Air & Applied Heat Pumps		
HP-5	M1.0	1	
	Economizer Compliance Method: Applying air-side economizer exception		Air-side economizer exception applied?: Exp 5(1) - Group R cooling units <20,000 Btu/h
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(1)C - VRF Air-to-Air & Applied Heat Pumps		
HP-6	M1.0	1	
	Economizer Compliance Method: Applying air-side economizer exception		Air-side economizer exception applied?: Exp 11a - Server/equip/telecom room
	WSEC Equipment Efficiency Reference Table: Table C403.3.2(1)C - VRF Air-to-Air & Applied Heat Pumps		

Scope & Space Conditioning	NEW BUILDING - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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