

MECHANICAL COMPLIANCE SUMMARY

2021 WSEC Compliance Forms for Commercial Buildings including Group R1, R2, and Group R3 & R4 over 3 stories

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Project & Applicant Information		Project Title	Garnero Child Development Center RTU Replacements - 2021 WSEC		For Building Department Use:	Date: Dec 5, 2025	
		Project Address	1601 39th Ave SE South Hill, WA 98374		PRMH20251523		
		Applicant Name	Cassie Stayton		Full-Sized legible color report must be on site and made available by the Permittee for all inspections.		
		Applicant Phone	360-489-0717				
		Applicant Email	Cassies@elitemechsvcs.com				

Mechanical Compliance Summary Scope - Compliance verification provided in this report is limited to code minimum efficiency requirements for mechanical equipment types defined in Tables C403.3.2(1) through C403.3.2(16) of the 2021 WSEC-C. This includes efficiency multipliers for economizer exceptions. Performance criteria for additional energy efficiency and load management measures ARE NOT included in this report. Additional documentation is required to demonstrate compliance with all other provisions of the energy code, including better than code efficiency criteria for Section C406. 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 Commercial		General Building Use Type(s)	Education, Preschool/Daycare		Building Cond. Floor Area	7,000
General Project Types	Alteration	New Building or Addition Mechanical Scope		Alteration Mechanical Scope	Single Zone Systems & Equipment	Project Cond. Floor Area	7,000
						Floors Above Grade	1
						Overall Compliance Path	General Prescriptive
Mechanical Project Description							

Mechanical Compliance Scope and Method	Project Type	Mechanical Scope	Economizer Exception(s) Applied?	DOAS Ventilation Provided?		Equipment Efficiency Compliance Verification
	Alteration	Single Zone Systems & Equipment	Yes	No		COMPLIES
Additional Energy Efficiency Measures (AEM)	No mechanical additional energy efficiency measures included in project			Load Management Measures (LDM)	No mechanical load management measures included in project	
Does building include occupancy classifications requiring DOAS?			No	Does project include DOAS equipment?		No
Based on project scope do TSPR requirements apply?			Yes	Do all systems comply with Appendix D standard reference design or qualify for an exception to TSPR?		Yes

Scope & Space Conditioning	ALTERATION - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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Single Zone Air Systems Category - Heat pump, packaged (PTHP, SPVHP, Room)

Air Systems Summary Information								
System/Equip ID	Quantity of Items	Supply Airflow Control	Ventilation Standard	Ventilation CFM (Total if Multiple Items)	Ventilation Air Source	Paired with DOAS	Ventilation energy recovery	Energy Recovery Efficiency (%)
RTU-1 & RTU 4	2	Constant volume	ASHRAE Standard 62.1		Integral			
RTU-2		Constant volume	ASHRAE Standard 62.1		Integral			
RTU-3		Constant volume	ASHRAE Standard 62.1		Integral			
RTU-5 & RTU-6	2	Constant volume	ASHRAE Standard 62.1		Integral			

Air Systems & Equipment - Cooling									
System/Equip ID	Cooling System/Equip Type		Specific Type	Cooling Capacity per item (Btu/h)	Econo Exception Multiplier (Full)	Required Cooling Efficiency (Code Min + Econo)	Proposed Cooling Efficiency	CE Units	Efficiency Compliance Verification
RTU-1 & RTU 4	Heat pump, terminal (PTHP)		Packaged terminal HP, standard size	48,000	0	9.5		EER	COMPLIES
RTU-2	Heat pump, terminal (PTHP)		Packaged terminal HP, standard size	72,000	0	9.5		EER	COMPLIES
RTU-3	Heat pump, terminal (PTHP)		Packaged terminal HP, standard size	36,000	0	9.5	12.0	EER	COMPLIES
RTU-5 & RTU-6	Heat pump, terminal (PTHP)		Packaged terminal HP, standard size	60,000	0	9.5		EER	COMPLIES

Air Systems & Equipment - Heating									
System /Equip ID	Heating System/Equip Type		Specific Type	Heat Pump Heating Capacity	Cooling Capacity per Item (Btu/h)	Required Heat Pump Heating Efficiency	Proposed Heat Pump Heating Efficiency	HPH Units	Efficiency Compliance Verification

			per item (Btu/h)	(Identical to Cooling Table)				
RTU-5 & RTU-6	Heat pump, terminal (PTHP), heating	Packaged terminal HP, standard size	55,000	60,000	2.9	6.9	COP	COMPLIES
RTU-3	Heat pump, terminal (PTHP), heating	Packaged terminal HP, standard size	33,600	36,000	2.9	6.9	COP	COMPLIES
RTU-1 & RTU 4	Heat pump, terminal (PTHP), heating	Packaged terminal HP, standard size	45,000	48,000	2.9	6.9	COP	COMPLIES
RTU-2	Heat pump, terminal (PTHP), heating	Packaged terminal HP, standard size	62,000	72,000	2.9		COP	COMPLIES

Air Systems & Equipment Details			
System/Equip ID	Discrete Area(s) Served	Location In Project Documents - Plan/Detail #	System/Equip Compliance Path
RTU-1 & RTU 4	Child Development Center	ALL	General Prescriptive
	Economizer Compliance Method: Air-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		
RTU-2	Child Development Center	ALL	General Prescriptive
	Economizer Compliance Method: Air-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		
RTU-3	Child Development Center	ALL	General Prescriptive
	Economizer Compliance Method: Air-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		
RTU-5 & RTU-6	Child Development Center	ALL	General Prescriptive
	Economizer Compliance Method: Air-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Packaged Terminal, Vertical AC & HP and Room AC Units		