

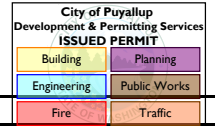
MECHANICAL COMPLIANCE SUMMARY

B-21-0421

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 Reviewed 2/15/2022 DL Subject to field inspectors approvals.	Project Title	Costco - Puyallup (#660), WA - HVAC All - 2018 WSEC	For Building Department Use: THE APPROVED CONSTRUCTION PLANS AND ALL DOCUMENTS MUST BE POSTED ON THE JOB AT ALL INSPECTIONS IN A VISIBLE AND READILY ACCESSIBLE LOCATION.	Date: Oct 01, 2021
	Project Address	1201 39th Ave SW Puyallup, WA 98373		
	Applicant Name	Chester Pasag		
	Applicant Phone	425-970-3753		
	Applicant Email	cpasag@tei-engineering.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 Commercial	General Building Use Type	Retail, Wholesale Club/Superstore	Building Cond. Floor Area	146,242	
General Project Types	Alteration	New Building or Addition Mechanical Scope	Alteration Mechanical Scope	Single Zone Systems & Equipment	Project Cond. Floor Area	146,242
					Floors Above Grade	1
					Compliance Method	Compliance Method 1 - General
Mechanical Project Description	Replacement of all main sales units and ancillary areas besides food service.					

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
	Alteration	Single Zone Systems & Equipment	Yes	No	NA	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?			No
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	ALTERATION - SINGLE ZONE SYSTEMS & EQUIPMENT	Compliance Verification	COMPLIES
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Single Zone Air Systems Category - Furnace, warm air

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 (%)
AC-4		Variable air volume	IMC Ventilation	2,400	Integral		Not provided, not required	
AC-7~11		Variable air volume	IMC Ventilation	18,500	Integral		Not provided, not required	

Air Systems & Equipment - Cooling											
System/Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (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
AC-4	Air conditioner, terminal (PTAC)	Packaged terminal DX, replacement	67,000	1	0	1		EER			COMPLIES
AC-7~11	Air conditioner, terminal (PTAC)	Packaged terminal DX, replacement	531,000	1	0	1					COMPLIES

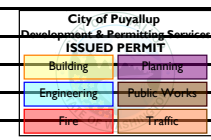
Air Systems & Equipment - Heating								
System /Equip ID	Heating System/Equip Type	Specific Type	Heating Capacity	HC Units	Proposed Heating Efficiency	HE Units	Efficiency Compliance Verification	
AC-7~11	Furnace	Warm air, gas fired (AFUE)	540,000	Btu/h	81.0		COMPLIES	
AC-4	Furnace	Warm air, gas fired (AFUE)	90,000	Btu/h	81.0	AFUE	COMPLIES	

Air Systems & Equipment Details

System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #	
AC-4	Tire Sales	ME-1, ME-3	
	Economizer Compliance Method: Air-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Warm Air Furnaces		
AC-7~11	Main Sales	ME-1, ME-3	
	Economizer Compliance Method: Air-side economizer provided		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Warm Air Furnaces		

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 (%)
AH-6		Constant volume	IMC Ventilation	600	Integral			
AH-2		Constant volume	IMC Ventilation	1,000	Integral			
AH-1		Constant volume	IMC Ventilation	1,000	Integral			
AH-5		Constant volume	IMC Ventilation	710	Integral			



Air Systems & Equipment - Cooling

System/Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (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
AH-1	Heat pump, vertical (SPVHP)	Single package, vertical	36,000	1	0	1	11.0	EER			COMPLIES
AH-5	Heat pump, vertical (SPVHP)	Single package, vertical	24,000	1	0	1	11.0	EER			COMPLIES
AH-6	Heat pump, vertical (SPVHP)	Single package, vertical	24,000	1	0	1	11.0	EER			COMPLIES
AH-2	Heat pump, vertical (SPVHP)	Single package, vertical	36,000	1	0	1	11.0	EER			COMPLIES

Air Systems & Equipment - Heating

System /Equip ID	Heating System/Equip Type	Specific Type	Heat Pump Heating Capacity (Btu/h)	Cooling Capacity (Btu/h)	AEC Efficiency Multiplier	Proposed Heat Pump Heating Efficiency	HPH Units	Proposed Low OSA Temp Efficiency	LTH Units	Efficiency Compliance Verification
AH-2	Heat pump, vertical (SPVHP), heating	Single package, vertical heat pump	40,000	36,000	1	3.3	COP			COMPLIES
AH-5	Heat pump, vertical (SPVHP), heating	Single package, vertical heat pump	27,000	24,000	1	3.5	COP			COMPLIES
AH-6	Heat pump, vertical (SPVHP), heating	Single package, vertical heat pump	27,000	24,000	1	3.5	COP			COMPLIES
AH-1	Heat pump, vertical (SPVHP), heating	Single package, vertical heat pump	40,000	36,000	1	3.3	COP			COMPLIES

Air Systems & Equipment Details

System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #	
AH-6	EDP	ME-2, ME-3	
	System/Equip ID for a single or multiple items?: Single item		
	Economizer Compliance Method: Economizer not required		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP		
AH-2	Office	ME-2, ME-3	
	System/Equip ID for a single or multiple items?: Single item		
	Economizer Compliance Method: Economizer not required		WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP		
AH-1	Pharmacy	ME-2, ME-3	
	System/Equip ID for a single or multiple items?: Single item		

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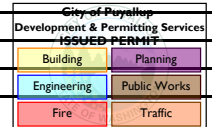
	Economizer Compliance Method: Economizer not required	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP	
AH-5	Optical	ME-2, ME-3
	System/Equip ID for a single or multiple items?: Single item	
	Economizer Compliance Method: Economizer not required	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(3) - Packaged Terminal and Vertical AC and HP	

Single Zone Equipment Category - Condensing Unit

Equipment Summary Information		
System/Equip ID	Quantity of Items	
CU-1 & 2		
CU-5 & 6		

Air Systems & Equipment - Cooling											
System/Equip ID	Cooling System/Equip Type	Specific Type	Cooling Capacity per item (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
CU-1 & 2	Condensing unit, air cooled		36,000	1		0		NA		IEER	COMPLIES
CU-5 & 6	Condensing unit, air cooled		24,000	1		0		NA		IEER	COMPLIES

Equipment Details		
System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #
CU-1 & 2	Pharmacy, Office	ME-1, ME-3
	System/Equip ID for a single or multiple items?: Multiple items w/ identical heating & cooling capacity	
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(1)A - Unitary Air Conditioners & Condensing Units	
CU-5 & 6	Office, EDP	ME-1, ME-3
	System/Equip ID for a single or multiple items?: Multiple items w/ identical heating & cooling capacity	
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(1)A - Unitary Air Conditioners & Condensing Units	



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