

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	South Hill Mall RTU Replacement - 2018 WSEC	For Building Department Use:		Date: Feb 01, 2024
	Project Address	3500 S. Meridian St. Puyallup, WA 98373			
	Applicant Name	Andrew Daw			
	Applicant Phone	206-627-5075			
	Applicant Email	adaw@hermanson.com			
For questions about this report, contact WSEC Commercial Technical Support at 360-539-5300 or via email at com.techsupport@waenergycodes.com					

PRMH20240184

General Occupancy	All Commercial		General Building Use Type	Retail, Enclosed Mall		Building Cond. Floor Area	52,924
General Project Types	Alteration	New Building or Addition Mechanical Scope		Alteration Mechanical Scope	Single Zone Systems & Equipment	Project Cond. Floor Area	52,924
						Floors Above Grade	1
						Compliance Method	Compliance Method 1 - General
Mechanical Project Description	Replacement of (1) 10 Ton DX/Gas roof mounted air handler (RTU)						

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)						
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 - Air conditioner, unitary, thru-wall, SDHV

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-29		Constant volume	IMC Ventilation	800	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
RTU-29	Air conditioner, air cooled	Single package DX	126,000	1	0	1	12.0	EER	14.6	IEER	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
RTU-29	Furnace	Warm air, gas-fired (Et)	220,000	Btu/h	80.0	Et	COMPLIES

Air Systems & Equipment Details			
System/Equip ID	Area(s) Served	Location In Project Documents - Plan/Detail #	

RTU-29{{detail-2289}}	Level 1 Retail{{detail-2255}}	M0.01, M2.R1{{detail-2272}}	
	Heating Section/Auxiliary Heating Type: Furnace		Economizer Compliance Method: Air-side economizer provided
	WSEC Equip Efficiency Reference Table - Cooling: Table C403.3.2(1)A - Unitary Air Conditioners & Condensing Units		
	WSEC Equip Efficiency Reference Table - Heating: Table C403.3.2(4) Warm Air Furnaces		

