2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington

Single Family – New & Additions (effective February 1, 2021)

Version 1.0

These requirements apply to all IRC building types, including detached one- and two-family dwellings and multiple single-family dwellings (townhouses).

Project Information	Contact Information
Kumar	

Instructions: This single-family project will use the requirements of the Prescriptive Path below and incorporate the minimum values listed. Based on the size of the structure, the appropriate number of additional credits are checked as chosen by the permit applicant.

Provide all information from the following tables as building permit drawings: Table R402.1 - Insulation and Fenestration Requirements by Component, Table R406.2 - Fuel Normalization Credits and 406.3 - Energy Credits.

Aut	horized Representative	Cores fus	Chris Luthi	Date	07/24/2021	
		All Clima	te Zones (Table R402.1.1)			
		All Cillia	R-Value ^a		U-Factor ^a	
Fen	estration U-Factor ^b		n/a	0.30		
	ight U-Factor ^b		n/a		0.50	
	zed Fenestration SHGC b,e		n/a		n/a	
	ing ^e		49		0.026	
Wo	od Frame Wall ^{g,h}		21 int		0.056	
Floc	or		30		0.029	
Belo	ow Grade Wall ^{c,h}	10/	15/21 int + TB		0.042	
Slab	o ^{d,f} R-Value & Depth		10, 2 ft		n/a	
b	R-values are minimums. <i>U</i> -fathan the label or design thick Table A101.4 shall not be less The fenestration <i>U</i> -factor co "10/15/21 +5TB" means R-10 the interior of the wall, or R-the interior of the basement the interior of the basement means R-5 thermal break be	sness of the insula s than the R-valu lumn excludes sk continuous insu 21 cavity insulation wall. "10/15/21 - wall plus R-5 con	etion, the compressed R-ve e specified in the table. ylights. lation on the exterior of the on plus a thermal break be to the shall be permitted the tinuous insulation on the	alue of the ins ne wall, or R-1 etween the sla o be met with	5 continuous insulation on ab and the basement wall at R-13 cavity insulation on	
d	R-10 continuous insulation is			s. See Section	R402.2.9.1.	
е	For single rafter- or joist-vau extends over the top plate or	Ited ceilings, the	nsulation may be reduced			
f	R-7.5 continuous insulation i slab insulation when applied meet the requirements for tl	to existing slabs	complying with Section R5			
For log structures developed in compliance with Standard ICC 400, log walls shall meet the requirements for climate zone 5 of ICC 400.						
h	Int. (intermediate framing) d framing 16 inches on center, insulation.					

Each dwelling unit *in a residential building* shall comply with sufficient options from Table R406.2 (fuel normalization credits) and Table 406.3 (energy credits) to achieve the following minimum number of credits. To claim this credit, the building permit drawings shall specify the option selected and the maximum tested building air leakage, and show the qualifying ventilation system and its control sequence of operation.

1. Small Dwelling Unit: 3 credits

Dwelling units less than 1,500 sf in conditioned floor area with less than 300 sf of fenestration area. Additions to existing building that are greater than 500 sf of heated floor area but less than 1,500 sf.

2. Medium Dwelling Unit: 6 credits

All dwelling units that are not included in #1 or #3

3. Large Dwelling Unit: 7 credits

Dwelling units exceeding 5,000 sf of conditioned floor area

4. Additions less than 500 square feet: 1.5 credits All other additions shall meet 1-3 above

Before selecting your credits on this Summary table, review the details in Table 406.3 (Single Family), on page 4.

	necting your creats on this summary table, review th		- (-)	7,,, 17.0-
	Summary of Ta	able R406.2		
Heating Options	Fuel Normalization Descriptions		elect ONE g option	User Notes
1	Combustion heating minimum NAECAb	0.0		
2	Heat pump ^c	1.0	•	
3	Electric resistance heat only - furnace or zonal	-1.0		
4	DHP with zonal electric resistance per option 3.4	0.5		
5	All other heating systems	-1.0		
Energy Options	Energy Credit Option Descriptions	energy option	select ONE on from each gory ^d	
1.1	2111111121212111121212121212121212121212	0.5		
1.2	Efficient Building Envelope	1.0		
1.3	Efficient Building Envelope	0.5		
1.4	Efficient Building Envelope	1.0		
1.5	Efficient Building Envelope	2.0		
1.6	Efficient Building Envelope	3.0		
1.7	Efficient Building Envelope	0.5	•	
2.1	Air Leakage Control and Efficient Ventilation	0.5		
2.2	Air Leakage Control and Efficient Ventilation	1.0	•	
2.3	Air Leakage Control and Efficient Ventilation	1.5		
2.4	Air Leakage Control and Efficient Ventilation	2.0		
3.1ª	High Efficiency HVAC	1.0		
3.2	High Efficiency HVAC	1.0		
3.3ª	High Efficiency HVAC	1.5		
3.4	High Efficiency HVAC	1.5		
3.5	High Efficiency HVAC	1.5	•	
3.6ª	High Efficiency HVAC	2.0		
4.1	High Efficiency HVAC Distribution System	0.5	•	
4.2	High Efficiency HVAC Distribution System	1.0		

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	Summary of Table	R406.2 (co	nt.)		
Energy Options	Energy Credit Option Descriptions (cont.)		elect ONE tion from tegory d	Us	ser Notes
5.1 ^d	Efficient Water Heating	0.5			
5.2	Efficient Water Heating	0.5			
5.3	Efficient Water Heating	1.0			
5.4	Efficient Water Heating	1.5			
5.5	Efficient Water Heating	2.0	•		
5.6	Efficient Water Heating	2.5			
6.1 ^e	Renewable Electric Energy (3 credits max)	1.0			
7.1	Appliance Package	0.5	✓		
	Total Credits		7.0	Calculate Total	Clear Form

- a. An alternative heating source sized at a maximum of 0.5 W/sf (equivalent) of heated floor area or 500 W, whichever is bigger, may be installed in the dwelling unit.
- b. Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- c. Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- d. You cannot select more than one option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2 through 5.6. See Table 406.3.
- e. 1.0 credit for each 1,200 kWh of electrical generation provided annually, up to 3 credits max. See the complete Table R406.2 for all requirements and option descriptions.
- f. Use the single radiobutton in the upper right of the second column to deselect radiobuttons in that group.

Please print only pages 1 through 3 of this worksheet for submission to your building official.

	Table 406.3 – Energy Credits (Single Family)	
Option	Description	Credits: SF
1. EFFICIEN	NT BUILDING ENVELOPE OPTIONS	
Only one o	ption from Items 1.1 through 1.7 may be selected in this category.	
	e with the conductive UA targets is demonstrated using Section R402.1.4, Total UA alternative	e, where [1-
(Proposed	UA/Target UA)] > the required %UA reduction.	
1.1	Prescriptive compliance is based on Table R402.1.1 with the following modifications:	0.5
1.1	Vertical fenestration U = 0.24	0.5
1.2	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.20	1.0
1.3	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.28 Floor R-38 Slab on grade R-10 perimeter and under entire slab below grade slab R-10 perimeter and under entire slab or	0.5
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 5%	
1.4	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.25 Wall R-21 plus R-4 ci Floor R-38 Basement wall R-21 int plus R-5 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	1.0
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 15% Prescriptive compliance is based on Table R402.1.1 with the following modifications:	
1.5	Vertical fenestration U = 0.22 Ceiling and single-rafter or joist-vaulted R-49 advanced Wood frame wall R-21 int plus R-12 ci Floor R-38 Basement wall R-21 int plus R-12 ci Slab on grade R-10 perimeter and under entire slab Below grade slab R-10 perimeter and under entire slab or	2.0
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 30%	
1.6	Prescriptive compliance is based on Table R402.1.1 with the following modifications: Vertical fenestration U = 0.18 Ceiling and single-rafter or joist-vaulted R-60 advanced Wood frame wall R-21 int plus R-16 ci Floor R-48 Basement wall R-21 int plus R-16 ci Slab on grade R-20 perimeter and under entire slab Below grade slab R-20 perimeter and under entire slab or	3.0
	Compliance based on Section R402.1.4: Reduce the Total conductive UA by 40%.	
1.7	Advanced framing and raised heel trusses or rafters Vertical Glazing U-0.28 R-49 Advanced (U-0.020) as listed in Section A102.2.1, Ceilings below a vented attic and	0.5
	R-49 vaulted ceilings with full height of uncompressed insulation extending over the wall top plate at the eaves.	

Description Credits: SF		Table 406.3 – Energy Credits (Single Family)	
Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals or For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode. To qualify to claim this credit, the building permit drawings shall specify the option being selected and the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation. Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.65. ¹ Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. ¹ Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.5 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. ¹ Compliance based on Section R40	-	•	Credits: SF
Compliance based on R402.4.1.2: Reduce the tested air leakage to 3.0 air changes per hour maximum at 50 Pascals or For R-2 Occupancies, optional compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.3 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a high efficiency fan(s) (maximum 0.35 watts/cfm), not interlocked with the furance fan (if present). Ventilation systems using a furnace including an ECM motor are allowed, provided that they are controlled to operate at low speed in ventilation only mode. To qualify to claim this credit, the building permit drawings shall specify the option being selected and the maximum tested building air leakage, and shall show the qualifying ventilation system and its control sequence of operation. Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. \(^1\) Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.25 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.75. \(^1\) Compliance based on Section R402.4.1.2: Reduce the tested air leakage to 0.15 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the International Residential Code or Section 403.8 of the International Mechanical Code shall be met with a heat recovery ventilation			
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To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall		air leakage to 0.15 cfm/sf maximum at 50 Pascals and All whole house ventilation requirements as determined by Section M1507.3 of the <i>International Residential Code</i> or Section 403.8 of the <i>International Mechanical Code</i> shall be met with a heat recovery ventilation system with minimum sensible heat recovery efficiency of 0.80. Duct installation shall comply with Section R403.3.7 . ¹	
specify the maximum tested building air leakage and shall show the heat recovery ventilation system.			shall

Option	Description	Credits: 9
HIGH FF	FICIENCY HVAC EQUIPMENT OPTIONS	Ci Cuito.
	ption from Items 3.1 through 3.6 may be selected in this category.	
-	Energy Star rated (U.S. North) Gas or propane furnace with minimum AFUE of 95% <i>or</i>	
3.1 ²	Energy Star rated (U.S. North) Gas or propane boiler with minimum AFUE of 90%. ²	1.0
3.2 ²	Air-source centrally ducted heat pump with minimum HSPF of 9.5. ³	1.0
	Closed-loop ground source heat pump; with a minimum COP of 3.3 or	
3.3^{2}	Open loop water source heat pump with a maximum pumping hydraulic head of 150 feet	1.5
	and minimum COP of 3.6. ³	
	Ductless mini-split heat pump system, zonal control: In homes where the primary space	
3.4	heating system is zonal electric heating, a ductless mini-split heat pump system with a	1.5
5.4	minimum HSPF of 10.0 shall be installed and provide heating to the largest zone of the	1.5
	housing unit. ⁴	
3.5 ²	Air-source, centrally ducted heat pump with minimum HSPF of 11.0. ⁴	1.5
	Ductless split system heat pumps with no electric resistance heating in the primary living	
	areas. A ductless heat pump system with a minimum HSPF of 10 shall be sized and	
3.6 ²	installed to provide heat to entire dwelling unit at the design outdoor air temperature.	2.0
3.0	To qualify to claim this credit, the building permit drawings shall specify the option being	2.0
	selected, the heated floor area calculation, the heating equipment type(s), the minimum	
	equipment efficiency, and total installed heat capacity (by equipment type).	
An alterr	native heating source sized at a maximum of 0.5 W/sf(equivalent) of heated floor area or 500 W, w	hichever is
bigger, n	ay be installed in the dwelling unit.	
	to claim this credit, the building permit drawings shall specify the option being selected and shall	specify
	ng equipment type and the minimum equipment efficiency.	
	to claim this credit, the building permit drawings shall specify the option being selected and shall	specify
the heati	ng equipment type and the minimum equipment efficiency.	
HIGH EF	FICIENCY HVAC DISTRIBUTION SYSTEM OPTIONS	
	All supply and return ducts located in an unconditioned attic shall be deeply buried in	
	ceiling insulation in accordance with Section R403.3.7.	
	ceiling insulation in accordance with Section R403.3.7.	
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selected and shall specify the heating equipment type and shall show the location of the

heating and cooling equipment and all the ductwork.

2018 Washington State Energy Code – Residential Prescriptive Energy Code Compliance for All Climate Zones in Washington

Single Family – New & Additions (effective February 1, 2021)

	Table 406.3 – Energy Credits (Single Family)	
Option	Description	Credits: SF
	ENT WATER HEATING OPTIONS	
Only one	option from Items 5.2 through 5.6 may be selected in this category. Item 5.1 may be combined with any	option.
5.1	A drain water heat recovery unit(s) shall be installed, which captures waste water heat from all and only the showers, and has a minimum efficiency of 40% if installed for equal flow or a minimum efficiency of 54% if installed for unequal flow. Such units shall be rated in accordance with CSA B55.1 or IAPMO IGC 346-2017 and be so labeled. To qualify to claim this credit, the building permit drawings shall include a plumbing diagram that specifies the drain water heat recovery units and the plumbing layout needed to install it. Labels or other documentation shall be provided that demonstrates that the unit complies	0.5
	with the standard. Water heating system shall include one of the following:	
5.2	Energy Star rated gas or propane water heater with a minimum UEF of 0.80. ⁵	0.5
	Water heating system shall include one of the following: Energy Star rated gas or propane water heater with a minimum UEF of 0.91 <i>or</i>	
5.3	Solar water heating supplementing a minimum standard water heater. Solar water heating will provide a rated minimum savings of 85 therms or 2000 kWh based on the Solar Rating and Certification Corporation (SRCC) Annual Performance of OG-300 Certified Solar Water Heating Systems <i>or</i>	1.0
	Water heater heated by ground source heat pump meeting requirements of Option 3.3.	
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency and, for solar water heating systems, the calculation of minimum energy savings.	
	Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier I of NEEA's advanced water heating specification or	
5.4	For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier I of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. ⁵	1.5
	Water heating system shall include one of the following: Electric heat pump water heater meeting the standards for Tier III of NEEA's advanced water heating specification <i>or</i>	
5.5	For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. ⁵	2.0
5.6	Water heating system shall include one of the following: Electric heat pump water heater with a minimum UEF of 2.9 and utilizing a split system configuration with the air-to-refrigerant heat exchanger located outdoors. Equipment shall meet Section 4, requirements for all units, of the NEEA standard <i>Advanced Water Heating Specification</i> with the UEF noted above <i>or</i>	2.5
5.0	For R-2 Occupancy, electric heat pump water heater(s), meeting the standards for Tier III of NEEA's advanced water heating specification and utilizing a split system configuration with the air-to-refrigerant heat exchanger located outdoors, shall supply domestic hot water to all units. If one water heater is serving more than one dwelling unit, all hot water supply and recirculation piping shall be insulated with R-8 minimum pipe insulation. ⁵	2.3
5	Nife to claim this gradit, the building permit drawings shall specify the entire being selected and	

To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall specify the water heater equipment type and the minimum equipment efficiency.

	Table 406.3 – Energy Credits (Single Family)	
Option	Description	Credits: SF
6. RENEWA	ABLE ELECTRIC ENERGY OPTION	
	For each 1200 kWh of electrical generation per housing unit provided annually by on-site wind or solar equipment a 1.0 credit shall be allowed, up to 3 credits. Generation shall be calculated as follows:	
	For solar electric systems, the design shall be demonstrated to meet this requirement using the National Renewable Energy Laboratory calculator PVWATTs or approved alternate by the code official.	
6.1	Documentation noting solar access shall be included on the plans. For wind generation projects designs shall document annual power generation based on the following factors: the wind turbine power curve; average annual wind speed at the site; frequency distribution of the wind speed at the site and height of the tower.	1.0
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the photovoltaic or wind turbine equipment type, provide documentation of solar and wind access, and include a calculation of the minimum annual energy power production.	
7. APPLIAN	ICE PACKAGE OPTION	
7.1	All of the following appliances shall be new and installed in the dwelling unit and shall meet the following standards: Dishwasher – Energy Star rated Refrigerator (if provided) – Energy Star rated Washing machine – Energy Star rated Dryer – Energy Star rated, ventless dryer with minimum CEF rating of 5.2	0.5
	To qualify to claim this credit, the building permit drawings shall specify the option being selected and shall show the appliance type and provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed and connected to utilities. Dryer ducts and exterior dryer vent caps are not permitted to be installed in the dwelling unit.	

Window, Skylight and Door Schedule Project Information Contact Information Kumar Width Height Qt. Feet Inch Feet Inch **U-factor** UA Ref. Area Exempt Swinging Door (24 sq. ft. max.) 0.00 0.0 Exempt Glazed Fenestration (15 sq. ft. max.) 0.0 0.00 **Vertical Fenestration (Windows and doors)** Component Width Height Qt. Feet Inch Feet Inch Description Ref. **U-factor** Area UA 0.28 15.32 entry 6 8 54.7 0.28 8 entry 29.6 8.28 24 0.28 96.0 26.88 stairs 0.28 2 2 office 6.3 1.75 1.5 9 0.28 190.1 53.23 dining 4 0.28 4 4 34.7 9.72 dining 7.5 6 kitchen 0.28 39.8 11.13 0.28 2 8 kitchen 22.7 6.35 5 0.28 kitchen 20.0 5.60 7.5 0.28 22.95 nook 10 82.0 7.5 0.28 3 50.2 14.06 nook 7.5 0.28 18 11 209.3 lr 58.59 lr 0.28 8 52.5 14.70 3 hall 0.28 4 6 24.0 6.72 8 g bed 0.28 12 96.0 26.88 0.28 3 g bed 6 18.0 5.04 2 0.28 16.0 4.48 g bath 1.75 laundry 0.28 6.3 5 0.28 10 50.0 14.00 m bed 5 0.28 4 40.0 11.20 m bed 5 5 0.28 25.0 7.00 m bath bed3 bath 0.28 2 4.0 1.12 11 bed3 0.28 47.3 13.23 0.28 3 bed3 8 24.0 6.72 11 0.28 9 74.8 20.95 foyer 3 70.5 foyer 0.28 19.74 0.28 9 6 54.0 15.12 up hall bed1 0.28 5 5 25.0 7.00 2 8.0 bed1 0.28 2.24 0.28 2 8.0 2.24 up bath bed2 0.28 5 25.0 7.00 0.28 5 5 25.0 7.00 low bed

0.28

8.0

2.24

low bath

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low liv		0.28	3	2	0	2	0	12.0	3.36
low liv		0.28	1	12	0	8	0	96.0	26.88
lobby		0.28	1	12	0	8	0	96.0	26.88
								0.0	0.00
								0.0	0.00
								0.0	0.00
								0.0	0.00
								0.0	0.00
								0.0	0.00
								0.0	0.00
		Cum of Va	utical Fauca	tration	Δre	a and	ΠΔ	1740.5	487.35
									TU1.00
	Vortico		rtical Fenes					1740.5	
	Vertica	Sum or ver I Fenestration						1740.5	0.28
	Vertica							1740.5	
Overhead Glazing (Skylights)	Vertica							1740.3	
Overhead Glazing (Skylights) Component	Vertica			eightea Wid	<i>I U</i> =	UA/A	Area	1740.0	
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Component		l Fenestratio	on Area We	eightea Wid	<i>I U</i> =	UA/A	Area	Area 0.0 0.0 0.0 0.0 0.0	0.28 UA 0.00 0.00 0.00 0.00
Component		l Fenestratio	on Area We	eightea Wid	<i>I U</i> =	UA/A	Area	Area 0.0 0.0 0.0 0.0	0.28 UA 0.00 0.00 0.00
Component		U-factor	Q1	Widt. Fee	Ith Inch	Heig Feet	ht Inch	Area 0.0 0.0 0.0 0.0 0.0 0.0	0.28 UA 0.00 0.00 0.00 0.00 0.00
Component	Ref.	U-factor	Overhead G	Widt. Fee	If U =	Heigh Feeth	ht Inch	Area 0.0 0.0 0.0 0.0 0.0	0.28 UA 0.00 0.00 0.00 0.00

Total Sum of Fenestration Area and UA (for heating system sizing calculations)

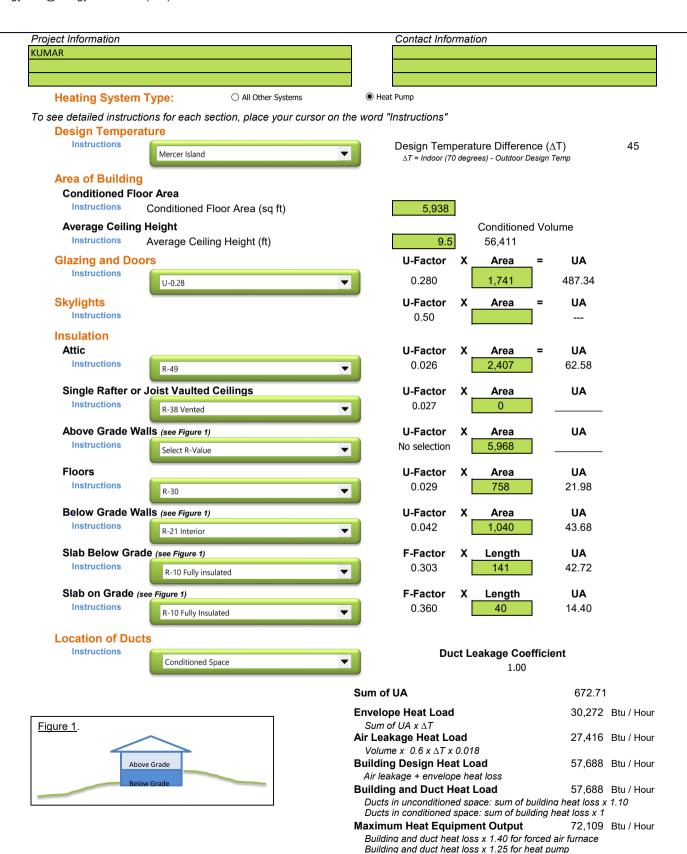
1740.5

487.35

Simple Heating System Size: Washington State

This heating system sizing calculator is based on the Prescriptive Requirements of the 2018 Washington State Energy Code (WSEC) and ACCA Manuals J and S. This tool will calculate heating loads only. ACCA procedures for sizing cooling systems should be used to determine cooling loads.

Please complete the green drop-downs and boxes that are applicable to your project. As you make selections in the drop-downs for each section, some values will be calculated for you. If you do not see the selection you need in the drop-down options, please contact the WSU Energy Program at energycode@energy.wsu.edu or (360) 956-2042 for assistance.



Appliance List for Kumar Residence:

Dishwasher - Cafe' Model CDT845P2NS1 Refrigerator - Cafe' Model CWE23SP2MS1 Washing Machine - LG Model WM4200HWA Dryer - LG Model DLEX4200HW