

Building Envelope Improvements ⑰		④	Credits
1.1	Glazing: U-0.24.		0.5
1.2	Glazing: U-0.20.		1.0
1.3	Glazing: U-0.28, Floors: R38.		0.5
	OR Reduce the total conductive UA by 5%		
1.4	Glazing: U-0.25, Walls: +R4ci, Floor: R38, Below-grade wall: R21 + R5ci.		1.0
	OR Reduce the total conductive UA by 15%		
1.5	Glazing: U-0.22, Ceiling (flat/vaulted): R49 advanced, Walls: +R12ci, Floor: R38, Below-grade wall: R21 + R16ci. OR Reduce the total conductive UA by 30%		2.0
1.6	Glazing: U-0.18, Ceiling (flat/vaulted): R60 advanced, Walls: +R16ci, Floor: R48, Below-grade-wall: R21 + R16ci, Slab: R20 OR Reduce the total conductive UA by 40%		3.0
1.7	Glazing: U-0.28, [Advanced Framing], Ceiling: R49 advanced.		0.5
Air Leakage Control & Efficient Ventilation		④	Credits
2.1	Reduce air leakage to 3 ACH AND whole house ventilation w/ high efficiency fan		0.5
2.2	Reduce air leakage to 2 ACH AND whole house ventilation w/ HRV min. 0.65 ⑥		1.0
2.3	Reduce air leakage to 1.5 ACH AND whole house ventilation w/ HRV min. 0.75 ⑥		1.5
2.4	Reduce air leakage to 0.6 ACH AND whole house ventilation w/ HRV min. 0.80 ⑥		2.0
High Efficiency HVAC		④	Credits
3.1	Min. 95% AFUE fuel-fired furnace ⑦ ① Min. 90% AFUE fuel-fired boiler		1.0
3.2	Air-source centrally ducted heat pump (min. HSPF 9.5) ⑦ ⑧		1.0
3.3	Closed-loop ground heat pump (min. COP 3.3)		1.5
	① OR Open-loop water heat pump (min. COP 3.6) ⑦		
3.4	Ductless mini-split heat pump in primary space w/ no electric resistance heating (min. HSPF 10) for largest zone ⑧		1.5
3.5	Air-source centrally ducted heat pump (min. HSPF 11) ⑦ ⑧		1.5
3.6	① Ductless mini-split heat pump in primary space w/ no electric resistance heating (min. HSPF 10) for entire house ⑦		2.0

REQUIRED CREDITS	
Very Small Additions (additions <500 sf)	1.5
Small Additions (additions ≥500-1500 sf)	3
Small Dwelling (dwellings <1500 and <300 sf of glazing)	3
Medium Dwelling (dwellings and additions ≥1500-5000 sf, sm dwellings with >300 sf of glazing)	6
Large Dwelling (dwelling >5000 sf)	7

Fuel Normalization (heating)		④	Credits
1	Comb. Heating min. NAECA ②		0.0
2	Heat pump ③		1.0
3	Elec. Res. 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
HE HVAC Dist. System		④	Credits
Air handlers located in cond. Space. Ducts: see			
4.1	R403.3.4-7. Duct leakage limit: 3 cfm/100sf of cond. space ⑨		0.5
ALL HVAC/Duct equip. located in conditioned space.			
4.2	Sys. comp. cannot be located in cond. crawlspace. ⑩ Elec. resist. heat/ductless heat pumps not permitted. Dir. Comb. Heating <80% AFUE not permitted.		1.0
Efficient Water (H ₂ O) Heating		④	Credits
5.1	Drain water HRU captures only shower waste water heat ⑫		0.5
5.2	Gas or propane water heater w/ UEF ≥ 0.8 ⑪		0.5
Choose from one of the following:			
5.3	- Gas or propane water heater w/ UEF ≥ 0.91		1.0
	- Solar water heating w/ rated min. savings of 2000kWh (SRCC)		
	- Water heated by ground-source heat pump meeting req. of 3.3		
5.4	Electric heat pump water heater meeting standards for Tier I of NEEA's advance water heating specs ⑪		1.5
5.5	Electric heat pump water heater meeting standards for Tier III of NEEA's advance water heating specs ⑪		2.0
5.6	Elec. heat pump water heater w/ a min. UEF of 2.9 & utilizing split-system config. w/ air-to-refrigerant heat exchanger located outdoors. Equipment shall meet Section 4, requirements for all units, of the NEEA standard Advance water Heating Spec w/ the UEF noted above ⑪		2.5
Renewable Electric Energy ⑤			Credits
6.1	1 credit/1200 kWh generated per housing unit ⑬ ⑭		1.0
Appliance Package			Credits
7.1	Major appliances meet Energy Star requirements ⑮		0.5

RESIDENTIAL COMPLIANCE CHECKLIST

single family construction (not applicable for R-2)
circle credit selections

NOTES

- An alternative heating source sized @ max of 0.5 W/sf of heated floor area or 500W, whichever is bigger, may be installed in the dwelling unit.
- Equipment listed in Table C403.3.2(4) or C403.3.2(5)
- Equipment listed in Table C403.3.2(1) or C403.3.2(2)
- You cannot select more than (1) option from any category EXCEPT in category 5. Option 5.1 may be combined with options 5.2-5.6 See Table 406.3.**
- 1.0 credits for each 1200 kwh of electrical generation provided annually, up to 3 credits max. See complete Table R406.2 for all req. and option descriptions. To qualify to claim this credit, the building permit drawings shall spec the option being selected & shall spec the max tested bldg air leakage & show the HRV sys.
- An alternative heating source sized at a max of 0.5 W/sf of heated flr area or 500W, whichever is bigger, may be installed in the dwelling unit. To qualify to claim this credit, the bldg permit drawings shall spec the option being selected & spec the heating equipment type & the min. equipment efficiency. For mech. equip. outside conditioned space, max 10' return duct & 5' supply duct connections to equipment may be outside deeply buried insul. All metallic ducts outside cond. space must have both transverse & longitudinal joints sealed w/ mastic. If flex ducts are used, they cannot contain splices.
- Bldg permit drawings shall spec option selected & spec heating equipment type & show the location of the heating & cooling equipment & all ductwork. To qualify to claim this credit, the bldg permit drawings shall spec the option being selected and shall spec the water heater equip. type & min. equip. efficiency. Min. efficiency of 40% if installed for equal flow or a min. efficiency of 54% if installed for unequal flow. Such units shall be rated in accordance w/ CSA B55.1 or IAPMO IGC 346-2017 & be labeled.
- To qualify to claim this credit, the bldg permit drawings shall include a plumbing diagram that specs drain water HRU & plumbing layout needed to install it. Labels or other documentation shall be provided that demonstrates that the unit complies w/ the standard. Generation calculated via: 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 B.O.
- Documentation noting solar access shall be included on the plans. For wind generation, project design shall document annual power generations based on the following factors: the wind turbine power curve, average annual wind speed at site, frequency distribution of the wind speed at the site & height of To qualify to claim this credit, the bldg permit drawings shall spec the option being selected & shall show the photovoltaic or wind turbine equipment type, provide documentation of soar & win access, & include a calculation of the min. annual energy power production.
- To qualify to claim this credit, the bldg permit drawings shall spec the option being selected & shall show the appliance type & provide documentation of Energy Star compliance. At the time of inspection, all appliances shall be installed & connected to utilities. Dryer ducts & exterior dryer vent caps are not permitted to be installed in the dwelling unit.
- If A/C is to be installed, provide Manual J showing performance. Inspector may request Manual J prior to final.**
- Building envelope components not mentioned in items 1.1-1.7 shall comply with current WA State Energy Code (Table R402.1.1)**

2018 Washington State Energy Code



HVAC SUMMARY	OSA Duct Size	OSA (Outside Air) Separat	HRV	Efficiency Rating	BTU's	CFM	2018 Washington State Energy Code Insulation Requirements				Adjusted R/U Values per Credit Selections	
							OSa In HVAC	YES	NO	BLDG. Components		WSEC MIN.
							SLAB			R-10, 2ft down perimeter		
							BELOW-GRADE WALL			R-10/15/21 (int) + TB		
							FLOOR			R-30		
							EXT. WALLS			R21 (int)		
							VAULTED CEILING			R-38 (full depth insul. Extend over ext. wall top plate)		
							CEILING W/ ATTIC			R-49		
							SKYLIGHTS			U-0.50		
							WINDOWS			U-0.30		