

BPA Income Qualified Single Family New Construction Energy Conservation: Montana & Idaho Data Collection Tool

Single Family Homes must meet specification requirements according to [Montana & Idaho Specifications for BPA Income Qualified Single Family New Construction Energy Conservation measure](#). Completed data collection tool must be submitted to the electric utility serving the new home. Builder or housing organization certifies that all construction was completed to meet or exceed the minimum requirements as stated. **Version 1**

<i>This Box Only to be Completed by Utility or Third-Party Verifier</i>	
Method of review to ensure compliance with each of the required specifications (select all that apply):	☐ On-Site Inspection ☐ Photo Review ☐ Builder Documentation Review
	☐ Met Specifications ☐ Did Not Meet Specifications

Electric Utility	Completion Date	Permit # <i>Optional</i>
Site Address		
City	State	Zip
Home Type: ☐ Single Family ☐ Other	Total Heated Area of the Home: _____ Sq Ft	
Foundation Type:		

1) Indicate that each of these upgrades is incorporated (all must be selected to qualify):
☐ R-10 slab insulation installed at perimeter for entire depth of slab and under entire slab area
☐ R-38 floor insulation over unconditioned space
☐ U-Factor 0.017 or lower

2) Equipment	
Heating System Type (Check One): ☐ Heat Pump ☐ Electric Resistance (<i>only qualifies if selecting package E</i>)	
Distribution (Check One): ☐ Centrally Ducted ☐ Zonal Ductless	
Heat Pump or Electric Resistance Make:	Heat Pump HSPF2:
Heat Pump or Electric Resistance Model:	
Heating Design Temperature (99.6% outdoor temp)*:	<i>*If design temperature is below 20°F, use 20 °F, use it for T_{HP_Size}, or else use design temperature.</i>

Heat Pump Output Capacity at T _{HP_Size} :		Btu/hr	House Heating Load at T _{HP_Size} :		Btu/hr
Are ducts and air handling equipment located completely inside the building's thermal envelope per "R403.3.2 Ducts Located in Conditioned Space" of the International Energy Conservation Code 2021?		☐ Yes, located inside and meets spec ☐ Located inside but don't meet spec		☐ Not located inside ☐ Not applicable	
Heat Pump Water Heater (only relevant for packages C, D, and E)					
Is this Heat Pump Water Heater on the Residential HPWH Qualified Products List : ☐ Yes ☐ No		Make		Model	

3) Efficiency Packages (All boxes in a single column must be checked for a new home to qualify.)					
	Heat Pumps Only				Electric Resistance Only
	☐ Package A	☐ Package B	☐ Package C	☐ Package D	☐ Package E
Exterior Walls	☐ U-Factor 0.045			☐ U-Factor 0.045	☐ U-Factor 0.045
Windows	☐ U-Factor 0.21			☐ U-Factor 0.21	☐ U-Factor 0.21
Air Sealing		☐ 2.5 ACH50 Pa ^{AA}		☐ 2.5 ACH 50Pa ^{AA}	☐ 2.5 ACH 50Pa ^{AA}
Mechanical Ventilation		☐ 75% HRV ^{BB} & 1.6 cfm/W ^{CC}		☐ 75% HRV ^{BB} & 1.6 cfm/W ^{CC}	☐ 75% HRV ^{BB} & 1.6 cfm/W ^{CC}
Water Heater			☐ Heat Pump Water Heater, Tier 4 ^{DD}	☐ Heat Pump Water Heater, Tier 4 ^{DD}	☐ Heat Pump Water Heater, Tier 4 ^{DD}

Table 3. Footnotes

AA	Air Sealing	The building shall have a maximum air leakage rate of 2.5 air changes per hour at 50 Pascals (2.5 ACH 50Pa) tested in accordance with R402.4.1.2 of the 2021 International Energy Conservation Code.
BB	Mechanical Ventilation	Dwelling units shall be provided with a heat or energy recovery ventilator (HRV) with a minimum sensible heat recovery efficiency of 75% at 32° F at a flow greater than or equal to the design airflow.
CC	Mechanical Ventilation	Fan efficacy for the HRV shall be minimum 1.6 cfm/W in accordance with section R403.6.2 of the 2021 International Energy Conservation Code
DD	Water Heating	Water heater shall be a heat pump water heater at the Tier 4 level, or higher, on the Advanced Water Heating Specification Qualified Products List: https://www.bpa.gov/-/media/Aep/energy-efficiency/document-library/HPWH_Qualified_Product_List.pdf