

Building device cost (\$/unit)

This tab includes a summary of device costs for residential devices

Note: Since an air source heat pump or ground source heat pump provides both air conditioning and space heating services, we allocate all costs for these devices to the space heating device.

Data are from a variety of sources, including NEMS,

Residential Buildings - Device Costs			
Subsector	Technology	Cost Unit	2022
Residential Building Shell _ Large Multi Family	Basic Shell	\$/device	\$ 26,259
Residential Building Shell _ Large Multi Family	Deep Shell	\$/device	\$ 36,365
Residential Building Shell _ Large Multi Family	Reference Shell	\$/device	\$ 3,590
Residential Air Conditioning _ Central	Air Source Heat Pump	\$/device	\$ 38
Residential Air Conditioning _ Central	Central AC	\$/device	\$ 3,776
Residential Air Conditioning _ Central	Efficient Central AC	\$/device	\$ 4,726
Residential Air Conditioning _ Central	Gas Heat Pump	\$/device	\$ 6,580
Residential Air Conditioning _ Central	Ground Source Heat Pump	\$/device	\$ 38
Residential Air Conditioning _ Room	Room AC	\$/device	\$ 590
Residential Air Conditioning _ Room	Efficient Room AC	\$/device	\$ 830
Residential Space Heating _ Large Multi Family	Distillate Boiler	\$/device	\$ 9,320
Residential Space Heating _ Large Multi Family	Distillate Furnace	\$/device	\$ 4,210
Residential Space Heating _ Large Multi Family	Air Source Heat Pump	\$/device	\$ 26,873
Residential Space Heating _ Large Multi Family	Efficient Distillate Boiler	\$/device	\$ 11,585
Residential Space Heating _ Large Multi Family	Efficient Distillate Furnace	\$/device	\$ 6,515
Residential Space Heating _ Large Multi Family	Efficient Gas Boiler	\$/device	\$ 8,975
Residential Space Heating _ Large Multi Family	Efficient Gas Furnace	\$/device	\$ 3,085
Residential Space Heating _ Large Multi Family	Electric Resistance	\$/device	\$ 1,140
Residential Space Heating _ Large Multi Family	Gas Boiler	\$/device	\$ 7,925
Residential Space Heating _ Large Multi Family	Gas Furnace	\$/device	\$ 2,805
Residential Space Heating _ Large Multi Family	Hybrid Oil Electric Heat Pump	\$/device	\$ 26,873
Residential Space Heating _ Large Multi Family	Ground Source Heat Pump	\$/device	\$ 39,974
Residential Space Heating _ Large Multi Family	Hybrid Gas Electric Heat Pump	\$/device	\$ 26,873
Residential Space Heating _ Large Multi Family	LPG Furnace	\$/device	\$ 4,210
Residential Space Heating _ Large Multi Family	Wood Stoves	\$/device	\$ 7,550
Residential Water Heating	Distillate Storage	\$/device	\$ 2,717
Residential Water Heating	Efficient Gas Instant	\$/device	\$ 2,535
Residential Water Heating	Efficient Gas Storage	\$/device	\$ 3,093
Residential Water Heating	Electric Heat Pump Storage	\$/device	\$ 3,267
Residential Water Heating	Electric Resistance Storage	\$/device	\$ 856
Residential Water Heating	Gas Heat Pump Storage	\$/device	\$ 3,093
Residential Water Heating	Gas Instant	\$/device	\$ 2,260
Residential Water Heating	Gas Storage	\$/device	\$ 1,939
Residential Water Heating	LPG Storage	\$/device	\$ 2,260
Residential Water Heating	Solar	\$/device	\$ 2,966