

Heat Pump Sizing Chart

Size for an average house by heated area and winter climate. One ton is 12,000 BTU per hour; sizes are rounded up to the next half ton.

Heated area	Mild, it rarely freezes	Some freezing nights	Cold, snow most winters	Very cold, long hard winters
800 sq ft	16,000 BTU: a 1.5-ton unit	20,000 BTU: a 2-ton unit	24,000 BTU: a 2-ton unit	28,000 BTU: a 2.5-ton unit
1,000 sq ft	20,000 BTU: a 2-ton unit	25,000 BTU: a 2.5-ton unit	30,000 BTU: a 2.5-ton unit	35,000 BTU: a 3-ton unit
1,200 sq ft	24,000 BTU: a 2-ton unit	30,000 BTU: a 2.5-ton unit	36,000 BTU: a 3-ton unit	42,000 BTU: a 3.5-ton unit
1,500 sq ft	30,000 BTU: a 2.5-ton unit	37,500 BTU: a 3.5-ton unit	45,000 BTU: a 4-ton unit	52,500 BTU: a 4.5-ton unit
1,800 sq ft	36,000 BTU: a 3-ton unit	45,000 BTU: a 4-ton unit	54,000 BTU: a 4.5-ton unit	63,000 BTU: two units, 3 + 2.5 tons
2,000 sq ft	40,000 BTU: a 3.5-ton unit	50,000 BTU: a 4.5-ton unit	60,000 BTU: a 5-ton unit	70,000 BTU: two units, 3 + 3 tons
2,400 sq ft	48,000 BTU: a 4-ton unit	60,000 BTU: a 5-ton unit	72,000 BTU: two units, 3 + 3 tons	84,000 BTU: two units, 3.5 + 3.5 tons
3,000 sq ft	60,000 BTU: a 5-ton unit	75,000 BTU: two units, 3.5 + 3 tons	90,000 BTU: two units, 4 + 3.5 tons	105,000 BTU: two units, 4.5 + 4.5 tons

Rule of thumb: mild 20 BTU per sq ft, some freezing nights 25 BTU per sq ft, cold 30 BTU per sq ft, very cold 35 BTU per sq ft.

A tight, well insulated house needs less and a drafty one more. A Manual J load calculation by the installer decides the final size.

From heat-pump-rebates.com/heat-pump-size-calculator/