

Table 4.4 Average heating efficiency for geothermal heat pump shipments, 2008 and 2009
(average coefficient of performance)

Year	Model Type			
	ARI-320	ARI-325/330	ARI-870	Other Non-ARI Rated
2008	4.4	4.0	4.2	3.6
2009	3.9	4.1	4.3	3.8

ARI-320 = Water-Source Heat Pumps.

ARI-325 = Ground Water-Source Heat Pumps.

ARI-330 = Ground Source Closed-Loop Heat Pumps.

ARI-870 = Direct Geexchange Heat Pumps.

Notes: One ton of capacity is equal to 12,000 Btus per hour.

Efficiency is expressed as btus of output per wathours of input. The greater the COP the more efficient the unit.

Source: U.S. Energy Information Administration (EIA), Form EIA-902, "Annual Geothermal Heat Pump Manufacturers Survey."