

# Figure 1: Requirements

## Energy Efficiency Requirements for Geothermal Heat Pumps

Table 1: Tier 1 Requirements (Effective Dec. 1, 2009)

PRODUCT TYPE	EER	COP
WATER-TO-AIR		
Closed Loop Water-to-Air	14.1	3.3
Open Loop Water-to-Air	16.2	3.6
WATER-TO-WATER		
Closed Loop Water-to-Water	15.1	3.0
Open Loop Water-to-Water	19.1	3.4
DGX		
DGX	15.0	3.5

Table 2: Tier 2 Requirements (Effective Jan. 1, 2011)

PRODUCT TYPE	EER	COP
WATER-TO-AIR		
Closed Loop Water-to-Air	16.1	3.5
Open Loop Water-to-Air	18.2	3.8
WATER-TO-WATER		
Closed Loop Water-to-Water	15.1	3.0
Open Loop Water-to-Water	19.1	3.4
DGX		
DGX	16.0	3.6

Table 3: Tier 3 Requirements (Effective Jan. 1, 2012)

PRODUCT TYPE	EER	COP
WATER-TO-AIR		
Closed Loop Water-to-Air	17.1	3.6
Open Loop Water-to-Air	21.1	4.1
WATER-TO-WATER		
Closed Loop Water-to-Water	16.1	3.1
Open Loop Water-to-Water	20.1	3.5
DGX		
DGX	16.0	3.6

Tier 1 requirements became effective Dec. 1, 2009. The second phase of this specification, Tier 2, became effective Jan. 1, 2011.