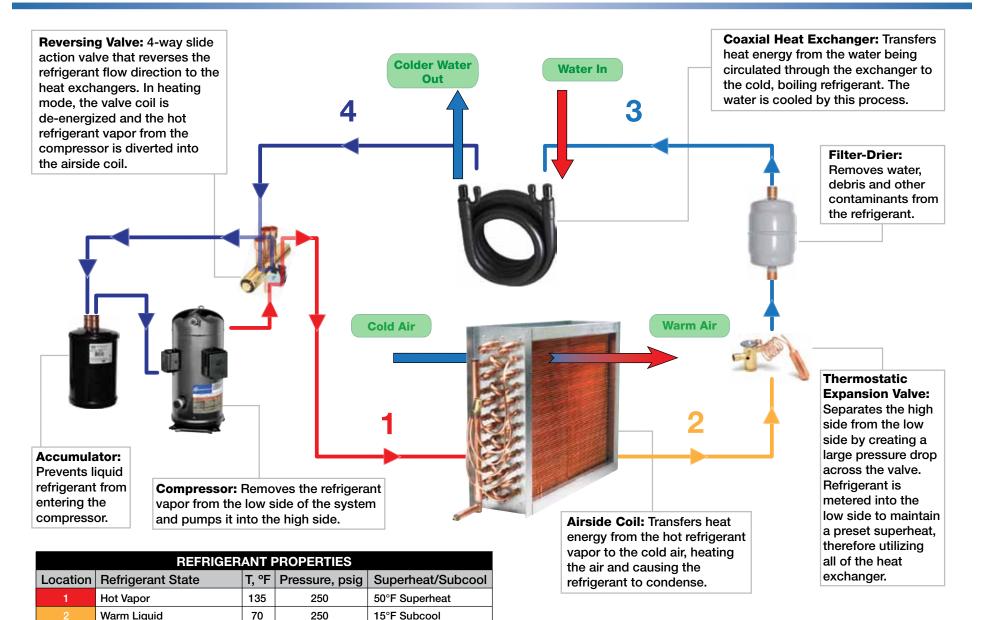
## Heat Pump Refrigeration System – Heating Mode



105 Water entering the coaxial heat exchanger is cooled through the heat being absorbed by the refrigerant and typically leaves about 6°F cooler.

105

~35

45

Saturated Liquid-Vapor Mix

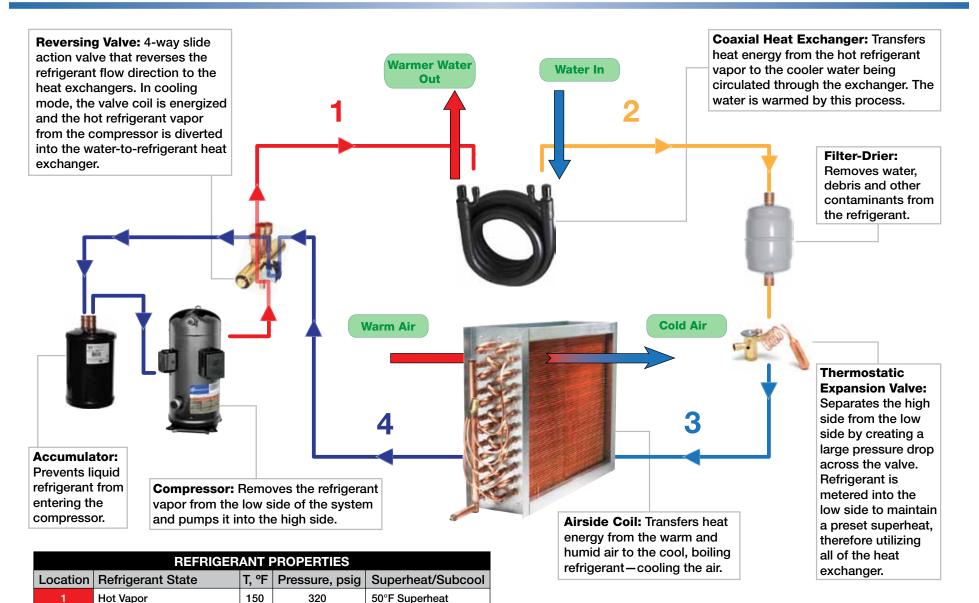
Cold Vapor

4

15°F Subcool

10°F Superheat

## Heat Pump Refrigeration System – Cooling Mode





Water entering the coaxial heat exchanger is warmed by the heat it absorbs from the refrigerant and typically leaves about 10°F warmer.

320

130

130

15°F Subcool

10°F Superheat

85

~45

55

Warm Liquid

Cold Vapor

Saturated Liquid-Vapor Mix

3

4

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