

Solving the water side load equation for flow allows you to predict that based on the air side load you calculated above and the entering and leaving water temperatures you measure at the coil.

$$\left( \frac{Q_{Btu/Hr}}{500 \times (t_{Entering, ^\circ F} - t_{Leaving, ^\circ F})} \right) = Flow_{gpm}$$

Where:

$Q_{Btu/Hr}$  = Load in Btu/hr

500 = Units conversion constant, good for water between 30 and 200°F

$Flow_{gpm}$  = Flow through the heat exchanger in gallons per minute

$t_{Entering, ^\circ F}$  = Temperature entering the heat exchanger in °F

$t_{Leaving, ^\circ F}$  = Temperature leaving the heat exchanger in °F