



RULES OF THUMB – CENTRAL CHILLER

1 Ton = 12,000 BTU/hr

Allow 1 gallon of capacity for each gallon per minute of flow being returned to the tank. Chiller flow rate "*Rule of Thumb*" is 2.4 gpm per ton. Process flow rate is typically double.

Example: Sizing a pump tank system for a 30-ton central chiller

Flow entering tank = flow through chiller (30 tons x 2.4 gpm/ton)
+ Flow through process (30 tons x 4.8 gpm/ton) =
72 gpm + 144 gpm = 216 gpm
Minimum tank size = 216 gallons