AIR CONDITIONING FORMULAS

Heating	Btu/hr	=	GPM x 500 x △T
	1 GPM at 20° △T	=	10,000 Btu/hr
	Btu/hr / 10,000	=	1 GPM (@20° △T)
Cooling	1 ton (CHW)	=	GPM x 500 x △T/12,000
		=	2.4 GPM (@10° △T)
Latent heat	Btu/hr	=	.68 x CFM x △grains
To cool air	Btu/hr	=	CFM x 4.5 x △ enthalpy (enthalpy from psych chart)
	GPM	=	Btu/hr / (500 x △T)
To heat air	Btu/hr	=	CFM x 1.08 x △T
To humidify air	#/hr H_2O	=	CFM x 4.5 x △ grains/7,000
Pump horsepower	HP	=	GPM x ft Head x .0002525/eff
Fan horsepower	HP	=	CFM x static pressure ("H_2O) .000157/eff