SIZING CALCULATIONS FOR ALL IHEAT MODELS

MODELS	TEMPERATURE RISE CHART										
	GALLONS PER MINUTE										
	Watts	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5
AHSH2500	2,800	19	13								
A10	3,500	24	16	12	10						
M-4	3,500	24	16	12	10						
AHSH5000	5,000	34	23	17	14	11					
A67	7,000	48	32	24	19	16	14	12			
M/S-7	7,000	48	32	24	19	16	14	12			
M/S-9	9,000	61	41	31	24	20	17	15	14		
M/S-12	12,000	82	54	41	33	27	23	20	18	16	15
M/S-14	14,000	95	63	48	38	32	27	24	21	19	17
M/S-16	16,000	109	73	54	44	36	31	27	24	22	20
AHS18D	18,000	122	82	61	49	41	35	31	27	24	22
AHS21D	21,000	143	95	71	57	48	41	36	32	29	26
AHS24D	24,000	163	109	82	65	54	47	41	36	33	30
AHS27D	27,000	184	122	92	73	61	52	46	41	37	33

NORTH AMERICA INCOMING WATER TEMPS	
	40°-55°F
	50°-60°F
	55°-65°F
	70°-80°F
	Winter - Summer

STANDARD FAUCETS	GPM
KITCHEN	1-2 gpm
LAVATORY	1-1.5 gpm
CLOTHES WASHER	1.5-2 gpm
BATHTUB	2-3 gpm
SHOWER	1-2 gpm

Desired Water Temp	
Women	110°F-115°F
Men	99°F-110°F

Water Heating Formula
1475W = 10°F Temp Rise @ 1gpm

Sample Calculation		Instructions
Desired Temp	110°F	*Choose your desired output temperature from the chart above, the average desired temp in the country is found above as a guide only.*
(Incoming Temp) subtract	70°F	*Find the State in which you reside in on the chart above enter the winter temp found on the left and place here this is your inlet water temp and subtract from desired temp.*
Temp Rise @1gpm	40°F	*Subtract desired temp from Incoming temp and place answer here*
Application gpm X	2 gpm	*Enter here the total Gpm you plan on heating at one given time, look at the applications chart above*
Temp Rise needed	80°F	*After you multiply the temp rise @ 1 gpm, by actual application gpm, you will have the total Temp rise needed for your desired Temperature*
Heating Formula	x147	*Multiply the temp rise needed by 147 to get total amount of watts needed to achieve the desired output temp*
Total watts needed	11,760W	*Your answer here will be the amount of power (Watts) needed to achieve the desired temperature you are looking for using your applications, keep in mind that this equasion is based only on hot water, you may want to divide this by using your faucets as a guide*