

OAT	3 ton capacity	MJ heat load @ 68F	load with solar gain
68		0	
65	43400	4907	
60	41100	8687	
55	38700	12495	
50	36400	16150	
45	33300	19822	0
40	29200	23377	4139
35	25000	27081	8278
30	23900	31072	12417
25	22800	35078	16556
20	21700	39056	20694
15	20100	43090	24833
10	17800	47137	28972
5	15900	51196	33111

Garage Temp
 slope 0.5504
 Y intercept 30.6

dotted blue line is MJ7 design load (28F)

Load with solar gain
 Slope -827.7778
 Y Intercept 37250
 X intercept 45

Y-intercept that yields 19F balance point
 highest temp with heat call

