

TABLE 1 MOTOR LOAD REFERENCE

AC & Heat Pumps

Description	Hp	Running Load				Starting Load			
		Running kW	Amps at 240V 1Ø	Amps at 208V 3Ø	Amps at 480V 3Ø	Starting kW	LR Amps at 240V 1Ø	LR Amps at 208V 3Ø	LR Amps at 480V 3Ø
1 Ton (12,000 BTU)	1	1	5	3	1	3	25	17	7
2 Ton (24,000 BTU)	2	2	10	7	3	6	50	33	14
3 Ton (36,000 BTU)	3	3	15	10	4	9	75	50	22
4 Ton (48,000 BTU)	4	4	20	13	6	12	100	67	29
5 Ton (60,000 BTU)	5	5	25	16	7	15	125	83	36
7.5 Ton (85,000 BTU)	7.5	7.5	37	24	11	17	188	125	54
10 Ton (120,000 BTU)	5 Hp (x2)	10	49	33	14	15	125	83	36
10 Ton (120,000 BTU)	10 Hp	10	49	33	14	20	250	167	72
15 Ton (180,000 BTU)	7.5 Hp (x2)	15	74	49	21	17	188	125	54
15 Ton (180,000 BTU)	15 Hp	15	74	49	21	30	375	250	108
20 Ton (240,000 BTU)	10 Hp (x2)	20	98	65	28	20	250	167	72
20 Ton (240,000 BTU)	20 Hp	20	n/a	65	28	40	500	333	144
25 Ton (300,000 BTU)	25	25	n/a	82	35	50	625	416	180
30 Ton (360,000 BTU)	15 Hp (x2)	30	n/a	98	42	30	375	250	108
30 Ton (360,000 BTU)	30 Hp	30	n/a	98	42	60	750	500	217
40 Ton (480,000 BTU)	20 Hp (x2)	40	n/a	131	57	40	500	333	144
40 Ton (480,000 BTU)	40 Hp	40	n/a	131	57	80	1000	666	289
50 Ton (480,000 BTU)	25 Hp (x2)	50	n/a	163	71	50	625	416	180
50 Ton (480,000 BTU)	50 Hp	50	n/a	163	71	100	1250	833	361

General Residential

Description	Hp	Running Load			Starting Load		
		Running kW	Amps at 120V 1Ø	Amps at 240V 1Ø	Starting kW	LR Amps 120V 1Ø	LR Amps 240V 1Ø
Refrigerator, Sump Pump, Furnace, Garage Opener	0.5	0.5	4.9	2.5	1.5	25	13
Freezer, Washer, Septic Grinder	0.75	0.75	7.4	3.7	2.3	38	19
General 1 Hp	1	1	9.8	4.9	3	50	25
Well & Septic Lift Pump	2	2	19.6	9.8	6	100	50

TABLE 2 NON-MOTOR LOAD REFERENCE

General Residential

Description	Running Load		
	kW	Amps at 120V 1Ø	Amps at 240V 1Ø
Electric heat per 1000 ft. ²	12	n/a	50
Heat pump elements per 1000 ft. ²	7	n/a	29
Dryer	5.5	n/a	23
Hot tub	5	n/a	21
Range oven	5	n/a	21
Hot water	4.5	n/a	19
Stove top per burner	1.5	n/a	6
General receptacles per 1000 ft. ²	1	8.3	n/a
Lighting per 1000 ft. ²	0.75	6.3	n/a
Blow dryer	1.25	10.4	n/a
Dishwasher	1.5	12.5	n/a
Microwave	1	8.3	n/a
Toasters	1	8.3	n/a