

**TABLE 1**

**MOTOR LOAD REFERENCE**

**Caution:**  
**DO NOT** size the generator based on starting kW alone.  
**YOU MUST** compare LR Amps to generator surge capability (table #3).  
**SIZE** the generator by following the sizing instructions.

**AC & Heat Pumps**

Description	Hp	Running Load				Starting Load				Starting kW	
		Running kW	Amps @ 240V 1Ø	Amps @ 208V 3Ø	Amps @ 240V 3Ø	Amps @ 480V 3Ø	LR Amps @ 240V 1Ø	LR Amps @ 208V 3Ø	LR Amps @ 240V 3Ø		LR Amps @ 480V 3Ø
1 Ton (12,000 BTU)	1	1	5	3	3	1	33	22	19	10	2.5
2 Ton (24,000 BTU)	2	2	10	7	6	3	67	44	38	19	5
3 Ton (36,000 BTU)	3	3	15	10	8	4	100	67	58	29	7.5
4 Ton (48,000 BTU)	4	4	20	13	11	6	117	78	67	34	10
5 Ton (60,000 BTU)	5	5	25	16	14	7	145	97	84	42	12.5
7.5 Ton (90,000 BTU)	7.5	7.5	37	24	21	11	219	146	126	63	17
10 Ton* (120,000 BTU)	5 Hp (x2)	10	49	33	28	14	145	97	84	42	12.5
10 Ton (120,000 BTU)	10 Hp	10	49	33	28	14	250	167	144	72	20
15 Ton* (180,000 BTU)	7.5 Hp (x2)	15	74	49	42	21	219	146	126	63	17
15 Ton (180,000 BTU)	15 Hp	15	74	49	42	21	375	250	217	108	30
20 Ton* (240,000 BTU)	10 Hp (x2)	20	98	65	57	28	250	167	144	72	20
20 Ton (240,000 BTU)	20 Hp	20	n/a	65	57	28	500	333	289	144	40
25 Ton (300,000 BTU)	25	25	n/a	82	71	35	625	416	361	180	50
30 Ton* (360,000 BTU)	15 Hp (x2)	30	n/a	98	85	42	375	250	217	108	30
30 Ton (360,000 BTU)	30 Hp	30	n/a	98	85	42	750	500	433	217	60
40 Ton* (480,000 BTU)	20 Hp (x2)	40	n/a	131	113	57	500	333	289	144	40
40 Ton (480,000 BTU)	40 Hp	40	n/a	131	113	57	1000	666	577	289	80
50 Ton* (600,000 BTU)	25 Hp (x2)	50	n/a	163	142	71	625	416	361	180	50
50 Ton (600,000 BTU)	50 Hp	50	n/a	163	142	71	1250	833	722	361	100

\* For Multiple motor configurations, sequence starting is assumed.

**Air Conditioning**  
 1 hp per 1 ton  
 1 ton = 12,000 BTUs

**General Residential**

Description	Hp	Running Load		Starting Load			
		Running kW	Amps @ 120V 1Ø	LR Amps @ 240V 1Ø	Starting kW	LR Amps @ 120V 1Ø	LR Amps @ 240V 1Ø
Refrigerator pump, 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

# Generator Sizing Calculator For Motor Loads

**Rosina Ehmman**



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