

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 &amp; Heat Pumps

## Running Load

## Starting Load

Description	Hp	Running kW	Amps @ 240V 10	Amps @ 208V 30	Amps @ 240V 30	Amps @ 480V 30	LR Amps @ 240V 30	LR Amps @ 208V 30	LR Amps @ 240V 30	LR Amps @ 480V 30	Starting kW
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	2	67	44	38	19	5
3 Ton (36,000 BTU)	3	3	15	10	8	3	100	67	58	29	7.5
4 Ton (48,000 BTU)	4	4	20	13	11	4	133	78	67	34	10
5 Ton (60,000 BTU)	5	5	25	16	14	5	165	97	84	42	12.5
7.5 Ton (85,000 BTU)	7.5	7.5	37	24	21	7.5	219	146	126	63	17.5
10 Ton* (120,000 BTU)	5 Hp (x2)	10	49	35	28	14	145	97	84	42	25
10 Ton* (120,000 BTU)	10 Hp	10	49	35	28	14	250	167	144	72	25
15 Ton* (180,000 BTU)	7.5 Hp (x2)	15	74	49	42	21	219	146	126	63	17.5
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	98	65	57	28	500	333	289	144	40
25 Ton (300,000 BTU)	25	25	118	82	71	35	425	416	361	180	50
30 Ton* (360,000 BTU)	15 Hp (x2)	30	118	98	85	42	375	350	317	168	30
30 Ton (360,000 BTU)	30 Hp	30	118	98	85	42	750	500	433	217	60
40 Ton* (480,000 BTU)	20 Hp (x2)	40	131	113	57	57	500	333	289	144	40
40 Ton (480,000 BTU)	40 Hp	40	131	113	57	57	1000	666	577	289	80
50 Ton* (600,000 BTU)	25 Hp (x2)	50	143	142	71	625	416	361	180	50	50
50 Ton (600,000 BTU)	50 Hp	50	143	142	71	625	833	722	361	100	100

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

Air Conditioning  
 1 hp per 1 ton  
 1 ton = 12,000 BTUS

## General Residential

## Running Load

## Starting Load

Description	Hp	Running kW	Amps @ 120V 10	4.9Amps @ 240V 10	Starting kW	LR Amps @ 120V 10	LR Amps @ 240V 10
Refrigerator pump, sump, 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

**IM Harris**

## Generator Sizing Calculator For Motor Loads:

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