

# RENTAL GENERATORS & AIR COMPRESSORS



Stewart & Stevenson offers three engine-driven generator systems—MQ Power, MTU Onsite Energy and Atlas Copco—for industrial, residential, and communications applications. Choose from single or parallel, skid-mounted or trailer-mounted, sound attenuated generators ranging from 50–2000 kW. Our units are industrial grade and can be utilized for standby and /or prime power applications, including new construction, municipal, disaster relief and hospital applications.

## Rental Generator Features

- Meet or exceed all EPA and CARB emission standards
- Double-walled fuel tank with 24-hour on-board fuel capacity (see specifications)
- Single-point lifting capability
- 3-way fuel valve to easily connect external fuel source for extended run
- Lockable external fuel fill source
- Customer-convenient cable connections
- Oil-field duty skids or trailer mounted
- Backup (reserve) lube oil makeup tank
- Environmental fuel spill containment
- Double-walled remote fuel cells
- 50 Hz or 60 Hz operation capability, single- or three-phased voltages
- Hi/Lo voltage switchover or simultaneous dual voltage
- Oversized alternator for superior motor starting capability
- Overspeed protection
- Remote operation and monitoring for units 500 kW and above
- Customer-convenient electrical outlet
- GFI distribution and cable available

## Compressors

Stewart & Stevenson offers a full line of air compressors—electric, oil free and diesel powered units offering from 20 cfm to 1600 cfm for stationary and portable applications—along with a line of compressed air equipment.

Rental fleet units from Stewart & Stevenson are designed to service all needs:

- Diesel and electric oilfree compressors from 785 to 1500 cfm
- Diesel- and electric-driven air compressors from 185 to 1600 cfm, 80 to 500 psi
- Compressed air treatment equipment including:
  - Aftercoolers (5–20 °F) remove 65–70% of moisture from compressed air
  - Refrigerated and desiccant air dryers from 10 to 20,000 cfm (+38 to -100 °F dew point)
  - Compressed air filters to supply instrument-quality air
  - Hose and cable are available



# RENTAL GENERATORS & AIR COMPRESSOR SPECIFICATIONS



## Equipment Specifications

GENERATOR (KW)	WET WEIGHT (LB)		DIMENSIONS (FT IN)			Avg. Consump. @ full load (gph)	FUEL	
	With 8-hr tank	With 24-hr tank	L	W	H		Tank Cap. for 8-hr (gal)	Tank Cap. for 24-hr (gal)
60 Hz @1800 rpm								
56	-	3984	15'3"	6'8"	7'	3.9	-	127
60	-	5750	9'	5'	6'	4.6	-	116
65	-	5614	13'5"	6'	6'	4.8	-	130
68	-	5650	15'3"	7'	7'	4.8	-	130
100	-	7185	16'	7'	8'	7.2	-	169
120	-	7200	16'	7'	8'	8.5	-	214
144	-	7211	19'	7'	9'	10.6	-	300
176	-	8500	19'	7'	9'	12.6	-	320
200	-	11001	14'	6'	7'	15	-	400
240	-	14000	20'	8'	9'	16.7	-	490
320	-	16800	21'	7'	10'	20.6	-	500
480	-	42000	32'	8'	12'	33.8	-	1000
550	-	29980	20'	8'	12'	40	-	1000
640	-	48000	30'	8'	12'	43	-	1200
700	52500	-	40'	8'	12'	56	500	-
750	52500	-	40'	8'	12'	56	500	-
800	44500	-	30'	8'	13'	49	1000	-
1000	45200	-	40'	8'	13'	69	1000	-
1350	75000	-	40'	8'	13'	85	1000	-
1500	53220	-	40'	8'	13'	87	1200	-
2000	85260	-	40'	8'	13'	124	1600	-

\* Noted units above do include trailer. As technology advances, the above specifications may change to better serve our customers. Dimensions do not include trailer.

## Useful Electrical Formulas

To Obtain	Single Phase†	Three Phase†
Kilowatts	$\frac{V \times L \times PF}{1000}$	$\frac{1.732 \times V \times L \times PF}{1000}$
kV-A	$\frac{V \times L}{1000}$	$\frac{1.732 \times V \times L}{1000}$
Horsepower required when generator kW unknown (if generator efficiency is unknown, use 0.93)	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$	$\frac{kW}{0.746 \times \text{Efficiency (Generator)}}$
kW input when motor hp known (if motor efficiency is unknown, use 0.85 x hp)	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$	$\frac{HP \times 0.746}{\text{Efficiency (Motor)}}$
Amperes when motor hp is known	$\frac{HP \times 0.746}{V \times PF \times \text{Efficiency}}$	$\frac{HP \times 0.746}{1.732 \times V \times PF \times \text{Efficiency}}$
Amperes when kW is known	$\frac{kW \times 1000}{V \times PF}$	$\frac{kW \times 1000}{1.732 \times V \times PF}$
Amperes when kW-A is known	$\frac{kV-A \times 1000}{V}$	$\frac{kV-A \times 1000}{1.732 \times V}$

## Air Compressor Specifications

### Electric Motor Driven

CFM	Pressure Range*	Motor Horsepower
98	80-125 psi	25
200	80-125 psi	50
340	80-125 psi	75
450	80-125 psi	100
670	80-125 psi	150
785	80-125 psi	200 Oil free
900	80-125 psi	200
380-970	100-175 psi	100-200 Variable speed

### Diesel Engine Driven

CFM	Pressure Range*
300	80-200 psi
375	80-150 psi
425	80-125 psi
750	80-150 psi
900	80-150 psi
950	80-150 psi
1150	175-350 psi
900/1150	200-500 psi
1300	250-365 psi
1600	80-150 psi

\* Volume flow will be at a specific pressure. Some models have adjustable flow and pressure.



**kV-A / kW Amperage Chart: 80% Power Factor**

kVA	kW	208V	220V	240V	380V	400V	440V	450V	480V	600V	2400V	3300V	4160V
6.3	5.0	17.5	16.5	15.2	9.6	9.1	8.3	8.1	7.6	6.1			
9.4	7.5	26.1	24.7	22.6	14.3	13.6	12.3	12.0	11.3	9.1			
12.5	10.0	34.7	33.0	30.1	19.2	18.2	16.6	16.2	15.1	12.0			
18.7	15.0	52.0	49.5	45.0	28.8	27.3	24.9	24.4	22.5	18.0			
25.0	20.0	69.5	66.0	60.2	38.4	36.4	33.2	32.4	30.1	24.0	6.0	4.4	3.5
31.3	25.0	87.0	82.5	75.5	48.0	46.5	41.5	40.5	37.8	30.0	7.5	5.5	4.4
37.5	30.0	104.0	99.0	90.3	57.6	54.6	49.8	48.7	45.2	36.0	9.1	5.6	5.2
50.0	40.0	139.0	132.0	120.0	77.0	73.0	66.5	65.0	60.0	48.0	12.1	8.8	7.0
62.5	50.0	173.0	165.0	152.0	96.0	91.0	83.0	81.0	76.0	61.0	15.1	10.9	8.7
75.0	60.0	208.0	198.0	181.0	115.0	109.0	99.6	97.5	91.0	72.0	18.1	13.1	10.5
93.8	75.0	261.0	247.0	226.0	143.0	136.0	123.0	120.0	113.0	90.0	22.6	16.4	13.0
100.0	80.0	278.0	264.0	240.0	154.0	146.0	133.0	130.0	120.0	96.0	24.1	17.6	13.9
125.0	100.0	347.0	330.0	301.0	192.0	182.0	166.0	162.0	150.0	120.0	30.1	21.8	17.5
156.0	125.0	433.0	413.0	375.0	240.0	228.0	208.0	204.0	188.0	150.0	38.0	27.3	22.0
187.0	150.0	520.0	495.0	450.0	288.0	273.0	249.0	244.0	225.0	180.0	45.0	33.0	26.0
219.0	175.0	608.0	577.0	527.0	335.0	318.0	289.0	283.0	264.0	211.0	53.0	36.0	31.0
250.0	200.0	694.0	660.0	601.0	384.0	364.0	332.0	324.0	301.0	241.0	60.0	44.0	35.0
312.0	250.0	866.0	825.0	751.0	480.0	455.0	415.0	405.0	376.0	300.0	75.0	55.0	43.0
375.0	300.0	1040.0	990.0	903.0	576.0	546.0	498.0	487.0	451.0	361.0	90.0	66.0	52.0
438.0	350.0	1220.0	1155.0	1053.0	672.0	637.0	581.0	568.0	527.0	422.0	106.0	77.0	61.0
500.0	400.0	1390.0	1320.0	1203.0	770.0	730.0	665.0	650.0	602.0	481.0	120.0	86.0	69.0
625.0	500.0	1735.0	1650.0	1504.0	960.0	910.0	830.0	810.0	752.0	602.0	150.0	109.0	87.0
750.0	600.0	2080.0	1980.0	1803.0	1150.0	1090.0	996.0	975.0	902.0	721.0	180.0	131.0	104.0
875.0	700.0	2430.0	2310.0	2104.0	1344.0	1274.0	1162.0	1136.0	1052.0	842.0	210.0	153.0	121.0
1000.0	800.0	2780.0	2640.0	2405.0	1540.0	1460.0	1330.0	1300.0	1203.0	962.0	241.0	176.0	139.0
1125.0	900.0	3120.0	2970.0	2709.0	1730.0	1640.0	1495.0	1460.0	1354.0	1082.0	271.0	197.0	156.0
1250.0	1000.0	3470.0	3300.0	3009.0	1920.0	1820.0	1660.0	1620.0	1504.0	1202.0	301.0	218.0	174.0
1563.0	1250.0	4350.0	4130.0	3765.0	2400.0	2280.0	2080.0	2040.0	1885.0	1503.0	376.0	273.0	218.0
1875.0	1500.0	5205.0	4950.0	4520.0	2880.0	2730.0	2490.0	2440.0	2260.0	1805.0	452.0	327.0	261.0
2188.0	1750.0			5280.0	3350.0	3180.0	2890.0	2830.0	2640.0	2106.0	528.0	380.0	304.0
2500.0	2000.0			6020.0	3840.0	3640.0	3320.0	3240.0	3015.0	2405.0	602.0	436.0	348.0
2812.0	2250.0			6780.0	4320.0	4095.0	3735.0	3645.0	3400.0	2710.0	678.0	491.0	392.0
3130.0	2500.0			7520.0	4800.0	4560.0	4160.0	4080.0	3765.0	3005.0	752.0	546.0	435.0
3750.0	3000.0			9040.0	5760.0	5460.0	4980.0	4880.0	4525.0	3610.0	904.0	654.0	522.0
4375.0	3500.0			10550.0	6700.0	6360.0	5780.0	5660.0	5285.0	4220.0	1955.0	760.0	610.0
5000.0	4000.0			12040.0	7680.0	7280.0	6640.0	6480.0	6035.0	4810.0	1204.0	872.0	695.0



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