

TYPICAL ELECTRICAL REQUIREMENTS

MOBILE - CON-E-CO LoPro 327SHP Dry Concrete Batch Plant

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10:22 AM

It is very important to keep your electric utility company coordinated with your power requirements. The equipment listed below should be combined with other site loads such as area lighting, charging equipment, office HVAC, mixers, etc. If you are using an on site generator, we would be happy to coordinate a more detailed analysis of voltage stabilization and locked rotor amps with the company you select to supply the generator. Transformer sizes listed below assume a 96% eff., an impedance of .035 to calculate voltage drop, the largest motor is Code G, and show standard available size 3 phase transformers.

Setup for **460 Volt operation.**

Main Feed System						Wire Size	
	HP	FLA	CB	Str	Heater	Min	Normal
1.5 KVA Transformer		3.26					
Cement 1 Feed A	20.00	24.40	60	#2	B40	8	8
Cement 1 Feed B	20.00	24.40	60	#2	B40	8	8
Cement 2 Feed	40.00	47.60	90	#3	CC74.6	6	6
Cement Batcher	20.00	24.40	60	#2	B40	8	8
Agg Incline Conv.	20.00	24.40	60	#2	B40	8	8
Agg Batcher Belt	15.00	17.90	45	#2	B32	10	4
L. P. Blower	5.00	6.80	15	#0	B10.2	14	10
Air Compressor	10.00	12.80	30	#1	B22	12	8
Baghouse Blower	15.00	17.90	45	#2	B32	10	4
Transfer Blower	7.00	8.00	20	#1	B12.8	14	8
Radial Conveyor	30.00	34.30	80	#3	CC59.4	8	8
Traversing Drive	2.00	2.80	15	#00	B4.15	14	12
If not all motors run concurrently, *Amps not included in total.							
Total Connected	204.00	248.96					
+25% of Largest Mot	40.00	11.90				Actual	
Running Design Load		260.86	Running Design			207.83	KVA
+5 x Largest Motor		238.00					
Starting Design Load		498.86	Starting Design			397.45	KVA
225 KVA Transf. Volt Drop	6.44%	Starting, and			3.37%	when running.	
300 KVA Transf. Volt Drop	4.83%	Starting, and			2.53%	when running.	