

100% load - Standard Motor

Qty	Motor Size	Efficiency @ 100%	Input Power /Motor/Hour [kW]	Power Use/Hour [kW]	Total Power Consumption (12Hrs) [kWh]
150	3	0,819	3,66	549,45	6593,41
110	7,5	0,868	8,64	950,46	11405,53
60	15	0,893	16,80	1007,84	12094,06
40	55	0,932	59,01	2360,52	28326,18

75% load - Standard 55 kW Motor

Qty	Motor Size	Efficiency @ 75%	Input Power Required/Motor/Hou	Total Power Use/Hour [k	Total Power Consumption (4Hrs) [kWh]
40	55	0,942	58,39	2335,46	9341,83

Daily Usage[kWh]:	67761,01
Monthly Usage [kWh]:	2032830,23
Monthly Cost [R]:	575047,02

100% load - Premium Motor

Qty	Motor Size	Efficiency @ 100%	Input Power Required/Motor/Hou	Total Power Use/Hour [k	Total Power Consumption (12Hrs) [kWh]
150	3	0,875	3,43	514,29	6171,43
110	7,5	0,893	8,40	923,85	11086,23
60	15	0,915	16,39	983,61	11803,28
40	55	0,942	58,39	2335,46	28025,48

75% load - Premium 55 kW Motor

Qty	Motor Size	Efficiency @ 75%	Input Power Required/Motor/Hou	Total Power Use/Hour [k	Total Power Consumption (4Hrs) [kWh]
40	55	0,952	57,77	2310,92	9243,70

Daily Usage[kWh]:	66330,11
Monthly Usage [kWh]:	1989903,259
Monthly Cost [R]:	562903,83

Savings from Premium Motors:

12143,18