

PLANT 4 ENERGY USAGE

Document Reference: C7.4

Name of Motor	Power Rating - kW	Running Time per Cycle - Minutes	Voltage - V	Running Current - Amps	For Single Phase Motor	Estimated Consumed Power per hour kWh
Vacuum Pump_1	5.50	30.00	415.00	13.25		2.75
Pressure Pump	5.50	51.00	415.00	13.25		4.68
Air Compressor	5.50	44.00	415.00	13.25		4.03
Water Pump	1.50	4.10	415.00	3.61		0.10
Concentrate Pump	0.46	5.00	415.00	1.11		0.04
Tanagard Pump	0.10	5.00	415.00	0.24		0.01

Unit cost per kW Hour.	£0.72
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Name of Motor	Power Rating	Running Time per Cycle - Minutes	Running Time (Hours)	kW Hours		kJ	Cost per kilowatt hour	Cost per kilojoule
Vacuum Pump_1	2.75	30.00	0.500	1.375		4950.0	£0.99	£0.99
Pressure Pump	4.68	51.00	0.850	3.974		14305.5	£2.86	£2.86
Air Compressor	4.03	44.00	0.733	2.958		10648.0	£2.13	£2.13
Water Pump	0.10	4.10	0.068	0.007		25.2	£0.01	£0.01
Concentrate Pump	0.04	5.00	0.083	0.003		11.5	£0.00	£0.00
Tanagard Pump	0.01	5.00	0.083	0.001		2.5	£0.00	£0.00
Total Running Time		139.10	2.32					
Electricity Unit Cost				Total kW Hours		Total kJ.	£0.72	£0.00020
Total Energy				8.32		29942.72		
Total Cost / charge							£5.99	£5.99
No. of charges per year			684	Total cost per year			£4,096.16	