

PLANT 1 ENERGY USAGE

Document Reference: C7.1

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	11.00	30.00	415.00	26.51		5.50
Pressure Pump	5.50	30.00	415.00	13.25		2.75
Air Compressor	5.50	44.00	415.00	13.25		4.03
Empty Pump	3.00	21.00	415.00	7.23		1.05
Water Pump	1.50	8.00	415.00	3.61		0.20
Concentrate Pump	0.46	5.00	415.00	1.11		0.04
Tanagard Pump	0.10	5.00	415.00	0.24		0.01
Tanatone / Extra Pump	0.46	2.00	415.00	1.11		0.02

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	5.50	30.00	0.500	2.750		9900.0	£1.98	£1.98
Pressure Pump	2.75	30.00	0.500	1.375		4950.0	£0.99	£0.99
Air Compressor	4.03	44.00	0.733	2.958		10648.0	£2.13	£2.13
Empty Pump	1.05	21.00	0.350	0.368		1323.0	£0.26	£0.26
Water Pump	0.20	8.00	0.133	0.027		96.0	£0.02	£0.02
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
Tanatone / Extra Pump	0.02	2.00	0.033	0.001		1.8	£0.00	£0.00
Total Running Time		145.00	2.42					
Electricity Unit Cost				Total kW Hours		Total kJ.	£0.72	£0.00020
Total Energy				7.48		26932.84		
Total Cost / charge							£5.39	£5.39
No. of charges per year			775	Total cost per year			£4,174.59	