Alliance

Manufacturing, Inc.

Machine Operation Cost Analysis

The following table is a list of the information required to use the "Machine Operation Cost Analysis". You may want to consider printing a hard copy to gather the information required to complete your analysis. Information related to number of shifts, hours per day, cost of electricity/gas, etc. will need to be gathered internally. Other information such as tank volumes, motor horsepower, gas or electric heat ratings will generally be listed in the manufacturer's quotation specifications.

For multiple tank systems, include all the required information for each tank. Lack of inputs or incorrect information will yield incorrect results.

For questions concerning the following required values, please call 1-800-969-7960.

Customer Entered values			**Notes**
Number of weeks operating/year		weeks/year	
Number of days operating/week		days/week	
Number of shifts/day		shifts	
Number of hours/shift		hours	
Electricity cost ($/kwh)		$/kwh	
Natural gas cost ($/Therm)		$/therm	
Additional equipment cost for gas vs. electric		$	
Additional installation costs for gas vs. electric		$	
Solution Heat			
Tank #1			
Solution heat-electric		kw	
Solution heat-gas		btu/hr	
Tank #2			
Solution heat-electric		kw	
Solution heat-gas		btu/hr	
Tank #3			
Solution heat-electric		kw	
Solution heat-gas		btu/hr	
Tank #4			
Solution heat-electric		kw	
Solution heat-gas		btu/hr	
Tank #5			
Solution heat-electric		kw	
Solution heat-gas		btu/hr	
Blowoff Heat			
Air heat-electric		kw	
Air heat-gas		btu/hr	

1368 Capital Drive • Fond du Lac, WI 54937
800-969-7960 • 920-922-8100 • Fax 920-922-9500
www.alliancemfginc.com • E-mail: sales@alliancemfginc.com

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Customer Entered values			**Notes**
Water/Sewer			
Cost of water (dollars/cubic feet)		$/ccf	
Sewer charge (dollars/cubic feet)		$/ccf	
Estimated bath changes per year		# of days	
Tank #1			
Pump motor HP		HP	
Tank volume (gallons)		gallons	
Chemical cost (dollars)		$/gallon	
Chemical concentration (%)		%	
Tank #2			
Pump motor HP		HP	
Tank volume (gallons)		gallons	
Chemical cost (dollars)		$/gallon	
Chemical concentration (%)		%	
Tank #3			
Pump motor HP		HP	
Tank volume (gallons)		gallons	
Chemical cost (dollars)		$/gallon	
Chemical concentration (%)		%	
Tank #4			
Pump motor HP		HP	
Tank volume (gallons)		gallons	
Chemical cost (dollars)		$/gallon	
Chemical concentration (%)		%	
Tank #5			
Pump motor HP		HP	
Tank volume (gallons)		gallons	
Chemical cost (dollars)		$/gallon	
Chemical concentration (%)		%	
Ambient /Regenerative/Heated Blowoff			
Blower motor #1 (HP)		HP	
Blower motor #2 (HP)		HP	
Additional Motors			
Drive motor		HP	
Oil skimmer		HP	
Exhaust fan #1		HP	
Exhaust fan #2		HP	
Intermediate blowoff blower #1		HP	
Intermediate blowoff blower #2		HP	
Other motor #1		HP	
Other motor #2		HP	
Other motor #3		HP	