

Project Title: Sample Project

Project ID: 30206

Project Manger: T.M.

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Sheet: 1 of 1

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### CENTRIFUGAL PUMP MOTOR HP CALCULATION

**Notes:**

CHW-P1

$$BHP = \frac{GPM \times HD \times SpecificGravity}{3960 \times PumpEfficiency}$$

$$MotorHP = \frac{BHP}{Motor / DrvieEfficiecny}$$

Pump Motor HP		Unit	Remarks
Pump GPM	400	GPM	Design Flow
Pump Head (HD)	34	ft	Calc. from Form 2A
Specific Gravity	1.0		Water at 60F
Pump Efficiency	76%		Typical: 60% to 80%
Break HP =	4.52	BHP	
Motor/Drive Efficiency	85%		Typical: 85% to 90%
<b>Motor HP =</b>	<b>5.32</b>	HP	

**REMARKS:**

Preliminary Calc.