



# Hydronic Pump Report

PROJECT: Kathleen Rossow Elementary  
LOCATION: Sioux Falls, SD

DATE: October 24, 2006  
TECHNICIAN: Joe Balancer

SYSTEM/UNIT: Pump-01

REF # D7-1

Unit Data	
Pump Manufacturer	Taco
Pump Model Number	12345ABCD
Pump Serial Number	12345ABCDE
Pump Flowrate (GPM)	3 GPM
Required NPSH	20

Starter Data	
Starter Manufacturer	Square D
Starter Model	HT-40
Installed Thermal	35
Rating (Amps)	40 Amps
Required Thermals	33
Required Amps	35 Amps
Thermals Set at:	33

Final Test Data	
Final D.P.	48 PSI (110.88 ft. head)
Final S.P.	18 PSI (41.58 ft. head)
Final Press. Diff. Design	30 PSI (69.30 ft. head)
Final Press. Diff. Actual	30 PSI (69.30 ft. head)
Final GPM Design	175 GPM
Final GPM Actual	172 GPM
Motor Volts 1	462 Volts
Motor Volts 2	464 Volts
Motor Volts 3	460 Volts
Motor Amps 1	7.90 Amps
Motor Amps 2	8.10 Amps
Motor Amps 3	8.20 Amps

Motor Data	
Motor Manufacturer	Magnatek
Motor Frame	48T
Motor HP	5 HP
Motor RPM	1750 RPM
Motor Rated Volts	460 Volts
Motor Phase	3
Motor Hertz	60 Hz
Motor F.L. Amps	12.80 Amps
Motor S.F.	1.15
Motor Seal Type	Steel
Pump Impeller Diam.	3.50

Measured Test Data	
Pump Off Pressure	20 PSI (46.20 ft. head)
Valve Shut D.P.	58 PSI (133.98 ft. head)
Valve Shut S.P.	18 PSI (41.58 ft. head)
Valve Shut Diff.	40 PSI (92.40 ft. head)
Valve Open D.P.	48 PSI (110.88 ft. head)
Valve Open S.P.	18 PSI (41.58 ft. head)
Valve Open Diff.	30 PSI (69.30 ft. head)
Valve Open GPM	175 GPM
Ind. Valve Sett.	100 %
Ind. Imp. Diam.	8 in.

NOTES: