



Exhaust Fan Unit Report

PROJECT: Kathleen Rossow Elementary
LOCATION: Sioux Falls, SD

DATE: October 24, 2006
TECHNICIAN: Joe Balancer

SYSTEM/UNIT: Fan-01

AREA: Classroom 201

REF #

D3-1

Unit Data	
Fan Manufacturer	Magnatek
Fan Model Number	123456ACGF
Fan Serial Number	1456DGHSY
Rated CFM	1000 CFM

Starter Data	
Starter Manufacturer	Square D
Starter Model No.	HT-40
Starter Size	40
Installed Thermal	35
Rating (Amps)	40 Amps
Required Thermals	33
Required Amps	35 Amps

Test Data	
Total CFM Design	900 CFM
Total CFM Actual	868 CFM
Fan RPM Design	1000 RPM
Fan RPM Actual	998 RPM
Motor Volts 1	471 Volts
Motor Volts 2	475 Volts
Motor Volts 3	477 Volts
Motor Amps 1	11.80 Amps
Motor Amps 2	12.10 Amps
Motor Amps 3	12.50 Amps
SP In Design	0.25 in. wc
SP In Actual	0.21 in. wc
SP Out Design	0.15 in. wc
SP Out Actual	0.19 in. wc
Total SP Design	0.31 in. wc
Total SP Actual	0.29 in. wc

Motor Data	
Motor Manufacturer	Magnatek
Motor Frame	48T
Motor HP	10 HP
Motor RPM	1750 RPM
Motor Rated Volts	460 Volts
Motor Phase	3
Motor Hertz	60 Hz
Motor FL Amps	12.80 Amps
Motor Service Factor	1.15
Nominal Efficiency	0.80 %
Power Factor	1.20

Sheave Data	
Motor Sheave Model	4VP34
Motor Sheave Diam.	3.50 in.
Motor Sheave Bore	0.50 in.
Fan Sheave Model	4VP60
Fan Sheave Diam.	5.75 in.
Fan Sheave Bore	0.75 in.
Number of Belts	3
Belt Size	220 in.
Sheave Center Line	28 in.

NOTES: