



Air Handling Unit Report

PROJECT: Kathleen Rossow Elementary
LOCATION: Sioux Falls, SD

DATE: October 24, 2006
TECHNICIAN: Joe Balancer

SYSTEM/UNIT: AHU-01

AREA: Classroom 101

REF #

D1-1

Unit Data	
Unit Manufacturer	Trane
Unit Model Number	123455ABCD
Unit Serial Number	1234567AB1
Unit Discharge	Horizontal
<u>AHU-01 / SF Filter Bank</u>	
Filter Manufacturer	FARR
Filter Type	Pleated
Filter Quantity	6
Filter Size	12 x 24 x 2
<u>AHU-01 / Supply Fan</u>	
Brake Horsepower	
Motor Efficiency	0.80 %
Motor Power Factor	0.90 PF

Starter Data	
<u>AHU-01 / Supply Fan</u>	
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	10500 CFM
Total CFM Actual	10483 CFM
OA CFM Design	3500 CFM
OA CFM Actual	3623 CFM
RA CFM Design	7000 CFM
RA CFM Actual	6860 CFM
<u>AHU-01 / Supply Fan</u>	
Fan RPM Design	900 RPM
Fan RPM Actual	868 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

Motor Data	
<u>AHU-01 / Supply Fan</u>	
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

Sheave Data	
<u>AHU-01 / Supply Fan</u>	
Number of Belts	3
Belt Size	AL220
Motor Sheave Model	4VP34
Motor Sheave Bore	0.50 in.
Fan Sheave Model	4VP60
Fan Sheave Bore	0.75 in.
Sheave Center Line	28 in.

Test Pressures	
Pre-Filter SP In	0.23 in. wc
Pre-Filter SP Out	0.27 in. wc
Cool. Coil SP In	0.19 in. wc
Cool. Coil SP Out	0.24 in. wc
Fan SP In	0.26 in. wc
Fan SP Out	0.21 in. wc
Heat. Coil SP In	0.21 in. wc
Heat. Coil SP Out	0.25 in. wc
Fin. Filter SP In	0.28 in. wc
Fin. Filter SP Out	0.22 in. wc
Design Total SP	3.78 in. wc
Actual Total SP Suction	-1.90 in. wc
Actual Total SP Discharge	2.05 in. wc
External SP	2.85 in. wc
OA Damper Pos	25 %
RA Damper Pos	75 %

NOTES:	Date	Technician	Description
AHU-01	17-Jul-06	Joe Balancer	Couldn't read info sticker
Box is wide open - still low airflow			
AHU-01 / VAV-01	17-Aug-06	Joe Balancer	Box is wide open - still low on air flow