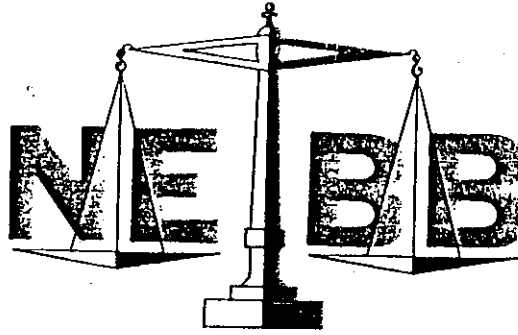




CERTIFIED TEST, ADJUST, AND BALANCE REPORT

DATE May 2001

PROJECT Richard L. Rice School

ADDRESS Evesham Township

Burlington County, New Jersey

ARCHITECT Wayne Allan Neville, AIA

West Berlin, New Jersey

ENGINEER EMC Consulting Engineers, Inc.

Cinnaminson, New Jersey

HVAC CONTRACTOR B & S Sheetmetal Mechanical

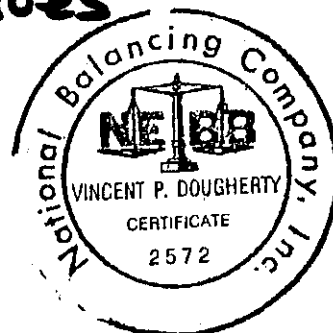
Morrisville, PA

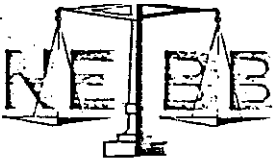
NEBB TAB FIRM National Balancing Company, Inc.

ADDRESS 408 Oak Ave.

Cherry Hill, NJ 08002

**Note: Includes updated values
for HRV-1**





PROJECT Richard L. Rice School
ADDRESS Evesham Township
Burlington County, New Jersey

THE DATA PRESENTED IN THIS REPORT IS AN EXACT RECORD OF SYSTEM PERFORMANCE AND WAS OBTAINED IN ACCORDANCE WITH NEBB STANDARD PROCEDURES. ANY VARIANCES FROM DESIGN QUANTITIES WHICH EXCEED NEBB TOLERANCES ARE NOTED THROUGHOUT THIS REPORT.

THE AIR DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS" AND THE PROJECT SPECIFICATIONS.

NEBB TAB FIRM National Balancing Company, Inc.

REG. NO. 2572 CERTIFIED BY Vincent P. Dougherty DATE Sept. 2000
(Air TAB Supervisor)

THE HYDRONIC DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS" AND THE PROJECT SPECIFICATIONS.

NEBB TAB FIRM National Balancing Company, Inc.

REG. NO. 2572 CERTIFIED BY Vincent P. Dougherty DATE Sept. 2000
(Hydronic TAB Supervisor)

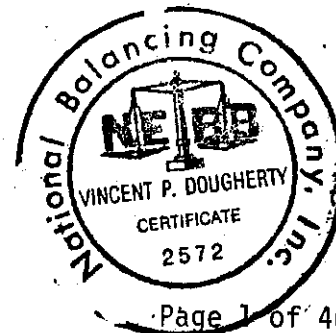
SUBMITTED & CERTIFIED BY:

NEBB TAB FIRM National Balancing Company, Inc.

TAB SUPERVISOR Vincent P. Dougherty

REG. NO. 2572 SIGNATURE Vincent P. Dougherty

DATE Sept. 2000 CERTIFICATION EXPIRATION DATE Dec. 2000



PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HRV #1</u>	FAN NO.	FAN NO. <u>HRV #2</u>			
Location	<u>ATTIC</u>		<u>ATTIC</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV 3000</u>		<u>FV 3000</u>			
Serial Number	<u>19267/32406-000</u>		<u>19267/32406-000</u>			
Type/Class	<u>HRV UNIT</u>		<u>HRV UNIT</u>			
Motor Make/Style	<u>MARATHON 1DP</u>		<u>MARATHON 1DP</u>			
Motor H.P./RPM/Frame	<u>2/1725/56 H80</u>		<u>2.0/1725/56 H80</u>			
Volts/Phase/Hertz	<u>208/3/60</u>		<u>208/3/60</u>			
F.L. Amps/S.F.	<u>6.2/1.15</u>		<u>6.2/1.15</u>			
Motor Sheave Make/Model	<u>Browning 1AK3.4</u>		<u>Browning 1VL4.4</u>			
Motor Sheave Diam./Bore	<u>AK3.4/5/8"</u>		<u>VL4.4/5/8"</u>			
Fan Sheave Make	<u>Browning</u>		<u>Browning</u>			
Fan Sheave Diam./Bore	<u>AK4.4/3/4"</u>		<u>AK3.9/3/4"</u>			
No. Belts/Make/Size	<u>1/PowerTwist/4333</u>		<u>1/PowerTwist/---</u>			
Sheave ϕ Distance	<u>17 1/4"</u>		<u>14 3/4"</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>2870</u>	<u>2867</u>			<u>2550</u>	<u>2355</u>
Fan RPM	<u>---</u>	<u>1340</u>			<u>---</u>	<u>1415</u>
S.P. In/Out	<u>---</u>	<u>1.22 1.20</u>			<u>---</u>	<u>1.15 1.14</u>
Total S.P.	<u>---</u>	<u>1.52</u>			<u>---</u>	<u>1.29</u>
Voltage T_1, T_2, T_3	<u>208</u>	<u>202/204/202</u>			<u>208</u>	<u>202/204/204</u>
Amperage T_1, T_2, T_3	<u>6.2</u>	<u>5.7/6.2/6.0</u>			<u>6.2</u>	<u>5.9/6.2/6.2</u>

REMARKS: REVISEDTEST DATE April 2001 READINGS BY VP/BB

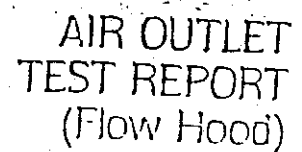


SYSTEM HRV #1 SUPPLY

TEST APPARATUS Digital Analytical

REMARKS:

TEST DATE SEP 2000 READINGS BY VMD/RG



OUTLET MANUFACTURER Titus TEST APPARATUS Flow hood

REMARKS: REVISED

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PROJECT Richard L. Rice School

FAN DATA	FAN NO. <u>HRV #2</u>	FAN NO.	FAN NO. <u>HRV #2</u>			
Location	<u>ATTIC</u>		<u>ATTIC</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV-2000</u>		<u>FV-2000</u>			
Serial Number	<u>19267/32407-000</u>		<u>19267/32407-000</u>			
Type/Class	<u>HRV-UNIT</u>		<u>HRV-UNIT</u>			
Motor Make/Style	<u>Leeson / DP</u>		<u>Leeson / DP</u>			
Motor H.P./RPM/Frame	<u>1.5/1725/F56H</u>		<u>3/4/1725/R556H</u>			
Volts/Phase/Hertz	<u>208/3/60</u>		<u>208/3/60</u>			
F.L. Amps/S.F.	<u>5.6/1.15</u>		<u>2.8/1.25</u>			
Motor Sheave Make/Model	<u>Browning AK 3.0</u>		<u>Browning / AK 2.6</u>			
Motor Sheave Diam./Bore	<u>AK 3.0 / 5/8"</u>		<u>AK 2.6 / 5/8"</u>			
Fan Sheave Make	<u>Browning</u>		<u>Browning</u>			
Fan Sheave Diam./Bore	<u>AK 3.6 / 3/4"</u>		<u>AK 3.2 / 3/4"</u>			
No. Belts/Make/Size	<u>1/Power Twist / 9333</u>		<u>1/Power Twist / 9333</u>			
Sheave & Distance	<u>13 3/4"</u>		<u>5 1/4"</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1610</u>	<u>1653</u>			<u>1400</u>	<u>1462</u>
Fan RPM	<u>---</u>	<u>1430</u>			<u>---</u>	<u>1319</u>
S.P. In/Out	<u>---</u>	<u>1.28</u>			<u>---</u>	<u>0.30</u>
Total S.P.	<u>---</u>	<u>0.98</u>			<u>---</u>	<u>0.31</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>208</u>	<u>202/204/204</u>			<u>208</u>	<u>202/204/204</u>
Amperage T_1 T_2 T_3	<u>5.6</u>	<u>3.5/3.7/3.8</u>			<u>2.8</u>	<u>2.4/2.4/2.7</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



SYSTEM HRV #2 SUPPLS

OUTLET MANUFACTURER _____ TEST APPARATUS DIGITAL ANEMOMETER

REMARKS:

ST DATE SEPT 2000 READINGS BY VMD/RG

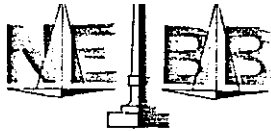


SYSTEM HRV 2 Exhaust

TEST APPARATUS Digital Analometer

REMARKS:

ST DATE SEP 2000 READINGS BY VPD/RG

PROJECT Richard L. Rice School

FAN DATA	FAN NO. <u>HRV #3</u>	FAN NO.	FAN NO. <u>HRV #3</u>			
Location	<u>ROOF</u>		<u>ROOF</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV-1000</u>		<u>FV-1000</u>			
Serial Number	<u>19267/32498-000</u>		<u>19267/32498-000</u>			
Type/Class	<u>HRV-UNIT</u>		<u>HRV-UNIT</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2/1625/---</u>		<u>3/4/1625/---</u>			
Volts/Phase/Hertz	<u>208/1/60</u>		<u>208/1/60</u>			
F.L. Amps/S.F.	<u>2.8/---</u>		<u>4.0/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>780</u>	<u>825</u>			<u>1065</u>	<u>1056</u>
Fan RPM	<u>---</u>	<u>DIRECT DRIVE</u>			<u>---</u>	<u>DIRECT DRIVE</u>
S.P. In/Out	<u>---</u>	<u>1.38</u> <u>0.08</u>			<u>---</u>	<u>0.43</u> <u>0.04</u>
Total S.P.	<u>---</u>	<u>1.30</u>			<u>---</u>	<u>0.39</u>
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>208</u>	<u>208</u>			<u>208</u>	<u>208</u>
Amperage $T_1 T_2 T_3$	<u>2.8</u>	<u>2.7</u>			<u>4.0</u>	<u>3.1</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER: _____ TEST APPARATUS DIGITAL ANCHROMETER

REMARKS: NOTE: OUTLET #1 RM HGTIC DIRECTLY INTO EXISTING HEAT PUMP.
TOTAL FOR OUTLET #1 IS ACTUAL A.M.D. (AIR FLOW MONITOR) READING LESS
the SUM OF OUTLETS #2 & #3.
$$\text{AIR FLOW MONITOR} = 825 \text{ CFM LESS } 398 \text{ CFM (OUTLETS \#1 \& \#2)} = 427 \text{ CFM}$$

REMARKS: NOTE: OUTLET #1 RM 116 TIED DIRECTLY INTO EXISTING HEAT PUMP.
TOTAL FOR OUTLET #1 IS ACTUAL A.M.D. (AIR FLOW MONITOR) READING LESS
OF SUM OF OUTLETS #2 & #3.
AIR FLOW MONITOR = 825 CFM LESS 398 CFM (OUTLETS #1 & #2) = 427

TAB 11-91
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SYSTEM HRV 3 Exhaust

TEST APPARATUS Digital Analytical

REMARKS:

ST DATE SEPT 2000 READINGS BY VMD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #36</u>	FAN NO.	FAN NO. <u>HP #36</u>			
Location	<u>CL. RM 141</u>		<u>CL. RM 142</u>			
Service	<u>CL. RM 141</u>		<u>CL. RM 142</u>			
Manufacturer	<u>McQUAY</u>		<u>McQUAY</u>			
Model Number	<u>CC4036C</u>		<u>CC4036C</u>			
Serial Number	<u>AUBA022782</u>		<u>AUBA022718</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 2SPD / ---</u>		<u>1/2 / 1075 / 2SPD / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / ---</u>		<u>3.5 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1200</u>			<u>1200</u>	<u>1190</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.38 / 0.10</u>			<u>---</u>	<u>0.28 / 0.12</u>
Total S.P.	<u>---</u>	<u>0.48</u>			<u>---</u>	<u>0.40</u>
Voltage $T_1 T_2 T_3$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>3.5</u>	<u>2.2</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

AIR OUTLET
TEST REPORT
(Flow Hood)

PROJECT RICHARD L. RICE School SYSTEM HP #36 CL. RMS #1414142
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

[illegible]

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #36</u>	FAN NO.	FAN NO. <u>HP #36</u>			
Location	<u>CL. RM 143</u>		<u>CL. RM 144</u>			
Service	<u>CL. RM 143</u>		<u>CL. RM 144</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4036C</u>		<u>CC4036C</u>			
Serial Number	<u>AUBA022724</u>		<u>AUBA022725</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 3540 / - -</u>		<u>1/2 / 1075 / 3540 / - -</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / - -</u>		<u>3.5 / - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 X 34 7/8 X 1 / TA</u>		<u>17 7/8 X 34 7/8 X 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1170</u>			<u>1200</u>	<u>1180</u>
Fan RPM	<u>- - -</u>	<u>Low SPD.</u>			<u>- - -</u>	<u>Low SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>0.28</u>			<u>- - -</u>	<u>0.30</u>
Total S.P.	<u>- - -</u>	<u>0.41</u>			<u>- - -</u>	<u>0.42</u>
Voltage $T_1 T_2 T_3$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>3.5</u>	<u>2.2</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

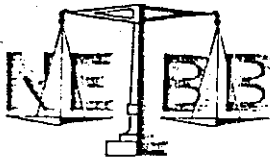
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RILE SCHOOL

FAN DATA	FAN NO. <u>HP#36</u>	FAN NO.	FAN NO. <u>HP#36</u>			
Location	<u>CL Rm 145</u>		<u>CL Rm 146</u>			
Service	<u>CL Rm 145</u>		<u>CL Rm 146</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H036C</u>		<u>CC H036C</u>			
Serial Number	<u>AUBA022721</u>		<u>AUBA022719</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 2570 / ---</u>		<u>1/2 / 1075 / 2570 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / ---</u>		<u>3.5 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1175</u>			<u>1200</u>	<u>1180</u>
Fan RPM	<u>---</u>	<u>Low SPD.</u>			<u>---</u>	<u>Low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.30 / 0.11</u>			<u>---</u>	<u>0.31 / 0.12</u>
Total S.P.	<u>---</u>	<u>0.41</u>			<u>---</u>	<u>0.43</u>
Voltage ^{T₁ T₂ T₃} _{T₃ T₁}	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T ₁ T ₂ T ₃	<u>3.5</u>	<u>2.3</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE SCHOOL SYSTEM HP #36 CLPMS 145+146
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

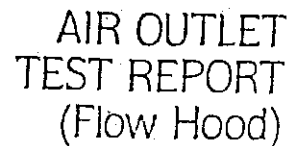
EST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #36</u>	FAN NO.	FAN NO. <u>HP #36</u>			
Location	<u>CL Rm 151</u>		<u>CL Rm 152</u>			
Service	<u>CL Rm 151</u>		<u>CL Rm 152</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H036C</u>		<u>CC H036C</u>			
Serial Number	<u>AUBA022720</u>		<u>AUBA022723</u>			
Type/Class	<u>horiz. / WSHF</u>		<u>horiz / WSHF</u>			
Motor Make/Style	<u>GE / T/P</u>		<u>GE / T/P</u>			
Motor H.P./RPM/Frame	<u>1/2 / ¹⁰⁷⁵250 / ---</u>		<u>1/2 / ¹⁰⁷⁵250 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / ---</u>		<u>3.5 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1180</u>			<u>1200</u>	<u>1160</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29 0.13</u>			<u>---</u>	<u>0.24 0.14</u>
Total S.P.	<u>---</u>	<u>0.32</u>			<u>---</u>	<u>0.38</u>
Voltage ^{T₁ T₂ T₃} _{T₃ T₁}	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T ₁ T ₂ T ₃	<u>3.5</u>	<u>2.3</u>			<u>3.5</u>	<u>2.2</u>

REMARKS:

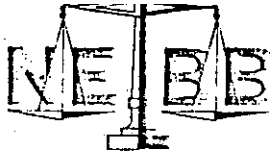
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

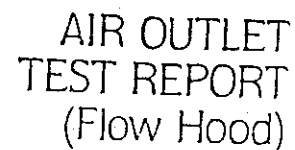
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#9</u>	FAN NO.	FAN NO. <u>HP#19</u>			
Location	<u>CL RM 147</u>		<u>CL RM 148</u>			
Service	<u>CL RM 147</u>		<u>CL RM 148</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 019C</u>		<u>CC H 019C</u>			
Serial Number	<u>AUBAO22507</u>		<u>AUBAO22511</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/570 / ---</u>		<u>1/8 / 1075/570 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 / TA</u>		<u>15x23x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>600</u>			<u>630</u>	<u>615</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.25 / 0.09</u>			<u>---</u>	<u>0.26 / 0.10</u>
Total S.P.	<u>---</u>	<u>0.34</u>			<u>---</u>	<u>0.36</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>1.0</u>			<u>0.90</u>	<u>0.95</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE School SYSTEM HP[#] 19 CL. TMS[#] 1494148
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RILE SCHOOL

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO. <u>HP#19</u>			
Location	<u>CL RM 149</u>		<u>CL RM 150</u>			
Service	<u>CL RM 149</u>		<u>CL RM 150</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 019C</u>		<u>CC H 019C</u>			
Serial Number	<u>AUBA022508</u>		<u>AUBA022509</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz. 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/570 / ---</u>		<u>1/8 / 1075/570 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 / TA</u>		<u>15x23x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>610</u>			<u>630</u>	<u>615</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>-0.24 / +0.09</u>			<u>---</u>	<u>-0.27 / +0.10</u>
Total S.P.	<u>---</u>	<u>0.33</u>			<u>---</u>	<u>0.37</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1 T_2 T_3	<u>0.90</u>	<u>0.95</u>			<u>0.90</u>	<u>0.90</u>

REMARKS: NOTE: HP#19 CL RM #150 LEFT UNIT OFF AFTER BALANCING COULD BE BAD COMPRESSOR!IS THIS UNIT NOW OPERATING PROPERLY?TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

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REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO.			
Location	<u>STORAGE 153</u>					
Service	<u>STORAGE 153</u>					
Manufacturer	<u>M^eQuay</u>					
Model Number	<u>CKH019C</u>					
Serial Number	<u>AUBA022510</u>					
Type/Class	<u>horiz./WSHP</u>					
Motor Make/Style	<u>FASCO/TP</u>					
Motor H.P./RPM/Frame	<u>1/2 / 1075/570 / ---</u>					
Volts/Phase/Hertz	<u>230 / 1 / 60</u>					
F.L. Amps/S.F.	<u>0.90 / ---</u>					
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>					
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>					
<u>FILTER</u>	<u>15x23x1 / TA</u>					
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>610</u>				
Fan RPM	<u>---</u>	<u>High SPD.</u>				
S.P. In/Out	<u>---</u>	<u>0.31 / 0.24</u>				
Total S.P.	<u>---</u>	<u>0.55</u>				
Voltage $T_1 T_2 T_3 T_1$	<u>230</u>	<u>230</u>				
Amperage $T_1 T_2 T_3$	<u>0.90</u>	<u>1.0</u>				

REMARKS:

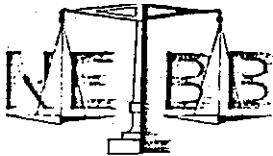
TEST DATE Sept 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #19</u>	FAN NO.	FAN NO. <u>HP #19</u>			
Location	<u>Rm 115 KINDERGARDEN</u>		<u>Rm 115 KINDERGARDEN</u>			
Service	<u>Rm 115 KINDERGARDEN</u>		<u>Rm 115 KINDERGARDEN</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H019C</u>		<u>CC H019C</u>			
Serial Number	<u>AUBA019943</u>		<u>AUBA019944</u>			
Type/Class	<u>HORIZ. /WSHP</u>		<u>HORIZ /WSHP</u>			
Motor Make/Style	<u>FASCO /TP</u>		<u>FASCO /TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/570</u> <u>2 SPD / ---</u>		<u>1/8 / 1075/570</u> <u>2 SPD / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>665</u>			<u>630</u>	<u>665</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.22</u> <u>6.08</u>			<u>---</u>	<u>0.22</u> <u>6.08</u>
Total S.P.	<u>---</u>	<u>0.30</u>			<u>---</u>	<u>0.31</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

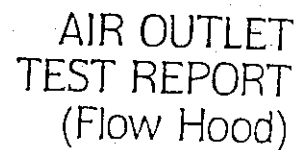
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #15</u>	FAN NO.	FAN NO. <u>HP #15</u>			
Location	<u>CL. RM. 157</u>		<u>CL. RM. 158</u>			
Service	<u>CL. RM. 157</u>		<u>CL. RM. 158</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H015C</u>		<u>CC H015C</u>			
Serial Number	<u>AUBA022497</u>		<u>AUBA022493</u>			
Type/Class	<u>horiz. /WSHP</u>		<u>horiz. /WSHP</u>			
Motor Make/Style	<u>FASCO /TP</u>		<u>FASCO /TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/970 /---</u>		<u>1/8 / 1075/970 /---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15X23X1 /TA</u>		<u>15X23X1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>460</u>			<u>500</u>	<u>450</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.25 / 0.06</u>			<u>---</u>	<u>0.25 / 0.06</u>
Total S.P.	<u>---</u>	<u>0.31</u>			<u>---</u>	<u>0.29</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.80</u>			<u>0.90</u>	<u>0.80</u>

REMARKS:

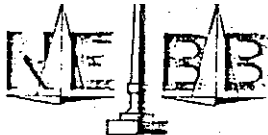
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#15</u>	FAN NO.	FAN NO. <u>HP#15</u>			
Location	<u>CL. RM. 146</u>		<u>CL. RM. 142</u>			
Service	<u>ATTIC</u>		<u>ATTIC</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4015C</u>		<u>CC4015C</u>			
Serial Number	<u>AUBAD22489</u>		<u>AUBAD22492</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/ITP</u>		<u>FASCO/ITP</u>			
Motor H.P./RPM/Frame	<u>1/8 1075/1970</u>		<u>1/8 1075/1970</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90/---</u>		<u>0.90/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1/TA</u>		<u>15x23x1/TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>516</u>			<u>500</u>	<u>525</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.18</u>			<u>---</u>	<u>0.20</u>
Total S.P.	<u>---</u>	<u>0.20</u>			<u>---</u>	<u>0.22</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



SYSTEM HP# 15 CL RN 1464142 ATTIC

TEST APPARATUS Digital Avometer

REMARKS:

EST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #15</u>	FAN NO.	FAN NO. <u>HP #15</u>			
Location	<u>CONR B3 RM 110</u>		<u>ELEC. RM 181</u>			
Service	<u>COLLIDOR</u>		<u>COLLIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H015C</u>		<u>CC H015C</u>			
Serial Number	<u>AUBA022490</u>		<u>AUBA022491</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075/570 / ---</u>		<u>1/2 / 1075/570 / ---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>490</u>			<u>500</u>	<u>515</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.22 / 0.12</u>			<u>---</u>	<u>0.20 / 0.13</u>
Total S.P.	<u>---</u>	<u>0.32</u>			<u>---</u>	<u>0.33</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VJD/RG



PROJECT RICHARD L. RICE School SYSTEM HP[#] 15 Coll. BS RWS 1104180
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

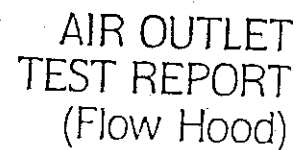
TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #2</u>	FAN NO.	FAN NO. <u>HP #12</u>			
Location	<u>CORR B5 CR 138</u>		<u>CORR B5 CR 135</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4012C</u>		<u>CC4012C</u>			
Serial Number	<u>AUBA022457</u>		<u>AUBA022457</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>FASCO 1TP</u>		<u>FASCO 1TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400/1550 / --</u>		<u>1/8 / 1400/1550 / --</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / 1TA</u>		<u>10x24x1 / 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>400</u>	<u>395</u>			<u>400</u>	<u>390</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.36 / 0.16</u>			<u>---</u>	<u>0.38 / 0.15</u>
Total S.P.	<u>---</u>	<u>0.52</u>			<u>---</u>	<u>0.53</u>
Voltage $T_1 T_2 T_3$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.83</u>	<u>0.80</u>			<u>0.83</u>	<u>0.80</u>

REMARKS:

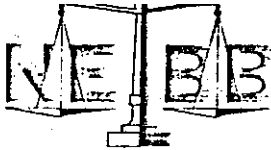
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #9</u>	FAN NO.	FAN NO. <u>HP #9</u>			
Location	<u>Coll 303 Bx Rm 150</u>		<u>Coll 303 Bx Rm 146</u>			
Service	<u>Coll 303</u>		<u>Coll 303</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4009C</u>		<u>CC4009C</u>			
Serial Number	<u>AUBAD35142</u>		<u>AUBAD28999</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/1TP</u>		<u>FASCO/1TP</u>			
Motor H.P./RPM/Frame	<u>1/8 1400/1550</u>		<u>1/8 1400/1550</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.83/---</u>		<u>0.83/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1/1TA</u>		<u>10x24x1/1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>300</u>	<u>310</u>			<u>300</u>	<u>300</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.28</u> <u>10.18</u>			<u>---</u>	<u>0.27</u> <u>10.17</u>
Total S.P.	<u>---</u>	<u>0.46</u>			<u>---</u>	<u>0.44</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.83</u>	<u>0.60</u>			<u>0.83</u>	<u>1.60</u>

REMARKS:

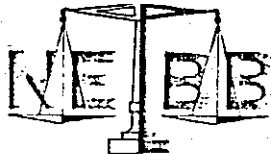
TEST DATE SEPT 2000 READINGS BY VJD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

PAGE 36 OF 46

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #9</u>	FAN NO.	FAN NO. <u>HP #9</u>			
Location	<u>Coll 303 BTRM 141</u>		<u>Coll. 301</u>			
Service	<u>Coll-303</u>		<u>Coll 301</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H009C</u>		<u>CC H009C</u>			
Serial Number	<u>AUBAD</u>		<u>AUBAD35141</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO 1TA</u>		<u>FASCO 1TA</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400/1550</u>		<u>1/8 / 1400/1550</u>			
Volts/Phase/Hertz	<u>230 1/60</u>		<u>230 1/60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave ϕ Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 1TA</u>		<u>10x24x1 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>300</u>	<u>300</u>			<u>300</u>	<u>320</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29 / 0.15</u>			<u>---</u>	<u>0.22 / 0.14</u>
Total S.P.	<u>---</u>	<u>0.44</u>			<u>---</u>	<u>0.36</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.83</u>	<u>0.60</u>			<u>0.83</u>	<u>0.60</u>

REMARKS:

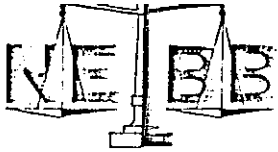
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

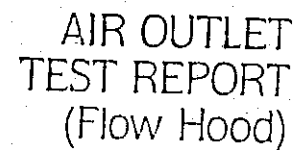
National Environmental Balancing Bureau
Report Not Valid Unless Stamped with
NEBB Certification Seal

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP# 07</u>	FAN NO.	FAN NO. <u>HP# 07</u>			
Location	<u>Corr Bx CRM 160</u>		<u>Corr Bx Cr. Rm 162</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4007C</u>		<u>CC4007C</u>			
Serial Number	<u>AUBAD22383</u>		<u>AUBAD22402</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / ¹⁵⁵⁰ 2500 / ---</u>		<u>1/20 / ¹⁵⁵⁰ 2500 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 /TA</u>		<u>10x24x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>240</u>			<u>230</u>	<u>250</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29 / 0.07</u>			<u>---</u>	<u>0.30 / 0.08</u>
Total S.P.	<u>---</u>	<u>0.36</u>			<u>---</u>	<u>0.38</u>
Voltage ^{T₁T₂T₃} _{T₃T₁}	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T ₁ T ₂ T ₃	<u>0.46</u>	<u>0.40</u>			<u>0.46</u>	<u>0.45</u>

REMARKS:

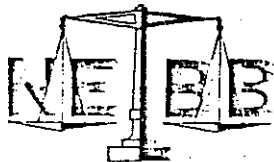
TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE SCHOOL SYSTEM HP 07 CORR BY RMS 1604162
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



FAN TEST REPORT

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP # 07</u>	FAN NO.	FAN NO. <u>HP # 07</u>			
Location	<u>Coll Bx Rm 166</u>		<u>Coll Bx Rm 129</u>			
Service	<u>Corridor</u>		<u>Corridor</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H007C</u>		<u>CC H007C</u>			
Serial Number	<u>AUBAD22372</u>		<u>AUBAD22376</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / 2SPD / ---</u>		<u>1/20 / 1550 / 2SPD / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / TA</u>		<u>10x24x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>225</u>			<u>230</u>	<u>250</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.28 / 0.09</u>			<u>---</u>	<u>0.34 / 0.08</u>
Total S.P.	<u>---</u>	<u>0.37</u>			<u>---</u>	<u>0.42</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.45</u>			<u>0.46</u>	<u>0.40</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. KICE SCHOOL SYSTEM HP 07 CAR BY 2AS 1664129
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

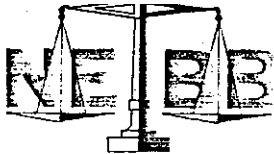
TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #07</u>	FAN NO.	FAN NO. <u>HP #07</u>			
Location	<u>Coll Bx Rm 123</u>		<u>Coll. Bx Rm 121</u>			
Service	<u>Collision</u>		<u>Collision</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H007C</u>		<u>CC H007C</u>			
Serial Number	<u>AUBRO22371</u>		<u>AUBRO22373</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>Fasco 17P</u>		<u>Fasco 17P</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / ---</u>		<u>1/20 / 1550 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / TA</u>		<u>10x24x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>235</u>			<u>230</u>	<u>235</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.36 / 0.08</u>			<u>---</u>	<u>0.34 / 0.07</u>
Total S.P.	<u>---</u>	<u>0.44</u>			<u>---</u>	<u>0.41</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.40</u>			<u>0.46</u>	<u>0.40</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VJD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#07</u>	FAN NO.	FAN NO.			
Location	<u>CORRIDOR 300</u>					
Service	<u>CORRIDOR 300</u>					
Manufacturer	<u>M^cQuay</u>					
Model Number	<u>CLH007L</u>					
Serial Number	<u>AUBA022370</u>					
Type/Class	<u>HORIZ./WSHP</u>					
Motor Make/Style	<u>FASCO/TP</u>					
Motor H.P./RPM/Frame	<u>1/20/1550</u>					
Volts/Phase/Hertz	<u>230/1/60</u>					
F.L. Amps/S.F.	<u>0.46/---</u>					
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>					
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave ϕ Distance	<u>DIRECT DRIVE</u>					
<u>FILTER</u>	<u>10x24x1/TA</u>					
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>215</u>				
Fan RPM	<u>---</u>	<u>LOW SPD.</u>				
S.P. In/Out	<u>---</u>	<u>0.20</u>				
Total S.P.	<u>---</u>	<u>70.06</u>				
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>230</u>	<u>230</u>				
Amperage $T_1 T_2 T_3$	<u>0.46</u>	<u>0.35</u>				

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/26



CERT. NO. 2572

NATIONAL BALANCING COMPANY, INC.

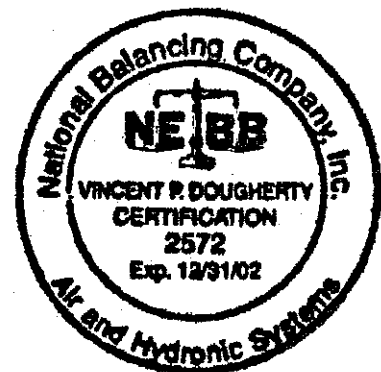
408 OAK AVENUE
CHERRY HILL, NJ 08002

(856) 667-5100 FAX (856) 667-1099

RICHARD L. RICE SCHOOL

EVESHAM TOWNSHIP

HYDRONICS





PUMP TEST REPORT

PROJECT Richard L. Rice School

	DATA	PUMP NO. <u>Hwf-1</u>	PUMP NO.	PUMP NO. <u>Hwf-2</u>	PUMP NO.	PUMP NO.
DESIGN	Location	<u>mech. Rm.</u>		<u>mech. Rm.</u>		
	Service	<u>HOT WATER</u>		<u>HOT WATER</u>		
	Manufacturer	<u>Bell & Gossett</u>		<u>Bell & Gossett</u>		
	Model Number	<u>2.5 BB8.125 BF</u>		<u>2.5 BB8.125 BF</u>		
	Serial Number	<u>2195171</u>		<u>2195170</u>		
	GPM/Head	<u>223/60</u>		<u>223/60</u>		
	Req. NPSH	<u>---</u>		<u>---</u>		
	Pump RPM	<u>1800</u>		<u>1800</u>		
	Impeller Diam.	<u>8.125</u>		<u>8.125</u>		
	Motor Mfr./Frame	<u>US Electric/184T</u>		<u>US Electric/184T</u>		
	Motor HP/RPM	<u>5/1755</u>		<u>5/1755</u>		
	Volts/Phase/Hertz	<u>200/3/60</u>		<u>200/3/60</u>		
	F.L. Amps/S.F.	<u>14.5/1.15</u>		<u>14.5/1.15</u>		
	Seal Type	<u>STANDARD</u>		<u>STANDARD</u>		
ACTUAL	Pump Off-Press.	<u>0</u>		<u>0</u>		
	Valve Shut Diff.	<u>28.6 PSI/66'</u>		<u>28.6 PSI/66'</u>		
	Act. Impeller Diam.	<u>8.125"</u>		<u>8.125"</u>		
	Valve Open Diff.	<u>16 PSI/37'</u>		<u>16 PSI/37'</u>		
	Valve Open GPM	<u>350</u>		<u>350</u>		
	Final Dischg. Press.	<u>46.0 PSI</u>		<u>46.0 PSI</u>		
	Final Suction Press.	<u>20.0 PSI</u>		<u>20.0 PSI</u>		
	Final Δ P	<u>26.0 PSI</u>		<u>26.0 PSI</u>		
	Final GPM	<u>225</u>		<u>225</u>		
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>205/207/208</u>		<u>206/207/208</u>		
	Amperage T_1 T_2 T_3	<u>12.8/13.0/14.2</u>		<u>13.4/13.5/14.5</u>		

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD

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TEST DATE Nov 2000 READINGS BY VPD



PUMP TEST REPORT

PROJECT Richard L. Rice School

	DATA	EXISTING PUMP NO. <u>LWP-3</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>mech. Rm.</u>				
	Service	<u>Loop Water</u>				
	Manufacturer	<u>TACO</u>				
	Model Number	<u>FM 3010/9.75</u>				
	Serial Number MODEL C2071	<u>B5H1C140</u>				
	GPM/Head	<u>517/---</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1750</u>				
	Impeller Diam.	<u>9.75</u>				
	Motor Mfr./Frame	<u>V/S Electric PS47</u>				
	Motor HP/RPM	<u>15/1745</u>				
	Volts/Phase/Hertz	<u>208/3/60</u>				
	F.L. Amps/S.F.	<u>43.3/1.0</u>				
	Seal Type	<u>---</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>42 PSI/97'</u>				
	Act. Impeller Diam.	<u>9.75"</u>				
	Valve Open Diff.	<u>31 PSI/72'</u>				
	Valve Open GPM	<u>APPROX 560</u>				
	Final Dischg. Press.	<u>40.0 PSI</u>				
	Final Suction Press.	<u>7.0 PSI</u>				
	Final ΔP	<u>33.0 PSI</u>				
	Final GPM	<u>520</u>				
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>207/207/208</u>				
	Amperage T_1 T_2 T_3	<u>39.4/35.8/36.4</u>				

REMARKS:

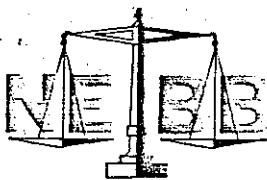
TEST DATE Nov 7 2000 READINGS BY VPD



LOCATION Evesham Township

REMARKS:

8.27



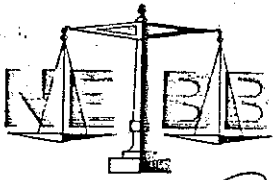
PUMP TEST REPORT

PROJECT Richard L. Rice School

	DATA	PUMP NO. <u>P-4</u>	PUMP NO.	PUMP NO.	PUMP NO. <u>P-4</u>	PUMP NO.
DESIGN	Location	<u>Mech. Rm.</u>			<u>Mech Rm</u>	
	Service	<u>Common To P-3</u>			<u>Common To P-5</u>	
	Manufacturer	<u>Bell & Gossett</u>			<u>Bell & Gossett</u>	
	Model Number	<u>4BC7.625BF</u>			<u>4BC7.625BF</u>	
	Serial Number	<u>2194990</u>			<u>2194990</u>	
	GPM/Head	<u>517/-</u>			<u>640/40</u>	
	Req. NPSH	<u>- - - -</u>			<u>- - - -</u>	
	Pump RPM	<u>1800</u>			<u>1800</u>	
	Impeller Diam.	<u>7.625</u>			<u>7.625</u>	
	Motor Mfr./Frame	<u>Baldor/254T</u>			<u>Baldor/254T</u>	
	Motor HP/RPM	<u>15/1760</u>			<u>15/1760</u>	
	Volts/Phase/Hertz	<u>200/3/60</u>			<u>200/3/60</u>	
	F.L. Amps/S.F.	<u>44.8/1.15</u>			<u>44.8/1.15</u>	
	Seal Type	<u>STANDARD</u>			<u>STANDARD</u>	
ACTUAL	Pump Off-Press.	<u>0</u>			<u>0</u>	
	Valve Shut Diff.	<u>- - - -</u>			<u>- - - -</u>	
	Act. Impeller Diam.	<u>- - - -</u>			<u>- - - -</u>	
	Valve Open Diff.	<u>- - - -</u>			<u>- - - -</u>	
	Valve Open GPM	<u>- - - -</u>			<u>- - - -</u>	
	Final Dischg. Press.	<u>- - - -</u>			<u>- - - -</u>	
	Final Suction Press.	<u>- - - -</u>			<u>- - - -</u>	
	Final ΔP	<u>- - - -</u>			<u>- - - -</u>	
	Final GPM	<u>520</u>			<u>640</u>	
	Voltage $T_1-T_2-T_3$ T_3-T_1	<u>207/208/208</u>			<u>208/207/208</u>	
	Amperage $T_1 T_2 T_3$	<u>37.5/36.8/32.6</u>			<u>42.6/43.1/42.4</u>	

REMARKS:

TEST DATE Nov 2008 READINGS BY IND



PUMP TEST REPORT

PROJECT RICHARD L. RICE School

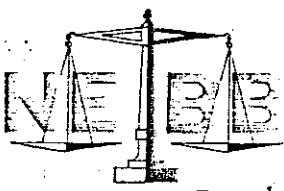
DATA		PUMP NO. <u>W-5</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>MECH. RM</u>				
	Service	<u>CONDENSER WATER</u>				
	Manufacturer	<u>BELL & GOSSETT</u>				
	Model Number	<u>4BC7.6258F</u>				
	Serial Number	<u>2194989</u>				
	GPM/Head	<u>640/40</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1800</u>				
	Impeller Diam.	<u>7.625</u>				
	Motor Mfr./Frame	<u>UBELCCM1021ST</u>				
	Motor HP/RPM	<u>10/1760</u>				
	Volts/Phase/Hertz	<u>200/3/60</u>				
	F.L. Amps/S.F.	<u>28.4/1.15</u>				
	Seal Type	<u>STANDARD</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>25 PSI/58'</u>				
	Act. Impeller Diam.	<u>7.625"</u>				
	Valve Open Diff.	<u>18.2 PSI</u>				
	Valve Open GPM	<u>---</u>				
	Final Dischg. Press.	<u>18.2 PSI</u>				
	Final Suction Press.	<u>.7 PSI</u>				
	Final ΔP	<u>17.5 PSI</u>				
	Final GPM	<u>640</u>				
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>206/207/208</u>				
	Amperage T_1 T_2 T_3	<u>23.9/23.4/25.2</u>				

REMARKS:

TEST DATE Nov 2000 READINGS BY VPO

[illegible]

TEST DATE Nov 2000 READINGS BY VTD



BALANCE VALVE/FLOW METER TEST REPORT

PROJECT Richard L. Rice School SYSTEM/UNIT HEAT PUMP HOOD WATER
LOCATION Evesham Township

SERVICE OR DESIGNATION	SIZE	MODEL	DESIGN GPM (l/s)	ACTUAL VALVE SETPOINT (DEGREE)	ACTUAL VALVE P.D.	ACTUAL GPM (l/s)	NOTES
CR 141	3/4	Griswold	7.5	AUTO BALANCING	6.0	7.5	HP-36
CR 152					5.0	7.5	
CR 142					5.0	7.5	
CR 151					5.0	7.5	
CR 143					6.0	7.5	
CR 144					5.0	7.5	
CR 145					5.0	7.5	
CR 146	3/4		7.5		4.0	7.5	HP-36
CR 147	1/2		3.8		4.0	3.8	HP-19
CR 148					4.0	3.8	
CR 149					4.0	3.8	
CR 150					5.0	3.8	
Kiw. 115					5.0	3.8	
Kiw. 115					6.0	3.8	
STORAGE 153			3.8		5.0	3.8	HP-19
Rm 157			2.7		4.0	2.7	HP-15
Rm 158					4.0	2.7	
ATTIC					4.0	2.7	
ATTIC					4.0	2.7	
ELCC. 181					5.0	2.7	
CORR (BY RM) 110			2.7		5.0	2.7	HP-15
CORR (BY RM) 138			2.6		4.0	2.6	HP-12
CORR (BY RM) 135	1/2	Griswold	2.6	AUTO BALANCING	5.0	2.6	HP-12

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



SYSTEM/UNIT HEAT PUMP HOT WATER

[illegible]

TEST DATE Nov 2000 READINGS BY VPJ



CERT. No. 2572

NATIONAL BALANCING COMPANY, INC.

408 OAK AVENUE
CHERRY HILL, NJ 08002

(856) 667-5100 FAX (856) 667-1099

RICHARD L. RICE SCHOOL

EVESHAM TOWNSHIP

HYDRONICS



PUMP TEST REPORT

PROJECT Richard L. Rice School

	DATA	PUMP NO. <u>Half-1</u>	PUMP NO.	PUMP NO. <u>Half-2</u>	PUMP NO.	PUMP NO.
DESIGN	Location	<u>Mech. Rm.</u>		<u>Mech. Rm.</u>		
	Service	<u>HOT WATER</u>		<u>HOT WATER</u>		
	Manufacturer	<u>Bell & Gossett</u>		<u>Bell & Gossett</u>		
	Model Number	<u>2.5 BB8.125BF</u>		<u>2.5 BB8.125BF</u>		
	Serial Number	<u>2195171</u>		<u>2195170</u>		
	GPM/Head	<u>223/60</u>		<u>223/60</u>		
	Req. NPSH	<u>---</u>		<u>---</u>		
	Pump RPM	<u>1800</u>		<u>1800</u>		
	Impeller Diam.	<u>8.125</u>		<u>8.125</u>		
	Motor Mfr./Frame	<u>US Electric/184T</u>		<u>US Electric/184T</u>		
	Motor HP/RPM	<u>5/1755</u>		<u>5/1755</u>		
	Volts/Phase/Hertz	<u>200/3/60</u>		<u>200/3/60</u>		
	F.L. Amps/S.F.	<u>14.5/1.15</u>		<u>14.5/1.15</u>		
	Seal Type	<u>STANDARD</u>		<u>STANDARD</u>		
ACTUAL	Pump Off-Press.	<u>0</u>		<u>0</u>		
	Valve Shut Diff.	<u>28.6 PSI/66'</u>		<u>28.6 PSI/66'</u>		
	Act. Impeller Diam.	<u>8.125"</u>		<u>8.125"</u>		
	Valve Open Diff.	<u>16 PSI/37'</u>		<u>16 PSI/37'</u>		
	Valve Open GPM	<u>350</u>		<u>350</u>		
	Final Dischg. Press.	<u>46.0 PSI</u>		<u>46.0 PSI</u>		
	Final Suction Press.	<u>20.0 PSI</u>		<u>20.0 PSI</u>		
	Final Δ P	<u>26.0 PSI</u>		<u>26.0 PSI</u>		
	Final GPM	<u>225</u>		<u>225</u>		
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>205/207/208</u>		<u>206/207/208</u>		
	Amperage T_1 T_2 T_3	<u>12.8/13.0/14.2</u>		<u>13.4/13.5/14.5</u>		

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



SYSTEM/UNIT Hot water

[illegible]

REMARKS: 1) When TRIPLE DOTS VALVE IS CLOSED TO 100%, IN ORDER TO OBTAIN 825 GPM AS PER PUMP CURVE, THE DELTA "P" ACROSS THE TRIPLE DOTS IS 56.0', THERE IS NO PUBLISHED DATA BY BELL & GOSSETT ON THESE TYPE OF VALVES OVER 25.0'

2) TRIPLE DOTS OPEN 20% DELTA "P" = 25.0' = 290 GPM.

READINGS BY VPD



PUMP TEST REPORT

PROJECT Richard L. Rice School

DATA		EXISTING PUMP NO. <u>LWP-3</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>mech. Rm.</u>				
	Service	<u>Loop Water</u>				
	Manufacturer	<u>TACO</u>				
	Model Number	<u>FM 3010/9.75</u>				
	Serial Number MODEL COUNT:	<u>B5H1C140</u>				
	GPM/Head	<u>512/---</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1750</u>				
	Impeller Diam.	<u>9.75</u>				
	Motor Mfr./Frame	<u>1/2 ELECTRIC PSVT</u>				
	Motor HP/RPM	<u>15/1745</u>				
	Volts/Phase/Hertz	<u>208/3/60</u>				
	F.L. Amps/S.F.	<u>43.3/1.0</u>				
	Seal Type	<u>---</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>42 PSI / 97'</u>				
	Act. Impeller Diam.	<u>9.75"</u>				
	Valve Open Diff.	<u>31 PSI / 72'</u>				
	Valve Open GPM	<u>APPROX 560</u>				
	Final Dischg. Press.	<u>40.0 PSI</u>				
	Final Suction Press.	<u>7.0 PSI</u>				
	Final ΔP	<u>33.0 PSI</u>				
	Final GPM	<u>520</u>				
	Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>207/207/208</u>				
	Amperage $T_1 T_2 T_3$	<u>39.4/35.8/36.4</u>				

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



PROJECT RICHARD L. KICE School

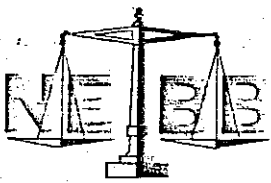
SYSTEM/UNIT ROOF WATER

LOCATION Freshman Township

REMARKS:

TEST DATE Nov 2000

READINGS BY VPD



PUMP TEST REPORT

PROJECT Richard L. Rice School

	DATA	PUMP NO. <u>P-4</u>	PUMP NO.	PUMP NO.	PUMP NO. <u>P-4</u>	PUMP NO.
DESIGN	Location	<u>Mech. Rm.</u>			<u>Mech Rm</u>	
	Service	<u>Common To P-3</u>			<u>Common To P-5</u>	
	Manufacturer	<u>Bell & Gossett</u>			<u>Bell & Gossett</u>	
	Model Number	<u>4BC7.625BF</u>			<u>4BC7.625BF</u>	
	Serial Number	<u>2194990</u>			<u>2194990</u>	
	GPM/Head	<u>517/-</u>			<u>640/40</u>	
	Req. NPSH	<u>- - - -</u>			<u>- - - -</u>	
	Pump RPM	<u>1800</u>			<u>1800</u>	
	Impeller Diam.	<u>7.625</u>			<u>7.625</u>	
	Motor Mfr./Frame	<u>Baldor/254T</u>			<u>Baldor/254T</u>	
	Motor HP/RPM	<u>15/1760</u>			<u>15/1760</u>	
	Volts/Phase/Hertz	<u>200/3/60</u>			<u>200/3/60</u>	
	F.L. Amps/S.F.	<u>44.8/1.15</u>			<u>44.8/1.15</u>	
	Seal Type	<u>STANDARD</u>			<u>STANDARD</u>	
ACTUAL	Pump Off-Press.	<u>0</u>			<u>0</u>	
	Valve Shut Diff.	<u>- - - -</u>			<u>- - - -</u>	
	Act. Impeller Diam.	<u>- - - -</u>			<u>- - - -</u>	
	Valve Open Diff.	<u>- - - -</u>			<u>- - - -</u>	
	Valve Open GPM	<u>- - - -</u>			<u>- - - -</u>	
	Final Dischg. Press.	<u>- - - -</u>			<u>- - - -</u>	
	Final Suction Press.	<u>- - - -</u>			<u>- - - -</u>	
	Final ΔP	<u>- - - -</u>			<u>- - - -</u>	
	Final GPM	<u>520</u>			<u>640</u>	
	Voltage $T_1 T_2 T_3$	<u>207/208/208</u>			<u>208/207/208</u>	
	Amperage $T_1 T_2 T_3$	<u>37.5/36.8/37.6</u>			<u>42.6/43.1/42.4</u>	

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



PUMP TEST REPORT

PROJECT

Richard L. Rice School

DATA		PUMP NO. <u>1WP-5</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>MECH. RM</u>				
	Service	<u>CONDENSER WATER</u>				
	Manufacturer	<u>BELL & GOSSETT</u>				
	Model Number	<u>4BC7.625BF</u>				
	Serial Number	<u>2194989</u>				
	GPM/Head	<u>640/40</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1800</u>				
	Impeller Diam.	<u>7.625</u>				
	Motor Mfr./Frame	<u>VBECCM161ST</u>				
	Motor HP/RPM	<u>10/1760</u>				
	Volts/Phase/Hertz	<u>200/3/60</u>				
	F.L. Amps/S.F.	<u>28.4/1.15</u>				
	Seal Type	<u>STANDARD</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>25 PSI/58'</u>				
	Act. Impeller Diam.	<u>7.625"</u>				
	Valve Open Diff.	<u>18.2 PSI</u>				
	Valve Open GPM	<u>---</u>				
	Final Dischg. Press.	<u>18.2 PSI</u>				
	Final Suction Press.	<u>.7 PSI</u>				
	Final ΔP	<u>17.5 PSI</u>				
	Final GPM	<u>640</u>				
	Voltage $\frac{T_1-T_2}{T_3-T_1}$	<u>206/207/208</u>				
	Amperage $T_1 T_2 T_3$	<u>23.9/23.1/25.2</u>				

REMARKS:

TEST DATE

Nov 2000

READINGS BY

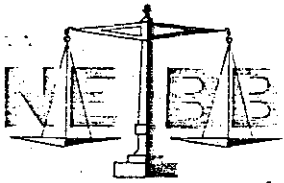
VPD



LOCATION Lucerne Township

REMARKS:

8.27



BALANCE VALVE/FLOW METER TEST REPORT

PROJECT RICHARD L. RICE School SYSTEM/UNIT HEAT PUMP Loop WATER
LOCATION Evesham Township

SERVICE OR DESIGNATION	SIZE	MODEL	DESIGN GPM (l/s)	ACTUAL VALVE SETPOINT (DEGREE)	ACTUAL VALVE P.D.	ACTUAL GPM (l/s)	NOTES
CR 141	3/4	GRISWOLD	7.5	AUTO BALANCING	6.0	7.5	HP-36
CR 152					5.0	7.5	
CR 142					5.0	7.5	
CR 151					5.0	7.5	
CR 143					6.0	7.5	
CR 144					5.0	7.5	
CR 145					5.0	7.5	
CR 146	3/4		7.5		4.0	7.5	HP-36
CR 147	1/2		3.8		4.0	3.8	HP-19
CR 148					4.0	3.8	
CR 149					4.0	3.8	
CR 150					5.0	3.8	
KIN. 115					5.0	3.8	
KIN. 115					6.0	3.8	
STORAGE 153			3.8		5.0	3.8	HP-19
Rm 157			2.7		4.0	2.7	HP-15
Rm 158					4.0	2.7	
ATTIC					4.0	2.7	
ATTIC					4.0	2.7	
ELEC. 181					5.0	2.7	
CORR (BY RM) 110			2.7		5.0	2.7	HP-15
CORR (BY RM) 138			2.6		4.0	2.6	HP-12
CORR (BY RM) 135	1/2	GRISWOLD	2.6	AUTO BALANCING	5.0	2.6	HP-12

REMARKS:

TEST DATE NOV 2000 READINGS BY VPD

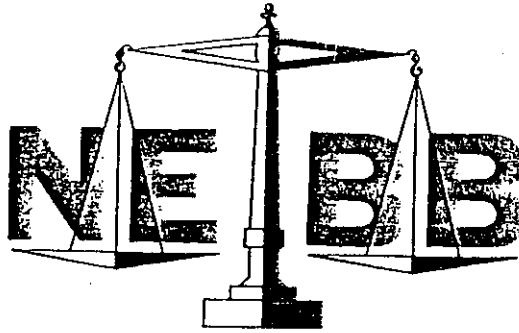


SYSTEM/UNIT HEAT PUMP/POOL WATER

[illegible]

REMARKS:

TEST DATE Nov 2000 READINGS BY VP



CERTIFIED TEST, ADJUST, AND BALANCE REPORT

DATE May 2001

PROJECT Richard L. Rice School

ADDRESS Evesham Township

Burlington County, New Jersey

ARCHITECT Wayne Allan Neville, AIA

West Berlin, New Jersey

ENGINEER EMC Consulting Engineers, Inc.

Cinnaminson, New Jersey

HVAC CONTRACTOR B & S Sheetmetal Mechanical

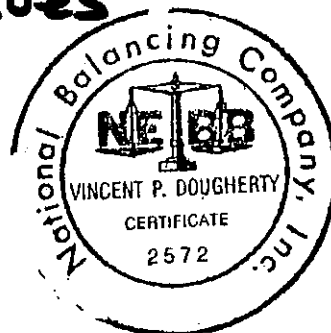
Morrisville, PA

NEBB TAB FIRM National Balancing Company, Inc.

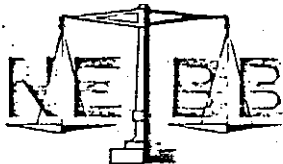
ADDRESS 408 Oak Ave.

Cherry Hill, NJ 08002

**Note: Includes updated values
for HRV-1**



National Environmental Balancing Bureau



CERTIFICATION

PROJECT Richard L. Rice School
ADDRESS Evesham Township
Burlington County, New Jersey

THE DATA PRESENTED IN THIS REPORT IS AN EXACT RECORD OF SYSTEM PERFORMANCE AND WAS OBTAINED IN ACCORDANCE WITH NEBB STANDARD PROCEDURES. ANY VARIANCES FROM DESIGN QUANTITIES WHICH EXCEED NEBB TOLERANCES ARE NOTED THROUGHOUT THIS REPORT.

THE AIR DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS" AND THE PROJECT SPECIFICATIONS.

NEBB TAB FIRM National Balancing Company, Inc.

REG. NO. 2572 CERTIFIED BY Vincent P. Dougherty DATE Sept. 2000
(Air TAB Supervisor)

THE HYDRONIC DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS" AND THE PROJECT SPECIFICATIONS.

NEBB TAB FIRM National Balancing Company, Inc.

REG. NO. 2572 CERTIFIED BY Vincent P. Dougherty DATE Sept. 2000
(Hydronic TAB Supervisor)

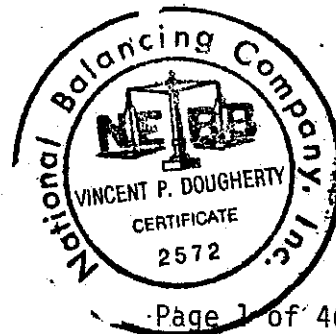
SUBMITTED & CERTIFIED BY:

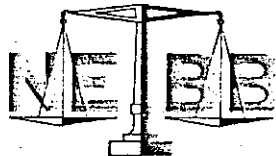
NEBB TAB FIRM National Balancing Company, Inc.

TAB SUPERVISOR Vincent P. Dougherty

REG. NO. 2572 SIGNATURE Vincent P. Dougherty

DATE Sept. 2000 CERTIFICATION EXPIRATION DATE Dec. 2000



PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HRV #1</u>	FAN NO.	FAN NO. <u>HRV #2</u>			
Location	<u>ATTIC</u>		<u>ATTIC</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV 3000</u>		<u>FV 3000</u>			
Serial Number	<u>19267/32406-000</u>		<u>19267/32406-000</u>			
Type/Class	<u>HRV UNIT</u>		<u>HRV UNIT</u>			
Motor Make/Style	<u>MARATHON / DP</u>		<u>MARATHON / DP</u>			
Motor H.P./RPM/Frame	<u>2.0/1725/56 H80</u>		<u>2.0/1725/56 H80</u>			
Volts/Phase/Hertz	<u>208/3/60</u>		<u>208/3/60</u>			
F.L. Amps/S.F.	<u>6.2/1.15</u>		<u>6.2/1.15</u>			
Motor Sheave Make/Model	<u>BROWNING / AK3.4</u>		<u>BROWNING / 1VL4.4</u>			
Motor Sheave Diam./Bore	<u>AK3.4 / 5/8"</u>		<u>1VL4.4 / 5/8"</u>			
Fan Sheave Make	<u>BROWNING</u>		<u>BROWNING</u>			
Fan Sheave Diam./Bore	<u>AK4.4 / 3/4"</u>		<u>AK3.9 / 3/4"</u>			
No. Belts/Make/Size	<u>1/POWERWIST/9333</u>		<u>1/POWERWIST/---</u>			
Sheave ϕ Distance	<u>17 1/4"</u>		<u>14 3/4"</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>2870</u>	<u>2867</u>			<u>2550</u>	<u>2355</u>
Fan RPM	<u>---</u>	<u>1340</u>			<u>---</u>	<u>1415</u>
S.P. In/Out	<u>---</u>	<u>1.72 0.20</u>			<u>---</u>	<u>1.15 0.14</u>
Total S.P.	<u>---</u>	<u>1.52</u>			<u>---</u>	<u>1.29</u>
Voltage $T_1 T_2 T_3$	<u>208</u>	<u>202/204/202</u>			<u>208</u>	<u>202/204/204</u>
Amperage $T_1 T_2 T_3$	<u>6.2</u>	<u>5.7/6.2/6.0</u>			<u>6.2</u>	<u>5.9/6.2/6.2</u>

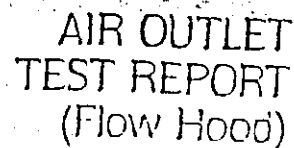
REMARKS: REVISEDTEST DATE April 2001 READINGS BY VPJ/BZ



OUTLET MANUFACTURER - - - - - TEST APPARATUS DIGITAL ANEMOMETER

REMARKS:

PAGE 3 OF 46
8.16



OUTLET MANUFACTURER TITUS TEST APPARATUS Flow hood

REMARKS: REVISED

PAGE 4 OF 46

PROJECT Richard L. Rice School

FAN DATA	FAN NO. <u>HRV #2</u>	FAN NO.	FAN NO. <u>HRV #2</u>			
Location	<u>ATTIC</u>		<u>ATTIC</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV-2000</u>		<u>FV-2000</u>			
Serial Number	<u>19267/32407-000</u>		<u>19267/32407-000</u>			
Type/Class	<u>HRV-UNIT</u>		<u>HRV-UNIT</u>			
Motor Make/Style	<u>LEESON /DP</u>		<u>LEESON /DP</u>			
Motor H.P./RPM/Frame	<u>1.5/1725/F56H</u>		<u>3/4/1725/R556H</u>			
Volts/Phase/Hertz	<u>208/3/60</u>		<u>208/3/60</u>			
F.L. Amps/S.F.	<u>5.6/1.15</u>		<u>2.8/1.25</u>			
Motor Sheave Make/Model	<u>Browning AK 3.0</u>		<u>Browning /AK2.6</u>			
Motor Sheave Diam./Bore	<u>AK3.0 / 5/8"</u>		<u>AK2.6 / 5/8"</u>			
Fan Sheave Make	<u>Browning</u>		<u>Browning</u>			
Fan Sheave Diam./Bore	<u>AK3.6 / 3/4"</u>		<u>AK3.2 / 3/4"</u>			
No. Belts/Make/Size	<u>1/Power twist/9333</u>		<u>1/Power twist/9333</u>			
Sheave & Distance	<u>13 3/4"</u>		<u>5 1/4"</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1610</u>	<u>1653</u>			<u>1400</u>	<u>1462</u>
Fan RPM	<u>---</u>	<u>CALC. 1430</u>			<u>---</u>	<u>1319</u>
S.P. In/Out	<u>---</u>	<u>1.28 0.30</u>			<u>---</u>	<u>0.30 0.01</u>
Total S.P.	<u>---</u>	<u>0.98</u>			<u>---</u>	<u>0.31</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>208</u>	<u>202/204/204</u>			<u>208</u>	<u>202/204/204</u>
Amperage T_1, T_2, T_3	<u>5.6</u>	<u>3.5/3.7/3.8</u>			<u>2.8</u>	<u>2.6/2.4/2.7</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



SYSTEM HRV[#] 2 Supply

TEST APPARATUS Digital Anemometer

REMARKS:

ST DATE SEPT 2000 READINGS BY VLD/RG



SYSTEM HRV 2 Exhaust

TEST APPARATUS DIGITAL ANALYOMETER

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT Richard L. Rice School

FAN DATA	FAN NO. <u>HRV #3</u>	FAN NO.	FAN NO. <u>HRV #3</u>			
Location	<u>ROOF</u>		<u>ROOF</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV-1000</u>		<u>FV-1000</u>			
Serial Number	<u>19267/32498-000</u>		<u>19267/32498-000</u>			
Type/Class	<u>HRV-UNIT</u>		<u>HRV-UNIT</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2/1625/---</u>		<u>3/4/1625/---</u>			
Volts/Phase/Hertz	<u>208/1/60</u>		<u>208/1/60</u>			
F.L. Amps/S.F.	<u>2.8/---</u>		<u>4.0/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave ϕ Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>780</u>	<u>825</u>			<u>1065</u>	<u>1056</u>
Fan RPM	<u>---</u>	<u>DIRECT DRIVE</u>			<u>---</u>	<u>DIRECT DRIVE</u>
S.P. In/Out	<u>---</u>	<u>1.38</u> <u>-0.08</u>			<u>---</u>	<u>0.43</u> <u>-0.04</u>
Total S.P.	<u>---</u>	<u>1.30</u>			<u>---</u>	<u>0.39</u>
Voltage $T_1 T_2 T_3$	<u>208</u>	<u>208</u>			<u>208</u>	<u>208</u>
Amperage $T_1 T_2 T_3$	<u>2.8</u>	<u>2.7</u>			<u>4.0</u>	<u>3.1</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VJD/RG



PROJECT RICHARD L. RICE School SYSTEM HRV #3 SUPPLY
OUTLET MANUFACTURER - - - - - TEST APPARATUS DIGITAL ANEMOMETER

REMARKS: NOTE: OUTLET #1 RM IS TIED DIRECTLY INTO EXISTING HEAT PUMP.
TOTAL FOR OUTLET #1 IS ACTUAL A.M.D. (AIR FLOW MONITOR) READING LESS
THE SUM OF OUTLETS #2 + #3.
$$\text{AIR FLOW MONITOR} = 825 \text{ CFM LESS } 398 \text{ CFM (OUTLETS \#1 + \#2)} = 427 \text{ CFM}$$

ST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TEST APPARATUS Digital Accelerometer

REMARKS:

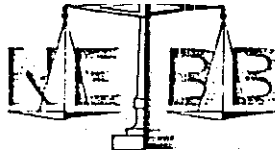
PAGE 10 OF 46
B.1

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #36</u>	FAN NO.	FAN NO. <u>HP #36</u>			
Location	<u>CL. RM 141</u>		<u>CL. RM 142</u>			
Service	<u>CL. RM 141</u>		<u>CL. RM 142</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H036C</u>		<u>CC H036C</u>			
Serial Number	<u>AUBRO22722</u>		<u>AUBRO22718</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / ¹⁰⁷⁵2500 / ---</u>		<u>1/2 / ¹⁰⁷⁵2500 / ---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>3.5 / ---</u>		<u>3.5 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 1/4</u>		<u>17 3/8 x 34 7/8 x 1 1/4</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1200</u>			<u>1200</u>	<u>1190</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.38 / 0.10</u>			<u>---</u>	<u>0.28 / 0.12</u>
Total S.P.	<u>---</u>	<u>0.48</u>			<u>---</u>	<u>0.40</u>
Voltage ^{T₁ T₂ T₃} _{T₃ T₁}	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage ^{T₁ T₂ T₃}	<u>3.5</u>	<u>2.2</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

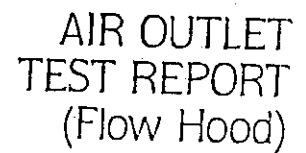
TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #36</u>	FAN NO.	FAN NO. <u>HP #36</u>			
Location	<u>CL. Rm 143</u>		<u>CL. Rm 144</u>			
Service	<u>CL. Rm 143</u>		<u>CL. Rm 144</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4036C</u>		<u>CC4036C</u>			
Serial Number	<u>AUBA022724</u>		<u>AUBA022725</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 3300 / - -</u>		<u>1/2 / 1075 / 3300 / - - -</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / - - -</u>		<u>3.5 / - - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 7/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1170</u>			<u>1200</u>	<u>1180</u>
Fan RPM	<u>- - -</u>	<u>low SPD.</u>			<u>- - -</u>	<u>low SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>0.28 / 0.13</u>			<u>- - -</u>	<u>0.30 / 0.12</u>
Total S.P.	<u>- - -</u>	<u>0.41</u>			<u>- - -</u>	<u>0.42</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>3.5</u>	<u>2.2</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#36</u>	FAN NO.	FAN NO. <u>HP#36</u>			
Location	<u>CL Rm 145</u>		<u>CL Rm 146</u>			
Service	<u>CL Rm 145</u>		<u>CL Rm 146</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H036C</u>		<u>CC H036C</u>			
Serial Number	<u>AUBA022781</u>		<u>AUBA022719</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 2550 / ---</u>		<u>1/2 / 1075 / 2550 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / ---</u>		<u>3.5 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1175</u>			<u>1200</u>	<u>1180</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.30 / 0.11</u>			<u>---</u>	<u>0.31 / 0.12</u>
Total S.P.	<u>---</u>	<u>0.41</u>			<u>---</u>	<u>0.43</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>3.5</u>	<u>2.3</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP# 36</u>	FAN NO.	FAN NO. <u>HP# 36</u>			
Location	<u>CL Rm 151</u>		<u>CL Rm 152</u>			
Service	<u>CL Rm 151</u>		<u>CL Rm 152</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H036C</u>		<u>CC H036C</u>			
Serial Number	<u>AUBAD22720</u>		<u>AUBAD22723</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE JTP</u>		<u>GE JTP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 2510 / - - -</u>		<u>1/2 / 1075 / 2510 / - - -</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / - - -</u>		<u>3.5 / - - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1180</u>			<u>1200</u>	<u>1160</u>
Fan RPM	<u>- - -</u>	<u>low SPD.</u>			<u>- - -</u>	<u>low SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>0.29 / 0.13</u>			<u>- - -</u>	<u>0.24 / 0.14</u>
Total S.P.	<u>- - -</u>	<u>0.32</u>			<u>- - -</u>	<u>0.38</u>
Voltage $\begin{smallmatrix} T_1 T_2 T_2 T_3 \\ T_3 T_1 \end{smallmatrix}$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>3.5</u>	<u>2.3</u>			<u>3.5</u>	<u>2.2</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#9</u>	FAN NO.	FAN NO. <u>HP#19</u>			
Location	<u>CL RM 147</u>		<u>CL RM 148</u>			
Service	<u>CL RM 147</u>		<u>CL RM 148</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 019C</u>		<u>CC H 019C</u>			
Serial Number	<u>AUBAO 22507</u>		<u>AUBAO 22511</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/570 / ---</u>		<u>1/8 / 1075/570 / ---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>600</u>			<u>630</u>	<u>615</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>-0.25 / 0.09</u>			<u>---</u>	<u>-0.26 / 0.10</u>
Total S.P.	<u>---</u>	<u>0.34</u>			<u>---</u>	<u>0.36</u>
Voltage $\frac{T_1-T_2}{T_3-T_1}$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.90</u>	<u>1.0</u>			<u>0.90</u>	<u>0.95</u>

REMARKS:

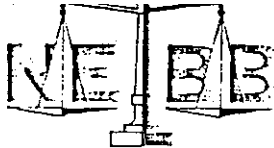
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO. <u>HP#19</u>			
Location	<u>CL RM 149</u>		<u>CL RM 150</u>			
Service	<u>CL RM 149</u>		<u>CL RM 150</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4019C</u>		<u>CC4019C</u>			
Serial Number	<u>AUBA022508</u>		<u>AUBA022509</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075/970 /---</u>		<u>1/2 / 1075/970 /---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 / TA</u>		<u>15x23x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>610</u>			<u>630</u>	<u>615</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>-0.24 / 0.09</u>			<u>---</u>	<u>-0.27 / 0.10</u>
Total S.P.	<u>---</u>	<u>0.33</u>			<u>---</u>	<u>0.37</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.95</u>			<u>0.90</u>	<u>0.90</u>

REMARKS: NOTE: HP#19 CL RM #150 LEFT UNIT OFF AFTER BALANCING COULD BE BAD COMPRESSOR!IS THIS UNIT NOW OPERATING PROPERLY?TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

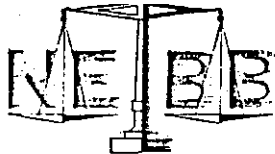
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO.			
Location	<u>STORAGE 153</u>					
Service	<u>STORAGE 153</u>					
Manufacturer	<u>M^cQUAY</u>					
Model Number	<u>CLH019C</u>					
Serial Number	<u>AUBA022510</u>					
Type/Class	<u>HORIZ. / WSHF</u>					
Motor Make/Style	<u>FASCO / TP</u>					
Motor H.P./RPM/Frame	<u>1/2 / 1875/570 / ---</u>					
Volts/Phase/Hertz	<u>230 / 1 / 60</u>					
F.L. Amps/S.F.	<u>0.90 / ---</u>					
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>					
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>					
<u>FILTER</u>	<u>15X23X1 / TA</u>					
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>610</u>				
Fan RPM	<u>---</u>	<u>HIGH SPD.</u>				
S.P. In/Out	<u>---</u>	<u>0.31</u> <u>0.24</u>				
Total S.P.	<u>---</u>	<u>0.55</u>				
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>230</u>	<u>230</u>				
Amperage $T_1 T_2 T_3$	<u>0.90</u>	<u>1.0</u>				

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPO/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #19</u>	FAN NO.	FAN NO. <u>HP #19</u>			
Location	<u>Rm 115 KINDERGARDEN</u>		<u>Rm 115 KINDER GARDEN</u>			
Service	<u>Rm 115 KINDERGARDEN</u>		<u>Rm 115 KINDER GARDEN</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H019C</u>		<u>CC H019C</u>			
Serial Number	<u>AUBA019943</u>		<u>AUBA019944</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>FASCO/ITP</u>		<u>FASCO/ITP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/570 / ---</u> <u>2SPD</u>		<u>1/8 / 1075/570 / ---</u> <u>2SPD</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>665</u>			<u>630</u>	<u>665</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.22</u> <u>0.08</u>			<u>---</u>	<u>0.23</u> <u>0.08</u>
Total S.P.	<u>---</u>	<u>0.30</u>			<u>---</u>	<u>0.31</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE SCHOOL SYSTEM HP 19 RM 115 KINDERGARDEN
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

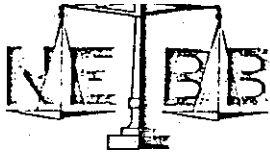
TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #15</u>	FAN NO.	FAN NO. <u>HP #15</u>			
Location	<u>CL. Rm. 157</u>		<u>CL Rm 158</u>			
Service	<u>CL Rm 157</u>		<u>CL Rm 158</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC HOISC</u>		<u>CC HOISC</u>			
Serial Number	<u>AUBAO22497</u>		<u>AUBAO22493</u>			
Type/Class	<u>HORIZ. /WSHP</u>		<u>HORIZ /WSHP</u>			
Motor Make/Style	<u>FASCO /TP</u>		<u>FASCO /TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/970 /---</u>		<u>1/8 / 1075/970 /---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15X23X1 /TA</u>		<u>15X23X1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>460</u>			<u>500</u>	<u>450</u>
Fan RPM	<u>---</u>	<u>LOW SPD.</u>			<u>---</u>	<u>LOW SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.25 / 0.06</u>			<u>---</u>	<u>0.23 / 0.06</u>
Total S.P.	<u>---</u>	<u>0.31</u>			<u>---</u>	<u>0.29</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.80</u>			<u>0.90</u>	<u>0.80</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#15</u>	FAN NO.	FAN NO. <u>HP#15</u>			
Location	<u>CL RM 146</u>		<u>CL RM 142</u>			
Service	<u>ATTIC</u>		<u>ATTIC</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H015C</u>		<u>CC H015C</u>			
Serial Number	<u>AUBA022489</u>		<u>AUBA022492</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/1970</u>		<u>1/8 / 1075/1970</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>516</u>			<u>500</u>	<u>525</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.18 / 0.02</u>			<u>---</u>	<u>0.20 / 0.02</u>
Total S.P.	<u>---</u>	<u>0.20</u>			<u>---</u>	<u>0.22</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

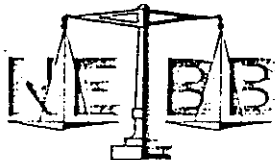
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER _____ TEST APPARATUS DIGITAL AMMOMETER

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE School

FAN DATA.	FAN NO. <u>HP #15</u>	FAN NO.	FAN NO. <u>HP #15</u>			
Location	<u>CORR B3 RM 110</u>		<u>ELEC. RM 181</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H015C</u>		<u>CC H015C</u>			
Serial Number	<u>AUBA022490</u>		<u>AUBA022491</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075/970 / ---</u>		<u>1/2 / 1075/970 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>490</u>			<u>500</u>	<u>515</u>
Fan RPM	<u>---</u>	<u>LOW SPD.</u>			<u>---</u>	<u>LOW SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.22 / 0.12</u>			<u>---</u>	<u>0.20 / 0.13</u>
Total S.P.	<u>---</u>	<u>0.32</u>			<u>---</u>	<u>0.33</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

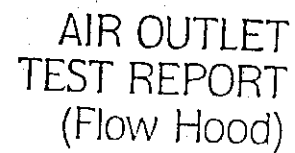
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #12</u>	FAN NO.	FAN NO. <u>HP #12</u>			
Location	<u>Corr Bx CR138</u>		<u>Corr Bx CR135</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4012C</u>		<u>CC4012C</u>			
Serial Number	<u>AUBA022457</u>		<u>AUBA022457</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400/1550 / --</u>		<u>1/8 / 1400/1550 / --</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 /TA</u>		<u>10x24x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>400</u>	<u>395</u>			<u>400</u>	<u>390</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.36 / 0.16</u>			<u>---</u>	<u>0.38 / 0.15</u>
Total S.P.	<u>---</u>	<u>0.52</u>			<u>---</u>	<u>0.53</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.83</u>	<u>0.80</u>			<u>0.83</u>	<u>0.80</u>

REMARKS:

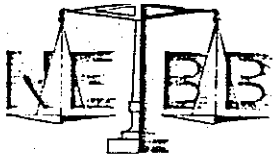
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RILE School

FAN DATA	FAN NO. <u>HP#9</u>	FAN NO.	FAN NO. <u>HP#9</u>			
Location	<u>Coll 303 Bx Rm 150</u>		<u>Coll 303 Bx Rm 146</u>			
Service	<u>Coll 303</u>		<u>Coll 303</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 009C</u>		<u>CC H 009C</u>			
Serial Number	<u>AUBAD035142</u>		<u>AUBAD028999</u>			
Type/Class	<u>horiz. / W5HP</u>		<u>horiz / W5HP</u>			
Motor Make/Style	<u>FASCO / TP</u>		<u>FASCO / TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400 / 550 / ---</u>		<u>1/8 / 1400 / 550 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / TA</u>		<u>10x24x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>300</u>	<u>310</u>			<u>300</u>	<u>300</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.28 / 10.18</u>			<u>---</u>	<u>0.27 / 10.17</u>
Total S.P.	<u>---</u>	<u>0.46</u>			<u>---</u>	<u>0.44</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.83</u>	<u>0.60</u>			<u>0.83</u>	<u>0.60</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP # 89</u>	FAN NO.	FAN NO. <u>HP # 89</u>			
Location	<u>Coll 303 BTRM 141</u>		<u>Coll. 301</u>			
Service	<u>Coll-303</u>		<u>Coll 301</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H009C</u>		<u>CC H009C</u>			
Serial Number	<u>AUBRO</u>		<u>AUBRO 35141</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO 1TA</u>		<u>FASCO 1TA</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400/1550</u>		<u>1/8 / 1400/1550</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / 1TA</u>		<u>10x24x1 / 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>300</u>	<u>300</u>			<u>300</u>	<u>320</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29 / 0.15</u>			<u>---</u>	<u>0.22 / 0.14</u>
Total S.P.	<u>---</u>	<u>0.44</u>			<u>---</u>	<u>0.36</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.83</u>	<u>0.60</u>			<u>0.83</u>	<u>0.60</u>

REMARKS:

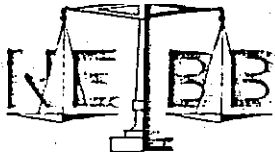
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

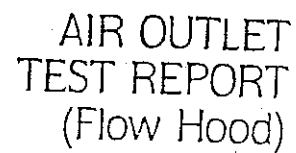
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#07</u>	FAN NO.	FAN NO. <u>HP#07</u>			
Location	<u>Corr By CLRM 160</u>		<u>Corr By CLRM 162</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H007C</u>		<u>CC H007C</u>			
Serial Number	<u>AUBAD022383</u>		<u>AUBAD022402</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / ¹⁵⁵⁰ 2500 / ---</u>		<u>1/20 / ¹⁵⁵⁰ 2500 / ---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 /TA</u>		<u>10x24x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>240</u>			<u>230</u>	<u>250</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29</u>			<u>---</u>	<u>0.30</u>
Total S.P.	<u>---</u>	<u>0.36</u>			<u>---</u>	<u>0.38</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.40</u>			<u>0.46</u>	<u>0.45</u>

REMARKS:

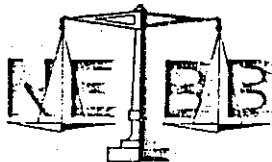
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

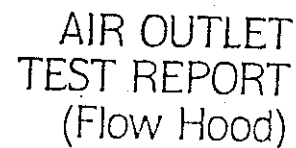
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP # 07</u>	FAN NO.	FAN NO. <u>HP # 07</u>			
Location	<u>Coll Bx Rm 166</u>		<u>Coll Bx Rm 129</u>			
Service	<u>Corridor</u>		<u>Corridor</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H007C</u>		<u>CC H007C</u>			
Serial Number	<u>AUBA022372</u>		<u>AUBA022376</u>			
Type/Class	<u>Horiz. 1WSHP</u>		<u>Horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / ---</u>		<u>1/20 / 1550 / ---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 /TA</u>		<u>10x24x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>225</u>			<u>230</u>	<u>250</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.28 / 0.09</u>			<u>---</u>	<u>0.34 / 0.08</u>
Total S.P.	<u>---</u>	<u>0.37</u>			<u>---</u>	<u>0.42</u>
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.46</u>	<u>0.45</u>			<u>0.46</u>	<u>0.40</u>

REMARKS:

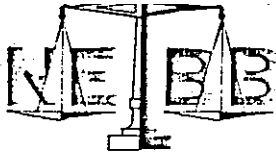
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

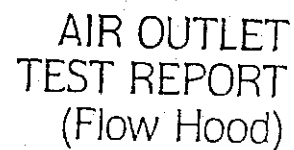
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PROJECT RICHARD L. RILE SCHOOL

FAN DATA	FAN NO. <u>HP#07</u>	FAN NO.	FAN NO. <u>HP#07</u>			
Location	<u>Coll Br Rm 123</u>		<u>Coll Br Rm 121</u>			
Service	<u>Corridor</u>		<u>Corridor</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 007C</u>		<u>CC H 007C</u>			
Serial Number	<u>AUBAD 22371</u>		<u>AUBAD 22373</u>			
Type/Class	<u>Horiz. 1WSHP</u>		<u>Horiz 1WSHP</u>			
Motor Make/Style	<u>Fasco 1TP</u>		<u>Fasco 1TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / ---</u>		<u>1/20 / 1550 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / TA</u>		<u>10x24x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>235</u>			<u>230</u>	<u>235</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.36</u> <u>0.08</u>			<u>---</u>	<u>0.34</u> <u>0.07</u>
Total S.P.	<u>---</u>	<u>0.44</u>			<u>---</u>	<u>0.41</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.40</u>			<u>0.46</u>	<u>0.40</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

PAGE 11 OF 16

44 46

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#01</u>	FAN NO.	FAN NO.			
Location	<u>CORRIDOR 300</u>					
Service	<u>CORRIDOR 300</u>					
Manufacturer	<u>M^cQUAY</u>					
Model Number	<u>CKH007C</u>					
Serial Number	<u>AUBAD22370</u>					
Type/Class	<u>HORIZ./WSHP</u>					
Motor Make/Style	<u>FASCO JTP</u>					
Motor H.P./RPM/Frame	<u>1/20 / 1550 / 25PD / ---</u>					
Volts/Phase/Hertz	<u>230 / 1 / 60</u>					
F.L. Amps/S.F.	<u>0.46 / ---</u>					
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>					
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>					
<u>FILTER</u>	<u>10x24x1 / TA</u>					
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>215</u>				
Fan RPM	<u>---</u>	<u>LOW SPD.</u>				
S.P. In/Out	<u>---</u>	<u>0.20 / 0.06</u>				
Total S.P.	<u>---</u>	<u>0.26</u>				
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>				
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.35</u>				

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPO/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

[illegible]

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



CERT. No. 2572

NATIONAL BALANCING COMPANY, INC.

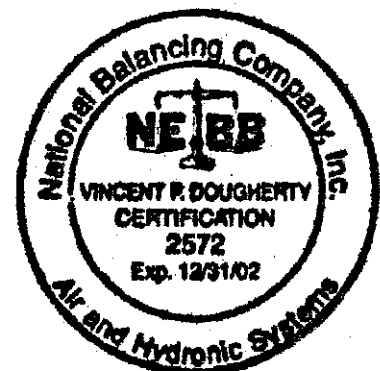
408 OAK AVENUE
CHERRY HILL, NJ 08002

(856) 667-5100 FAX (856) 667-1099

RICHARD L. RICE SCHOOL

EVESHAM TOWNSHIP

HYDRONICS





PUMP TEST REPORT

PROJECT

Richard L. Rice School

	DATA	PUMP NO. <u>HWP-1</u>	PUMP NO.	PUMP NO. <u>HWP-2</u>	PUMP NO.	PUMP NO.
DESIGN	Location	<u>Mech. Rm.</u>		<u>Mech. Rm.</u>		
	Service	<u>HOT WATER</u>		<u>HOT WATER</u>		
	Manufacturer	<u>Bell & Gossett</u>		<u>Bell & Gossett</u>		
	Model Number	<u>2.5 BB8.125 BF</u>		<u>2.5 BB8.125 BF</u>		
	Serial Number	<u>2195171</u>		<u>2195170</u>		
	GPM/Head	<u>223/60</u>		<u>223/60</u>		
	Req. NPSH	<u>---</u>		<u>---</u>		
	Pump RPM	<u>1800</u>		<u>1800</u>		
	Impeller Diam.	<u>8.125</u>		<u>8.125</u>		
	Motor Mfr./Frame	<u>V/SECTRIC/184T</u>		<u>V/SECTRIC/184T</u>		
	Motor HP/RPM	<u>5/1755</u>		<u>5/1755</u>		
	Volts/Phase/Hertz	<u>200/3/60</u>		<u>200/3/60</u>		
	F.L. Amps/S.F.	<u>14.5/1.15</u>		<u>14.5/1.15</u>		
	Seal Type	<u>STANDARD</u>		<u>STANDARD</u>		
ACTUAL	Pump Off-Press.	<u>0</u>		<u>0</u>		
	Valve Shut Diff.	<u>28.6 PSI/66'</u>		<u>28.6 PSI/66'</u>		
	Act. Impeller Diam.	<u>8.125"</u>		<u>8.125"</u>		
	Valve Open Diff.	<u>16 PSI/39'</u>		<u>16 PSI/39'</u>		
	Valve Open GPM	<u>350</u>		<u>350</u>		
	Final Dischg. Press.	<u>46.0 PSI</u>		<u>46.0 PSI</u>		
	Final Suction Press.	<u>20.0 PSI</u>		<u>20.0 PSI</u>		
	Final Δ P	<u>26.0 PSI</u>		<u>26.0 PSI</u>		
	Final GPM	<u>225</u>		<u>225</u>		
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>205/207/208</u>		<u>206/207/208</u>		
	Amperage T_1 T_2 T_3	<u>12.8/13.0/14.2</u>		<u>13.4/13.5/14.5</u>		

REMARKS:

TEST DATE

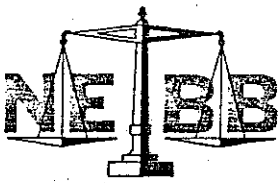
Nov 2020

READINGS BY

VJD

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TEST DATE Nov 2000 READINGS BY VPD



PUMP TEST REPORT

PROJECT Richard L. Rice School

DATA		EXISTING PUMP NO. <u>LWP-3</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>Mech. Rm.</u>				
	Service	<u>LOOP WATER</u>				
	Manufacturer	<u>TACO</u>				
	Model Number	<u>FM 3010/9.75</u>				
	Serial Number	<u>MODEL CONT: BSH1C140</u>				
	GPM/Head	<u>517/---</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1750</u>				
	Impeller Diam.	<u>9.75</u>				
	Motor Mfr./Frame	<u>1/2 ELECTRIC PSYT</u>				
	Motor HP/RPM	<u>15/1745</u>				
	Volts/Phase/Hertz	<u>208/3/60</u>				
	F.L. Amps/S.F.	<u>43.3/1.0</u>				
	Seal Type	<u>---</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>42 PSI / 97'</u>				
	Act. Impeller Diam.	<u>9.75"</u>				
	Valve Open Diff.	<u>31 PSI / 72'</u>				
	Valve Open GPM	<u>APPROX 560</u>				
	Final Dischg. Press.	<u>40.0 PSI</u>				
	Final Suction Press.	<u>7.0 PSI</u>				
	Final Δ P	<u>33.0 PSI</u>				
	Final GPM	<u>520</u>				
	Voltage $\frac{T_1-T_2}{T_3-T_1}$	<u>207/207/208</u>				
	Amperage $T_1 T_2 T_3$	<u>39.4/35.8/36.4</u>				

REMARKS:

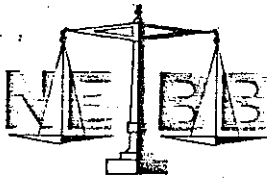
TEST DATE Nov 2000 READINGS BY VPD



PROJECT Richard L. Rice School SYSTEM/UNIT ROOF WATER
LOCATION Evesham Township

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



PUMP TEST REPORT

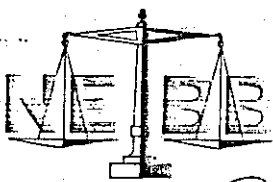
PROJECT

Richard L. Rice School

DATA		PUMP NO. <u>P-4</u>	PUMP NO.	PUMP NO.	PUMP NO. <u>P-4</u>	PUMP NO.
DESIGN	Location	<u>MECH. RM.</u>			<u>MECH RM</u>	
	Service	<u>Common To P-3</u>			<u>Common To P-5</u>	
	Manufacturer	<u>Bell & Gossett</u>			<u>Bell & Gossett</u>	
	Model Number	<u>48C7.625BF</u>			<u>48C7.625BF</u>	
	Serial Number	<u>2194990</u>			<u>2194990</u>	
	GPM/Head	<u>517/-</u>			<u>640/40</u>	
	Req. NPSH	<u>- - - -</u>			<u>- - - -</u>	
	Pump RPM	<u>1860</u>			<u>1800</u>	
	Impeller Diam.	<u>7.625</u>			<u>7.625</u>	
	Motor Mfr./Frame	<u>Baldor/254T</u>			<u>Baldor/254T</u>	
	Motor HP/RPM	<u>15/1760</u>			<u>15/1760</u>	
	Volts/Phase/Hertz	<u>200/3/60</u>			<u>200/3/60</u>	
	F.L. Amps/S.F.	<u>44.8/1.15</u>			<u>44.8/1.15</u>	
	Seal Type	<u>STANDARD</u>			<u>STANDARD</u>	
ACTUAL	Pump Off-Press.	<u>0</u>			<u>0</u>	
	Valve Shut Diff.	<u>- - - -</u>			<u>- - - -</u>	
	Act. Impeller Diam.	<u>- - - -</u>			<u>- - - -</u>	
	Valve Open Diff.	<u>- - - -</u>			<u>- - - -</u>	
	Valve Open GPM	<u>- - - -</u>			<u>- - - -</u>	
	Final Dischg. Press.	<u>- - - -</u>			<u>- - - -</u>	
	Final Suction Press.	<u>- - - -</u>			<u>- - - -</u>	
	Final ΔP	<u>- - - -</u>			<u>- - - -</u>	
	Final GPM	<u>520</u>			<u>640</u>	
	Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>207/208/208</u>			<u>208/207/208</u>	
Amperage $T_1 T_2 T_3$	<u>37.5/36.8/32.6</u>			<u>42.6/43.1/42.4</u>		

REMARKS:

TEST DATE Nov 2008READINGS BY VPO



PUMP TEST REPORT

PROJECT RICHARD L. RICE School

DATA		PUMP NO. <u>1W-P-5</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>mech. RM</u>				
	Service	<u>CONDENSER WATER</u>				
	Manufacturer	<u>Bell & Gossett</u>				
	Model Number	<u>4BC7.625BF</u>				
	Serial Number	<u>2194989</u>				
	GPM/Head	<u>640/40</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1800</u>				
	Impeller Diam.	<u>7.625</u>				
	Motor Mfr./Frame	<u>1/8 ECC M1021ST</u>				
	Motor HP/RPM	<u>10/1760</u>				
	Volts/Phase/Hertz	<u>200/3/60</u>				
	F.L. Amps/S.F.	<u>28.4/1.15</u>				
	Seal Type	<u>STANDARD</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>25 PSI/58'</u>				
	Act. Impeller Diam.	<u>7.625"</u>				
	Valve Open Diff.	<u>18.2 PSI</u>				
	Valve Open GPM	<u>---</u>				
	Final Dischg. Press.	<u>18.2 PSI</u>				
	Final Suction Press.	<u>.7 PSI</u>				
	Final ΔP	<u>17.5 PSI</u>				
	Final GPM	<u>640</u>				
	Voltage T_1, T_2, T_3 T_3, T_1	<u>206/207/208</u>				
	Amperage T_1, T_2, T_3	<u>23.9/23.1/25.2</u>				

REMARKS:

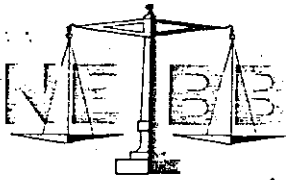
TEST DATE Nov 2000 READINGS BY VPO



LOCATION Evesham Township

REMARKS:

8.27



BALANCE VALVE/FLOW METER TEST REPORT

PROJECT Richard L. Rice School SYSTEM/UNIT Heat Pump / Cool Water
LOCATION Evesham Township

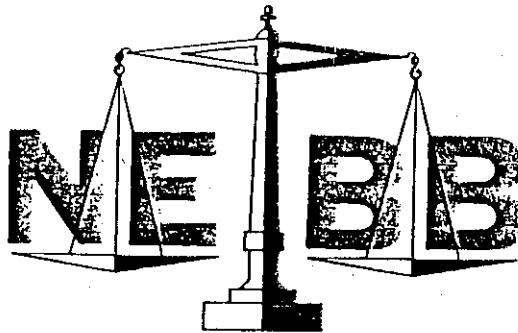
SERVICE OR DESIGNATION	SIZE	MODEL	DESIGN GPM (l/s)	ACTUAL VALVE SETPOINT (DEGREE)	ACTUAL VALVE P.D.	ACTUAL GPM (l/s)	NOTES
CR 141	3/4	Griswold	7.5	AUTO BALANCING	6.0	7.5	HP-36
CR 152					5.0	7.5	
CR 142					5.0	7.5	
CR 151					5.0	7.5	
CR 143					6.0	7.5	
CR 144					5.0	7.5	
CR 145					5.0	7.5	
CR 146	3/4		7.5		4.0	7.5	HP-36
CR 147	1/2		3.8		4.0	3.8	HP-19
CR 148					4.0	3.8	
CR 149					4.0	3.8	
CR 150					5.0	3.8	
KID. 115					5.0	3.8	
KID. 115					6.0	3.8	
STORAGE 153			3.8		5.0	3.8	HP-19
RM 157			2.7		4.0	2.7	HP-15
RM 158					4.0	2.7	
ATTIC					4.0	2.7	
ATTIC					4.0	2.7	
ELEC. 181					5.0	2.7	
CORR (BT RM 110)			2.7		5.0	2.7	HP-15
CORR (BT RM 138)			2.6		4.0	2.6	HP-12
CORR (BT RM 135)	1/2	Griswold	2.6	AUTO BALANCING	5.0	2.6	HP-12

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD

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CERTIFIED TEST, ADJUST, AND BALANCE REPORT

DATE May 2001

PROJECT Richard L. Rice School

ADDRESS Evesham Township

Burlington County, New Jersey

ARCHITECT Wayne Allan Neville, AIA

West Berlin, New Jersey

ENGINEER EMC Consulting Engineers, Inc.

Cinnaminson, New Jersey

HVAC CONTRACTOR B & S Sheetmetal Mechanical

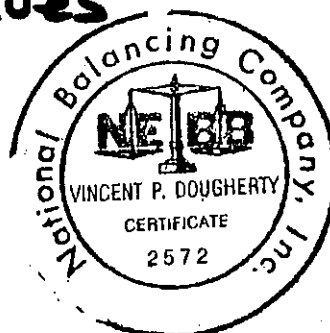
Morrisville, PA

NEBB TAB FIRM National Balancing Company, Inc.

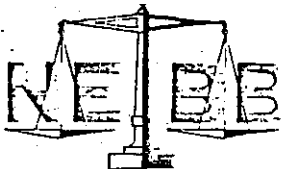
ADDRESS 408 Oak Ave.

Cherry Hill, NJ 08002

**Note: Includes updated values
for HRV-1**



National Environmental Balancing Bureau



CERTIFICATION

PROJECT Richard L. Rice School
ADDRESS Evesham Township
Burlington County, New Jersey

THE DATA PRESENTED IN THIS REPORT IS AN EXACT RECORD OF SYSTEM PERFORMANCE AND WAS OBTAINED IN ACCORDANCE WITH NEBB STANDARD PROCEDURES. ANY VARIANCES FROM DESIGN QUANTITIES WHICH EXCEED NEBB TOLERANCES ARE NOTED THROUGHOUT THIS REPORT.

THE AIR DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS" AND THE PROJECT SPECIFICATIONS.

NEBB TAB FIRM National Balancing Company, Inc.

REG. NO. 2572 CERTIFIED BY Vincent P. Dougherty DATE Sept. 2000
(Air TAB Supervisor)

THE HYDRONIC DISTRIBUTION SYSTEMS HAVE BEEN TESTED & BALANCED AND FINAL ADJUSTMENTS HAVE BEEN MADE IN ACCORDANCE WITH NEBB "PROCEDURAL STANDARDS FOR TESTING, ADJUSTING, BALANCING OF ENVIRONMENTAL SYSTEMS" AND THE PROJECT SPECIFICATIONS.

NEBB TAB FIRM National Balancing Company, Inc.

REG. NO. 2572 CERTIFIED BY Vincent P. Dougherty DATE Sept. 2000
(Hydronic TAB Supervisor)

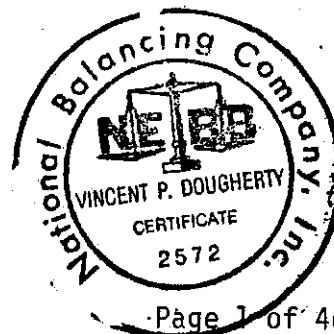
SUBMITTED & CERTIFIED BY:

NEBB TAB FIRM National Balancing Company, Inc.

TAB SUPERVISOR Vincent P. Dougherty

REG. NO. 2572 SIGNATURE Vincent P. Dougherty

DATE Sept. 2000 CERTIFICATION EXPIRATION DATE Dec. 2000



PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HRV #1</u>	FAN NO.	FAN NO. <u>HRV #2</u>			
Location	<u>ATTIC</u>		<u>ATTIC</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV 3000</u>		<u>FV 3000</u>			
Serial Number	<u>19267/32406-000</u>		<u>19267/32406-000</u>			
Type/Class	<u>HRV UNIT</u>		<u>HRV UNIT</u>			
Motor Make/Style	<u>MARATHON / DP</u>		<u>MARATHON / DP</u>			
Motor H.P./RPM/Frame	<u>2/1725/56 H80</u>		<u>2.0/1725/56 H80</u>			
Volts/Phase/Hertz	<u>208/3/60</u>		<u>208/3/60</u>			
F.L. Amps/S.F.	<u>6.2/1.15</u>		<u>6.2/1.15</u>			
Motor Sheave Make/Model	<u>Browning / AK3.4</u>		<u>Browning / 1VL4.4</u>			
Motor Sheave Diam./Bore	<u>AK3.4 / 5/8"</u>		<u>1VL4.4 / 5/8"</u>			
Fan Sheave Make	<u>Browning</u>		<u>Browning</u>			
Fan Sheave Diam./Bore	<u>AK4.4 / 3/4"</u>		<u>AK3.9 / 3/4"</u>			
No. Belts/Make/Size	<u>1/PowerTwist/9333</u>		<u>1/PowerTwist/---</u>			
Sheave ϕ Distance	<u>17 1/4"</u>		<u>14 3/4"</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>2870</u>	<u>2867</u>			<u>2550</u>	<u>2355</u>
Fan RPM	<u>---</u>	<u>1340</u>			<u>---</u>	<u>1415</u>
S.P. In/Out	<u>---</u>	<u>-1.22 / -0.20</u>			<u>---</u>	<u>-1.15 / -0.14</u>
Total S.P.	<u>---</u>	<u>1.52</u>			<u>---</u>	<u>1.29</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>208</u>	<u>202/204/202</u>			<u>208</u>	<u>202/204/204</u>
Amperage T_1 T_2 T_3	<u>6.2</u>	<u>5.7/6.2/6.0</u>			<u>6.2</u>	<u>5.9/6.2/6.2</u>

REMARKS: REVISEDTEST DATE April 2001 READINGS BY VP/BB

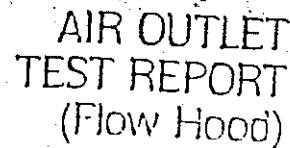


OUTLET MANUFACTURER _____ TEST APPARATUS DIGITAL RICHMOND

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REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flow hood

REMARKS: *REVISED*

PAGE 4 DI 46

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HRV #2</u>	FAN NO.	FAN NO. <u>HRV #2</u>			
Location	<u>ATTIC</u>		<u>ATTIC</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV-2000</u>		<u>FV-2000</u>			
Serial Number	<u>19267/32407-000</u>		<u>19267/32407-000</u>			
Type/Class	<u>HRV-UNIT</u>		<u>HRV-UNIT</u>			
Motor Make/Style	<u>leeson /DP</u>		<u>leeson /DP</u>			
Motor H.P./RPM/Frame	<u>1.5/1725/E56H</u>		<u>3/4/1725/R556H</u>			
Volts/Phase/Hertz	<u>208/3/60</u>		<u>208/3/60</u>			
F.L. Amps/S.F.	<u>5.6/1.15</u>		<u>2.8/1.25</u>			
Motor Sheave Make/Model	<u>Browning AK 3.0</u>		<u>Browning /AK2.6</u>			
Motor Sheave Diam./Bore	<u>AK3.0 / 5/8"</u>		<u>AK2.6 / 5/8"</u>			
Fan Sheave Make	<u>Browning</u>		<u>Browning</u>			
Fan Sheave Diam./Bore	<u>AK3.6 / 3/4"</u>		<u>AK3.2 / 3/4"</u>			
No. Belts/Make/Size	<u>1/PowerTwist/9333</u>		<u>1/PowerTwist/9333</u>			
Sheave ϕ Distance	<u>13 3/4"</u>		<u>5 1/4"</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1610</u>	<u>1653</u>			<u>1400</u>	<u>1462</u>
Fan RPM	<u>---</u>	<u>1430</u>			<u>---</u>	<u>1319</u>
S.P. In/Out	<u>---</u>	<u>1.28</u>			<u>---</u>	<u>0.30</u>
Total S.P.	<u>---</u>	<u>0.98</u>			<u>---</u>	<u>0.31</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>208</u>	<u>202/204/204</u>			<u>208</u>	<u>202/204/204</u>
Amperage T_1 T_2 T_3	<u>5.6</u>	<u>3.5/3.7/3.8</u>			<u>2.8</u>	<u>2.6/2.4/2.7</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER - - - - TEST APPARATUS DIGITAL ANALOMETER

REMARKS:

ST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER - - - - - TEST APPARATUS DIGITAL ANEMOMETER

[illegible]

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HRV #3</u>	FAN NO.	FAN NO. <u>HRV #3</u>			
Location	<u>ROOF</u>		<u>ROOF</u>			
Service	<u>SUPPLY</u>		<u>EXHAUST</u>			
Manufacturer	<u>SEMCO</u>		<u>SEMCO</u>			
Model Number	<u>FV-1000</u>		<u>FV-1000</u>			
Serial Number	<u>19267/32498-000</u>		<u>19267/32498-000</u>			
Type/Class	<u>HRV-UNIT</u>		<u>HRV-UNIT</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2/1625/---</u>		<u>3/4/1625/---</u>			
Volts/Phase/Hertz	<u>208/1/60</u>		<u>208/1/60</u>			
F.L. Amps/S.F.	<u>2.8/---</u>		<u>4.0/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave ϕ Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>780</u>	<u>825</u>			<u>1065</u>	<u>1056</u>
Fan RPM	<u>---</u>	<u>DIRECT DRIVE</u>			<u>---</u>	<u>DIRECT DRIVE</u>
S.P. In/Out	<u>---</u>	<u>1.38 0.08</u>			<u>---</u>	<u>0.43 0.04</u>
Total S.P.	<u>---</u>	<u>1.30</u>			<u>---</u>	<u>0.39</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>208</u>	<u>208</u>			<u>208</u>	<u>208</u>
Amperage T_1 T_2 T_3	<u>2.8</u>	<u>2.7</u>			<u>4.0</u>	<u>3.1</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VLD/RG

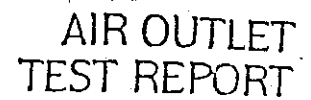


SYSTEM *HRV #3 SUPPLY*

OUTLET MANUFACTURER: — — — — — TEST APPARATUS DIGITAL ANCHROMETER

REMARKS: NOTE: OUTLET #1 RUN INTO DIRECTLY INTO EXISTING HEAT PUMP.
TOTAL FOR OUTLET #1 IS ACTUAL A.M.D. (AIR FLOW MONITOR) READING LESS
OF SUM OF OUTLETS #2 & #3.
AIR FLOW MONITOR = 825 CFM LESS 398 CFM (OUTLETS #1 & #2) = 427 CFM

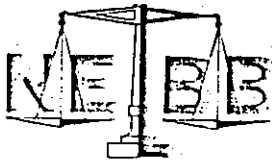
ST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER - - - - - TEST APPARATUS DIGITAL ANCHOROMETER

REMARKS:

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B.16

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#36</u>	FAN NO.	FAN NO. <u>HP#36</u>			
Location	<u>CL. Rm 141</u>		<u>CL. Rm 142</u>			
Service	<u>CL. Rm 141</u>		<u>CL. Rm 142</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H036C</u>		<u>CC H036C</u>			
Serial Number	<u>AUBA022722</u>		<u>AUBA022718</u>			
Type/Class	<u>horiz. lwsHP</u>		<u>horiz lwsHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / ---</u>		<u>1/2 / 1075 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / ---</u>		<u>3.5 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1200</u>			<u>1200</u>	<u>1190</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.38 / 0.10</u>			<u>---</u>	<u>0.28 / 0.12</u>
Total S.P.	<u>---</u>	<u>0.48</u>			<u>---</u>	<u>0.40</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1 T_2 T_3	<u>3.5</u>	<u>2.2</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#36</u>	FAN NO.	FAN NO. <u>HP#36</u>			
Location	<u>CL. RM 143</u>		<u>CL. RM 144</u>			
Service	<u>CL. RM 143</u>		<u>CL. RM 144</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4036C</u>		<u>CC4036C</u>			
Serial Number	<u>AUBA022724</u>		<u>AUBA022725</u>			
Type/Class	<u>horiz. lwsHP</u>		<u>horiz lwsHP</u>			
Motor Make/Style	<u>GE/TP</u>		<u>GE/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 3542 / - -</u>		<u>1/2 / 1075 / 3542 / - - -</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / - - -</u>		<u>3.5 / - - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1170</u>			<u>1200</u>	<u>1180</u>
Fan RPM	<u>- - -</u>	<u>low SPD.</u>			<u>- - -</u>	<u>low SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>0.28 / 0.13</u>			<u>- - -</u>	<u>0.30 / 0.12</u>
Total S.P.	<u>- - -</u>	<u>0.41</u>			<u>- - -</u>	<u>0.42</u>
Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1 T_2 T_3	<u>3.5</u>	<u>2.2</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

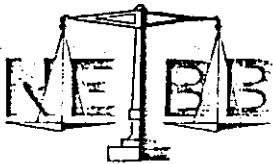
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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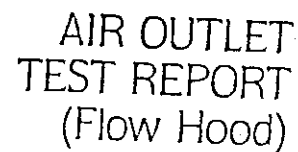
FAN TEST REPORT

PROJECT RICHARD L. RICE SCHOOL

FAN DATA	FAN NO. <u>HP #36</u>		FAN NO.		FAN NO. <u>HP #36</u>	
Location	<u>CL RM 145</u>				<u>CL RM 146</u>	
Service	<u>CL RM 145</u>				<u>CL RM 146</u>	
Manufacturer	<u>McQuay</u>				<u>McQuay</u>	
Model Number	<u>CC4036C</u>				<u>CC4036C</u>	
Serial Number	<u>AUBA022781</u>				<u>AUBA022719</u>	
Type/Class	<u>horiz. lwsHP</u>				<u>horiz lwsHP</u>	
Motor Make/Style	<u>GE/TP</u>				<u>GE/TP</u>	
Motor H.P./RPM/Frame	<u>1/2 1075 250/---</u>				<u>1/2 1075 250/---</u>	
Volts/Phase/Hertz	<u>230/1/60</u>				<u>230/1/60</u>	
F.L. Amps/S.F.	<u>3.5/---</u>				<u>3.5/---</u>	
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>				<u>DIRECT DRIVE</u>	
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>				<u>DIRECT DRIVE</u>	
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1/TA</u>				<u>17 3/8 x 34 7/8 x 1/TA</u>	
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1175</u>			<u>1200</u>	<u>1180</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.30 / 40.11</u>			<u>---</u>	<u>0.31 / 40.12</u>
Total S.P.	<u>---</u>	<u>0.41</u>			<u>---</u>	<u>0.43</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>3.5</u>	<u>2.3</u>			<u>3.5</u>	<u>2.3</u>

REMARKS:

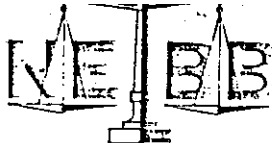
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER: TITUS TEST APPARATUS: Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#36</u>	FAN NO.	FAN NO. <u>HP#36</u>			
Location	<u>CL Rm 151</u>		<u>CL Rm 152</u>			
Service	<u>CL Rm 151</u>		<u>CL Rm 152</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4036C</u>		<u>CC4036C</u>			
Serial Number	<u>AUBA022720</u>		<u>AUBA022723</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>GE JTP</u>		<u>GE JTP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075 / 2510 / - - -</u>		<u>1/2 / 1075 / 2510 / - - -</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>3.5 / - - -</u>		<u>3.5 / - - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>17 3/8 x 34 7/8 x 1 / TA</u>		<u>17 3/8 x 34 7/8 x 1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>1200</u>	<u>1180</u>			<u>1200</u>	<u>1160</u>
Fan RPM	<u>- - -</u>	<u>low SPD.</u>			<u>- - -</u>	<u>low SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>0.29 / 0.13</u>			<u>- - -</u>	<u>0.24 / 0.14</u>
Total S.P.	<u>- - -</u>	<u>0.32</u>			<u>- - -</u>	<u>0.38</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>3.5</u>	<u>2.3</u>			<u>3.5</u>	<u>2.2</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO. <u>HP#19</u>			
Location	<u>CL RM 147</u>		<u>CL RM 148</u>			
Service	<u>CL RM 147</u>		<u>CL RM 148</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 019C</u>		<u>CC H 019C</u>			
Serial Number	<u>AUBAO 22507</u>		<u>AUBAO 22511</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 1075/570/---</u>		<u>1/2 1075/570/---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90/---</u>		<u>0.90/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1/TA</u>		<u>15x23x1/TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>600</u>			<u>630</u>	<u>615</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.25 / 0.09</u>			<u>---</u>	<u>0.26 / 0.10</u>
Total S.P.	<u>---</u>	<u>0.34</u>			<u>---</u>	<u>0.36</u>
Voltage $T_1 T_2 T_3$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.90</u>	<u>1.0</u>			<u>0.90</u>	<u>0.95</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO. <u>HP#19</u>			
Location	<u>CL RM 149</u>		<u>CL RM 150</u>			
Service	<u>CL RM 149</u>		<u>CL RM 150</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 019C</u>		<u>CC H 019C</u>			
Serial Number	<u>AUBA022508</u>		<u>AUBA022509</u>			
Type/Class	<u>horiz. / WSHF</u>		<u>horiz. / WSHF</u>			
Motor Make/Style	<u>FASCO / TP</u>		<u>FASCO / TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075/570 / ---</u>		<u>1/2 / 1075/570 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 / TA</u>		<u>15x23x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>610</u>			<u>630</u>	<u>615</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.24 / 0.09</u>			<u>---</u>	<u>0.27 / 0.10</u>
Total S.P.	<u>---</u>	<u>0.33</u>			<u>---</u>	<u>0.37</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.95</u>			<u>0.90</u>	<u>0.90</u>

REMARKS: NOTE: HP#19 CL RM #150 LEFT UNIT OFF AFTER BALANCING COULD BE BAD COMPRESSOR!IS THIS UNIT NOW OPERATING PROPERLY?TEST DATE SEPT 2000 READINGS BY VPD/RG

AIR OUTLET TEST REPORT (Flow Hood)

PROJECT RICHARD L. KICE SCHOOL SYSTEM HP 19 CERNs 1494150
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

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REMARKS:

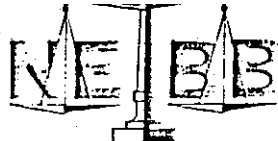
TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#19</u>	FAN NO.	FAN NO.			
Location	<u>STORAGE 153</u>					
Service	<u>STORAGE 153</u>					
Manufacturer	<u>M^cQUAY</u>					
Model Number	<u>CEH019C</u>					
Serial Number	<u>AUBA022510</u>					
Type/Class	<u>HORIZ. / WSHF</u>					
Motor Make/Style	<u>FASCO / TP</u>					
Motor H.P./RPM/Frame	<u>1/8 / 1075/570 / ---</u>					
Volts/Phase/Hertz	<u>230 / 1 / 60</u>					
F.L. Amps/S.F.	<u>0.90 / ---</u>					
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>					
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>					
<u>FILTER</u>	<u>15X23X1 / TA</u>					
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>610</u>				
Fan RPM	<u>---</u>	<u>HIGH SPD.</u>				
S.P. In/Out	<u>---</u>	<u>0.31</u>				
Total S.P.	<u>---</u>	<u>0.24</u>				
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>230</u>	<u>230</u>				
Amperage $T_1 T_2 T_3$	<u>0.90</u>	<u>1.0</u>				

REMARKS:

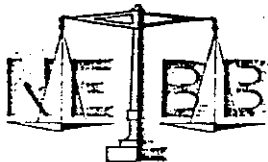
TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #9</u>	FAN NO.	FAN NO. <u>HP #9</u>			
Location	<u>Rm 115 KINDERGARDEN</u>		<u>Rm 115 KINDER GARDEN</u>			
Service	<u>Rm 115 KINDER GARDEN</u>		<u>Rm 115 KINDER GARDEN</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4019C</u>		<u>CC4019C</u>			
Serial Number	<u>AUBA019943</u>		<u>AUBA019944</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075/570</u>		<u>1/2 / 1075/570</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / - - -</u>		<u>0.90 / - - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 / 1TA</u>		<u>15x23x1 / 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>630</u>	<u>665</u>			<u>630</u>	<u>665</u>
Fan RPM	<u>- - -</u>	<u>High SPD.</u>			<u>- - -</u>	<u>SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>-0.22 / 0.08</u>			<u>- - -</u>	<u>-0.22 / 0.08</u>
Total S.P.	<u>- - -</u>	<u>0.30</u>			<u>- - -</u>	<u>0.31</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#15</u>	FAN NO.	FAN NO. <u>HP#15</u>			
Location	<u>CL. RM. 157</u>		<u>CL RM 158</u>			
Service	<u>CL RM 157</u>		<u>CL RM 158</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H015C</u>		<u>CC H015C</u>			
Serial Number	<u>AUBAO22497</u>		<u>AUBAO22493</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/1TP</u>		<u>FASCO/1TP</u>			
Motor H.P./RPM/Frame	<u>1/2 1075/970</u>		<u>1/2 1075/970</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90/---</u>		<u>0.90/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15X23X1/TA</u>		<u>15X23X1/TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>460</u>			<u>500</u>	<u>450</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.23/0.06</u>			<u>---</u>	<u>0.23/0.06</u>
Total S.P.	<u>---</u>	<u>0.31</u>			<u>---</u>	<u>0.29</u>
Voltage $T_1 T_2 T_3$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.90</u>	<u>0.80</u>			<u>0.90</u>	<u>0.80</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #15</u>	FAN NO.	FAN NO. <u>HP #15</u>			
Location	<u>CL. RM 146</u>		<u>CL. RM 142</u>			
Service	<u>ATTIC</u>		<u>ATTIC</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC4015C</u>		<u>CC4015C</u>			
Serial Number	<u>AUBA022489</u>		<u>AUBA022492</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1075/1970</u>		<u>1/8 / 1075/1970</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.90 / - - -</u>		<u>0.90 / - - -</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>516</u>			<u>500</u>	<u>525</u>
Fan RPM	<u>- - -</u>	<u>low SPD.</u>			<u>- - -</u>	<u>low SPD.</u>
S.P. In/Out	<u>- - -</u>	<u>-0.18 / +0.02</u>			<u>- - -</u>	<u>-0.20 / +0.02</u>
Total S.P.	<u>- - -</u>	<u>0.20</u>			<u>- - -</u>	<u>0.22</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



SYSTEM HP 15 CLRN 1464142 ATTIC

TEST APPARATUS DIGITAL ANALOG METER

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #5</u>	FAN NO.	FAN NO. <u>HP #15</u>			
Location	<u>Corr B3 Rm 110</u>		<u>ELEC. Rm 181</u>			
Service	<u>Corridor</u>		<u>Corridor</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H015C</u>		<u>CC H015C</u>			
Serial Number	<u>AUBA022490</u>		<u>AUBA022491</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/2 / 1075/970 / ---</u>		<u>1/2 / 1075/970 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.90 / ---</u>		<u>0.90 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>15x23x1 /TA</u>		<u>15x23x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>500</u>	<u>490</u>			<u>500</u>	<u>515</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.22 / 0.12</u>			<u>---</u>	<u>0.20 / 0.13</u>
Total S.P.	<u>---</u>	<u>0.32</u>			<u>---</u>	<u>0.33</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.90</u>	<u>0.90</u>			<u>0.90</u>	<u>0.90</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

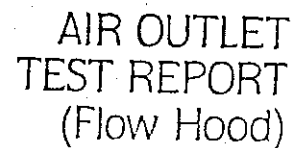
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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #2</u>	FAN NO.	FAN NO. <u>HP #12</u>			
Location	<u>CONN B5 CR 138</u>		<u>CONN B5 CR 135</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 012C</u>		<u>CC H 012C</u>			
Serial Number	<u>AUBA022457</u>		<u>AUBA022457</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO ITP</u>		<u>FASCO ITP</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400/1550</u>		<u>1/8 / 1400/1550</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 /TA</u>		<u>10x24x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>400</u>	<u>395</u>			<u>400</u>	<u>390</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.36 / 0.16</u>			<u>---</u>	<u>0.38 / 0.15</u>
Total S.P.	<u>---</u>	<u>0.52</u>			<u>---</u>	<u>0.53</u>
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.83</u>	<u>0.80</u>			<u>0.83</u>	<u>0.80</u>

REMARKS:

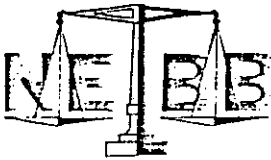
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP#9</u>	FAN NO.	FAN NO. <u>HP#9</u>			
Location	<u>Coll 303 Bx Rm 150</u>		<u>Coll 303 Bx Rm 146</u>			
Service	<u>Coll 303</u>		<u>Coll 303</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H 009C</u>		<u>CC H 009C</u>			
Serial Number	<u>AUBAD35142</u>		<u>AUBAD28999</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO 1TP</u>		<u>FASCO 1TP</u>			
Motor H.P./RPM/Frame	<u>1/8 1400/1550</u>		<u>1/8 1400/1550</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.83/---</u>		<u>0.83/---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 1TA</u>		<u>10x24x1 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>300</u>	<u>310</u>			<u>300</u>	<u>300</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.28</u>			<u>---</u>	<u>0.27</u>
Total S.P.	<u>---</u>	<u>0.46</u>			<u>---</u>	<u>0.44</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.83</u>	<u>0.60</u>			<u>0.83</u>	<u>0.60</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



PROJECT RICHARD L. RICE School SYSTEM HP # D9 Coll 303
OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG

PROJECT RICHARD L. RILE SCHOOL

FAN DATA	FAN NO. <u>HP#89</u>	FAN NO.	FAN NO. <u>HP#89</u>			
Location	<u>CONN 303 BIRM 141</u>		<u>CONN. 301</u>			
Service	<u>CONN-303</u>		<u>CONN 301</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H009C</u>		<u>CC H009C</u>			
Serial Number	<u>AUBRO</u>		<u>AUBRO 35141</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO 1TA</u>		<u>FASCO 1TA</u>			
Motor H.P./RPM/Frame	<u>1/8 / 1400/550 / ---</u>		<u>1/8 / 1400/550 / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.83 / ---</u>		<u>0.83 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / 1TA</u>		<u>10x24x1 / 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>300</u>	<u>300</u>			<u>300</u>	<u>320</u>
Fan RPM	<u>---</u>	<u>low SPD.</u>			<u>---</u>	<u>low SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29 / 0.15</u>			<u>---</u>	<u>0.22 / 0.14</u>
Total S.P.	<u>---</u>	<u>0.44</u>			<u>---</u>	<u>0.36</u>
Voltage T_1, T_2, T_3 T_3, T_1	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Ampérage T_1, T_2, T_3	<u>0.83</u>	<u>0.60</u>			<u>0.83</u>	<u>0.60</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VJD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP # 07</u>	FAN NO.	FAN NO. <u>HP # 07</u>			
Location	<u>COLL BY CLRM 160</u>		<u>COLL BY CLRM 162</u>			
Service	<u>CORRIDOR</u>		<u>CORRIDOR</u>			
Manufacturer	<u>McQUAY</u>		<u>McQUAY</u>			
Model Number	<u>CC4007C</u>		<u>CC4007C</u>			
Serial Number	<u>AUBAD22383</u>		<u>AUBAD22402</u>			
Type/Class	<u>HORIZ. 1WSHP</u>		<u>HORIZ 1WSHP</u>			
Motor Make/Style	<u>FASCO/TP</u>		<u>FASCO/TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / 250D / ---</u>		<u>1/20 / 1550 / 250D / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / 1TA</u>		<u>10x24x1 / 1TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>240</u>			<u>230</u>	<u>250</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.29 / 10.07</u>			<u>---</u>	<u>0.30 / 10.08</u>
Total S.P.	<u>---</u>	<u>0.36</u>			<u>---</u>	<u>0.38</u>
Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage $T_1 T_2 T_3$	<u>0.46</u>	<u>0.40</u>			<u>0.46</u>	<u>0.45</u>

REMARKS:

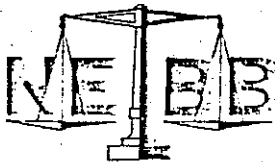
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

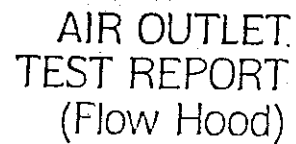
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PROJECT RICHARD L. RICE SCHOOL

FAN DATA	FAN NO. <u>HP # 07</u>	FAN NO.	FAN NO. <u>HP # 07</u>			
Location	<u>Coll Bx Rm 166</u>		<u>Coll Bx Rm 129</u>			
Service	<u>COLLIDON</u>		<u>COLLIDON</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H007C</u>		<u>CC H007C</u>			
Serial Number	<u>AUBAO 22372</u>		<u>AUBAO 22376</u>			
Type/Class	<u>horiz. 1WSHP</u>		<u>horiz 1WSHP</u>			
Motor Make/Style	<u>FASCO / TP</u>		<u>FASCO / TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / 25PD / ---</u>		<u>1/20 / 1550 / 25PD / ---</u>			
Volts/Phase/Hertz	<u>230 / 1 / 60</u>		<u>230 / 1 / 60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 / TA</u>		<u>10x24x1 / TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>225</u>			<u>230</u>	<u>250</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>0.28 / 0.09</u>			<u>---</u>	<u>0.34 / 0.08</u>
Total S.P.	<u>---</u>	<u>0.37</u>			<u>---</u>	<u>0.42</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.45</u>			<u>0.46</u>	<u>0.40</u>

REMARKS:

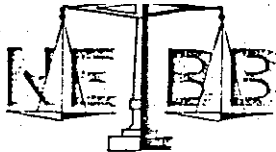
TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER Titus TEST APPARATUS Flowhood

REMARKS:

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #07</u>	FAN NO.	FAN NO. <u>HP #07</u>			
Location	<u>Coll Bx Rm 123</u>		<u>Coll. Bx Rm 121</u>			
Service	<u>Corridor</u>		<u>Corridor</u>			
Manufacturer	<u>McQuay</u>		<u>McQuay</u>			
Model Number	<u>CC H007C</u>		<u>CC H007C</u>			
Serial Number	<u>AUBA022371</u>		<u>AUBA022373</u>			
Type/Class	<u>horiz. lwsHP</u>		<u>horiz lwsHP</u>			
Motor Make/Style	<u>FASCO /TP</u>		<u>FASCO /TP</u>			
Motor H.P./RPM/Frame	<u>1/20 / 1550 / ---</u>		<u>1/20 / 1550 / ---</u>			
Volts/Phase/Hertz	<u>230/1/60</u>		<u>230/1/60</u>			
F.L. Amps/S.F.	<u>0.46 / ---</u>		<u>0.46 / ---</u>			
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>		<u>DIRECT DRIVE</u>			
<u>FILTER</u>	<u>10x24x1 /TA</u>		<u>10x24x1 /TA</u>			
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>235</u>			<u>230</u>	<u>235</u>
Fan RPM	<u>---</u>	<u>High SPD.</u>			<u>---</u>	<u>High SPD.</u>
S.P. In/Out	<u>---</u>	<u>-0.36</u>			<u>---</u>	<u>-0.34</u>
Total S.P.	<u>---</u>	<u>+0.08</u>			<u>---</u>	<u>+0.07</u>
Voltage T_1, T_2, T_3	<u>230</u>	<u>230</u>			<u>230</u>	<u>230</u>
Amperage T_1, T_2, T_3	<u>0.46</u>	<u>0.40</u>			<u>0.46</u>	<u>0.40</u>

REMARKS:

TEST DATE SEPT 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

National Environmental Balancing Bureau
Report Not Valid Unless Stamped with
NEBB Certification Seal

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PROJECT RICHARD L. RICE School

FAN DATA	FAN NO. <u>HP #</u>	FAN NO.	FAN NO.			
Location	<u>CORRIDOR 300</u>					
Service	<u>CORRIDOR 300</u>					
Manufacturer	<u>M^cQuay</u>					
Model Number	<u>CLH007L</u>					
Serial Number	<u>AUBA022370</u>					
Type/Class	<u>HORIZ./WSHP</u>					
Motor Make/Style	<u>FASCO/TP</u>					
Motor H.P./RPM/Frame	<u>1/20/1550 2SPD/---</u>					
Volts/Phase/Hertz	<u>230/1/60</u>					
F.L. Amps/S.F.	<u>0.46/---</u>					
Motor Sheave Make/Model	<u>DIRECT DRIVE</u>					
Motor Sheave Diam./Bore						
Fan Sheave Make						
Fan Sheave Diam./Bore						
No. Belts/Make/Size						
Sheave & Distance	<u>DIRECT DRIVE</u>					
<u>FILTER</u>	<u>10x24x1/TA</u>					
TEST DATA	DESIGN	ACTUAL	DESIGN	ACTUAL	DESIGN	ACTUAL
CFM	<u>230</u>	<u>215</u>				
Fan RPM	<u>---</u>	<u>LOW SPD.</u>				
S.P. In/Out	<u>---</u>	<u>0.20</u> <u>70.06</u>				
Total S.P.	<u>---</u>	<u>0.26</u>				
Voltage $\frac{T_1-T_2}{T_3-T_1}$	<u>230</u>	<u>230</u>				
Amperage $T_1 T_2 T_3$	<u>0.46</u>	<u>0.35</u>				

REMARKS:

TEST DATE Sept 2000 READINGS BY VPD/RG



OUTLET MANUFACTURER TITUS TEST APPARATUS Flowhood

REMARKS:

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CERT. No. 2572

NATIONAL BALANCING COMPANY, INC.

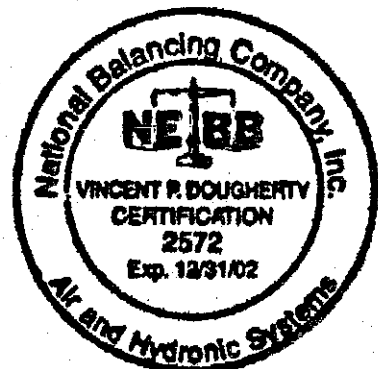
408 OAK AVENUE
CHERRY HILL, NJ 08002

(856) 667-5100 FAX (856) 667-1099

RICHARD L. RICE SCHOOL

EVESHAM TOWNSHIP

HYDRONICS





PUMP TEST REPORT

PROJECT Richard L. Rice School

	DATA	PUMP NO. <i>Half-1</i>	PUMP NO.	PUMP NO. <i>Half-2</i>	PUMP NO.	PUMP NO.
DESIGN	Location	<i>Mech. Rm.</i>		<i>Mech. Rm.</i>		
	Service	<i>HOT WATER</i>		<i>HOT WATER</i>		
	Manufacturer	<i>Bell & Gossett</i>		<i>Bell & Gossett</i>		
	Model Number	<i>2.5 BB8.125BF</i>		<i>2.5 BB8.125BF</i>		
	Serial Number	<i>2195171</i>		<i>2195170</i>		
	GPM/Head	<i>223/60</i>		<i>223/60</i>		
	Req. NPSH	<i>- - - -</i>		<i>- - - -</i>		
	Pump RPM	<i>1800</i>		<i>1800</i>		
	Impeller Diam.	<i>8.125</i>		<i>8.125</i>		
	Motor Mfr./Frame	<i>WELLECTRIC/184T</i>		<i>WELLECTRIC/184T</i>		
	Motor HP/RPM	<i>5/1755</i>		<i>5/1755</i>		
	Volts/Phase/Hertz	<i>200/3/60</i>		<i>200/3/60</i>		
	F.L. Amps/S.F.	<i>14.5/1.15</i>		<i>14.5/1.15</i>		
	Seal Type	<i>STANDARD</i>		<i>STANDARD</i>		
ACTUAL	Pump Off-Press.	<i>0</i>		<i>0</i>		
	Valve Shut Diff.	<i>28.6 PSI/66'</i>		<i>28.6 PSI/66'</i>		
	Act. Impeller Diam.	<i>8.125"</i>		<i>8.125"</i>		
	Valve Open Diff.	<i>16 PSI/37'</i>		<i>16 PSI/37'</i>		
	Valve Open GPM	<i>350</i>		<i>350</i>		
	Final Dischg. Press.	<i>46.0 PSI</i>		<i>46.0 PSI</i>		
	Final Suction Press.	<i>20.0 PSI</i>		<i>20.0 PSI</i>		
	Final Δ P	<i>26.0 PSI</i>		<i>26.0 PSI</i>		
	Final GPM	<i>225</i>		<i>225</i>		
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<i>205/207/208</i>		<i>206/207/208</i>		
	Amperage T_1 T_2 T_3	<i>12.8/13.0/14.2</i>		<i>13.4/13.5/14.5</i>		

REMARKS:

TEST DATE Nov 2000 READINGS BY VJD

[illegible]

REMARKS: When TRIME DOTS VALUE IS CLOSED TO 100%, IN ORDER TO OBTAIN 825 GPM AS PER PUMP CURVE, THE DELTA "P" ACROSS THE TRIME DOTS IS 56.0', THERE IS NO PUBLISHED DATA BY BELL & GOSSETT. THESE TYPE OF VALUES OVER 25.0'

2) Thrust Duct open / 20% Delta "P" = 25.0' = 290 GPM.

TEST DATE Nov 2000 READINGS BY VPD



PUMP TEST REPORT

PROJECT Richard L. Rice School

DATA		EXISTING PUMP NO. <u>LWP-3</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>Mech. Rm.</u>				
	Service	<u>Loop Water</u>				
	Manufacturer	<u>TACO</u>				
	Model Number	<u>FM 3010/9.75</u>				
	Serial Number <u>MOD. 000001</u>	<u>B5H1C140</u>				
	GPM/Head	<u>512/---</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1750</u>				
	Impeller Diam.	<u>9.75</u>				
	Motor Mfr./Frame	<u>VE ELECTRIC/PS4T</u>				
	Motor HP/RPM	<u>15/1745</u>				
	Volts/Phase/Hertz	<u>208/3/60</u>				
	F.L. Amps/S.F.	<u>43.3/1.0</u>				
	Seal Type	<u>---</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>42 PSI/97'</u>				
	Act. Impeller Diam.	<u>9.75"</u>				
	Valve Open Diff.	<u>31 PSI/72'</u>				
	Valve Open GPM	<u>APPROX 560</u>				
	Final Dischg. Press.	<u>40.0 PSI</u>				
	Final Suction Press.	<u>7.0 PSI</u>				
	Final Δ P	<u>33.0 PSI</u>				
	Final GPM	<u>520</u>				
	Voltage $T_1-T_2-T_3$ T_3-T_1	<u>207/207/208</u>				
	Amperage $T_1 T_2 T_3$	<u>39.4/35.8/36.4</u>				

REMARKS:

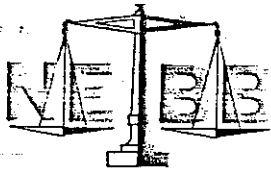
TEST DATE Nov 2000 READINGS BY VPD



PROJECT Richard L. Rice School SYSTEM/UNIT Roof Water
LOCATION Evesham Township

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



PUMP TEST REPORT

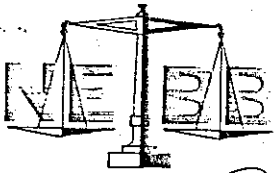
PROJECT

Richard L. Rice School

	DATA	PUMP NO. <u>P-4</u>	PUMP NO.	PUMP NO.	PUMP NO. <u>P-4</u>	PUMP NO.
DESIGN	Location	<u>MECH. RM.</u>			<u>MECH. RM.</u>	
	Service	<u>Common To P-3</u>			<u>Common To P-5</u>	
	Manufacturer	<u>Bell & Gossett</u>			<u>Bell & Gossett</u>	
	Model Number	<u>4BC7.625BF</u>			<u>4BC7.625BF</u>	
	Serial Number	<u>2194990</u>			<u>2194990</u>	
	GPM/Head	<u>517/---</u>			<u>640/40</u>	
	Req. NPSH	<u>---</u>			<u>---</u>	
	Pump RPM	<u>1860</u>			<u>1800</u>	
	Impeller Diam.	<u>7.625</u>			<u>7.625</u>	
	Motor Mfr./Frame	<u>Baldor/254T</u>			<u>Baldor/254T</u>	
	Motor HP/RPM	<u>15/1760</u>			<u>15/1760</u>	
	Volts/Phase/Hertz	<u>200/3/60</u>			<u>200/3/60</u>	
	F.L. Amps/S.F.	<u>44.8/1.15</u>			<u>44.8/1.15</u>	
	Seal Type	<u>STANDARD</u>			<u>STANDARD</u>	
ACTUAL	Pump Off-Press.	<u>0</u>			<u>0</u>	
	Valve Shut Diff.	<u>---</u>			<u>---</u>	
	Act. Impeller Diam.	<u>---</u>			<u>---</u>	
	Valve Open Diff.	<u>---</u>			<u>---</u>	
	Valve Open GPM	<u>---</u>			<u>---</u>	
	Final Dischg. Press.	<u>---</u>			<u>---</u>	
	Final Suction Press.	<u>---</u>			<u>---</u>	
	Final ΔP	<u>---</u>			<u>---</u>	
	Final GPM	<u>520</u>			<u>640</u>	
	Voltage $T_1 T_2 T_3$ $T_3 T_1$	<u>207/208/208</u>			<u>208/207/208</u>	
	Amperage $T_1 T_2 T_3$	<u>37.5/36.8/37.6</u>			<u>42.6/43.1/42.4</u>	

REMARKS:

TEST DATE Nov 2008READINGS BY WPO



PUMP TEST REPORT

PROJECT

Richard L. Rice School

DATA		PUMP NO. <u>1WP-5</u>	PUMP NO.	PUMP NO.	PUMP NO.	PUMP NO.
DESIGN	Location	<u>mech. Rm</u>				
	Service	<u>CONDENSER WATER</u>				
	Manufacturer	<u>Bella Gossett</u>				
	Model Number	<u>4BC7.625BF</u>				
	Serial Number	<u>2194989</u>				
	GPM/Head	<u>640/40</u>				
	Req. NPSH	<u>---</u>				
	Pump RPM	<u>1800</u>				
	Impeller Diam.	<u>7.625</u>				
	Motor Mfr./Frame	<u>UPBCECTMGPST</u>				
	Motor HP/RPM	<u>10/1760</u>				
	Volts/Phase/Hertz	<u>200/3/60</u>				
	F.L. Amps/S.F.	<u>28.4/1.15</u>				
	Seal Type	<u>STANDARD</u>				
ACTUAL	Pump Off-Press.	<u>0</u>				
	Valve Shut Diff.	<u>25 PSI/58'</u>				
	Act. Impeller Diam.	<u>7.625"</u>				
	Valve Open Diff.	<u>18.2 PSI</u>				
	Valve Open GPM	<u>---</u>				
	Final Dischg. Press.	<u>18.2 PSI</u>				
	Final Suction Press.	<u>.7 PSI</u>				
	Final ΔP	<u>17.5 PSI</u>				
	Final GPM	<u>640</u>				
	Voltage T_1-T_2 T_2-T_3 T_3-T_1	<u>206/207/208</u>				
	Amperage T_1 T_2 T_3	<u>23.9/23.1/25.2</u>				

REMARKS:

TEST DATE

Nov 2000

READINGS BY

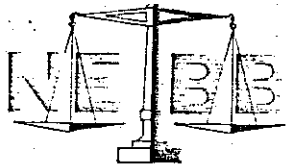
VPD



LOCATION EvESHAM Township

REMARKS:

8.27



BALANCE VALVE/FLOW METER TEST REPORT

PROJECT Richard L. Rice School SYSTEM/UNIT HEAT PUMP HOOD WATER
LOCATION Evesham Township

SERVICE OR DESIGNATION	SIZE	MODEL	DESIGN GPM (l/s)	ACTUAL VALVE SETPOINT (DEGREE)	ACTUAL VALVE P.D.	ACTUAL GPM (l/s)	NOTES
CR 141	3/4	Grasswood	7.5	AUTO BALANCING	6.0	7.5	HP-36
CR 152					5.0	7.5	
CR 142					5.0	7.5	
CR 151					5.0	7.5	
CR 143					6.0	7.5	
CR 144					5.0	7.5	
CR 145					5.0	7.5	
CR 146	3/4		7.5		4.0	7.5	HP-36
CR 147	1/2		3.8		4.0	3.8	HP-19
CR 148					4.0	3.8	
CR 149					4.0	3.8	
CR 150					5.0	3.8	
KID. 115					5.0	3.8	
KID. 115					6.0	3.8	
STORAGE 153			3.8		5.0	3.8	HP-19
Rm 157			2.7		4.0	2.7	HP-15
Rm 158					4.0	2.7	
ATTIC					4.0	2.7	
ATTIC					4.0	2.7	
ELEC. 181					5.0	2.7	
CORR (BY RM) 110			2.7		5.0	2.7	HP-15
CORR (BY RM) 138			2.6		4.0	2.6	HP-12
CORR (BY RM) 135	1/2	Grasswood	2.6	AUTO BALANCING	5.0	2.6	HP-12

REMARKS:

TEST DATE Nov 2000 READINGS BY VPD



SYSTEM/UNIT HEAT PUMP/COOL WATER

[illegible]

REMARKS:

TEST DATE Nov 2000 READINGS BY VP