

OUTLET & INLET TEST SHEET

DATE: 4/00

SHEET NO: ①

PROJECT: *MARLTON E.S.*
~~Aene # 1776~~

SYSTEM: *1. heat pumps*

ROOM NO.	OUT/ INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
<i>HP- 15</i>									
<i>A-101</i>	<i>1</i>	<i>CD</i>			<i>165</i>				<i>170</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>165</i>
<i>↓</i>	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>175</i>
<i>HP- 15</i>									
<i>A-101</i> <i>LOISBY</i>	<i>1</i>	<i>CD</i>			<i>165</i>				<i>170</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>170</i>
<i>↓</i>	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>170</i>
<i>HP- 9</i>									
<i>A-100</i>	<i>1</i>				<i>300</i>				<i>330</i>
<i>HP- 24</i>									
<i>A-110</i>	<i>1</i>				<i>400</i>				<i>435</i>
<i>↓</i>	<i>2</i>				<i>400</i>				<i>440</i>
<i>HP- 24</i>									
<i>A-112</i>	<i>1</i>				<i>100</i>				
<i>A-111</i>	<i>2</i>				<i>135</i>				
<i>A-117</i>	<i>3</i>				<i>250</i>				
<i>A-113</i>	<i>4</i>				<i>315</i>				

NOTES:

OUTLET & INLET TEST SHEET

DATE: 9/30/00
SHEET NO: A

PROJECT: MARLTON E.S.
~~Acme #1776~~

SYSTEM:

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
HP-12	—	—							
A-109	1	CD			175				185
A-108	2	1			225				240
HP-09									
A-107	1	CD			150				160
↓	2	↓			150				165
HP-07	—	—							
A-106	1	CD			230				250
HP-24	—	—							
A-142	1	CD			85				90
A-143	2	↓			275				280
↓	3	↓			↓				265
A-144	4	↓			165				175
HP-30	—	—							
A-132	1	CD			250				265
↓	2	↓			↓				270
↓	3	↓			↓				270
↓	4	↓			↓				255

NOTES:

A

OUTLET & INLET TEST SHEET

DATE: ~~4-100~~ 9/30/00
SHEET NO:

PROJECT: ~~Acme # 1476~~ MARLTON E.S.

SYSTEM: Heat Pumps

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
HP-30									
A-132	1	CD			275				285
↓	2	↓			↓				285
A-134	3	↓			↓				285
A-133	4	↓			175				185
HP-36									
A-132	1	CD			400				425
↓	2	↓			↓				400
↓	3	↓			↓				430
HP-07									
A-105	1	CD			230				250
HP-12									
A-104	1	CD			200				225
↓	2	↓			↓				215

NOTES:

A

OUTLET & INLET TEST SHEET

DATE: 9/30/00
SHEET NO: 4/00

PROJECT: MARLTON E.S.
~~Aemo # 1776~~

SYSTEM: HEAT PUMPS

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
HP-	30								
A-131	1	CD			250				270
	2								265
	3								265
	4								265
HP-30									
A-131	1	CD			250				265
A-131	2								260
A-131	3								265
A-129	4				60				65
A-130	5				80				85
B-106	6				110				120
HP-48									
A-128	1	CD			400				425
	2								425
	3								430
	4								430

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/80~~
SHEET NO:

PROJECT: *MARLTON E.S.*

SYSTEM: *HEAT PUMPS*

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		K FACTOR	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
<i>HP-09</i>									
<i>A-114</i>	<i>1</i>	<i>CD</i>			<i>300</i>				<i>330</i>
<i>HP-24</i>									
<i>A-112</i>	<i>1</i>	<i>CD</i>			<i>100</i>				<i>110</i>
<i>A-111</i>	<i>2</i>	<i> </i>			<i>135</i>				<i>140</i>
<i>A-117</i>	<i>3</i>	<i> </i>			<i>250</i>				<i>275</i>
<i>A-113</i>	<i>4</i>	<i> </i>			<i>315</i>				<i>335</i>
<i>HP-07</i>									
<i>A-115</i>	<i>1</i>				<i>230</i>				<i>250</i>
<i>HP-15</i>									
<i>A-116</i>	<i>1</i>	<i>CD</i>			<i>500</i>				<i>530</i>
<i>HP-7</i>									
<i>A-102</i>	<i>1</i>	<i>CD</i>			<i>230</i>				<i>250</i>

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/00~~
SHEET NO:

PROJECT: MARLTON E.S.

SYSTEM: HEAT PUMPS

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		K FACTOR	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
HP-36 —	36	—							
A-118	1	CD			300				320
↓	2				↓				310
↓	3				↓				300
↓	4				↓				325
HP-36 —	36	—							
A-137	1	CD			600				600
↓	2				↓				590
HP-36 —	36	—							
A-137	1	CD			600				600
↓	2				↓				600
HP-12 —	12	—							
A-140	1	CD			105				105
↓	2				105				110
A-139	3				90				100
A-138	4				100				100

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/00~~
SHEET NO:

PROJECT: MARLTON E.S.

SYSTEM: *Ken Thomas*

[illegible]

NOTES :

B
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AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *MARLTON E. S.*

SYSTEM: *Heat Pumps*

FAN NUMBER	<i>HP-30</i> *	<i>HP-30</i>
LOCATION	<i>B-135</i>	<i>B-133</i>
AREA SERVED	<i>B-135</i>	<i>B-133</i>
MANUFACTURER	<i>MCQUAY</i>	<i>MCQUAY</i>
MODEL NO.	<i>CCH-030C</i>	<i>CCH-030C</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1000</i>	<i>1070</i>	—		<i>1000</i>	<i>1055</i>	
RETURN AIR C.F.M.		<i>1000</i>	<i>1070</i>			<i>1000</i>	<i>1055</i>	
OUTDOOR AIR C.F.M.		—	—			—	—	
EXTERNAL <i>TOTAL</i> STATIC PRESS W.G.		—	<i>0.62</i>			—	<i>0.60</i>	
APPROXIMATE SUCTION PRESS. W.G.		—	<i>-0.51</i>			—	<i>-0.50</i>	
APPROXIMATE DISCH. PRESS W.G.		—	<i>+0.11</i>			—	<i>+0.10</i>	
FAN R.P.M.		—	—	①		—	—	①

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.33</i>				<i>0.33</i>		
VOLTAGE		<i>265</i>	<i>277</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>2.1</i>	<i>1.35</i>			<i>2.1</i>	<i>1.40</i>	

NOTES: ① *DIRECT DRIVE*

B₂

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *Marlton E.S.*

SYSTEM: *Heat Pumps*

FAN NUMBER	<i>HP-30</i>	<i>HP-30</i>
LOCATION	<i>B-128</i>	<i>B-130</i>
AREA SERVED	<i>B-128</i>	<i>B-130</i>
MANUFACTURER	<i>McQuay</i>	<i>McQuay</i>
MODEL NO.	<i>QCH-030C</i>	<i>QCH-030C</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1000</i>	<i>1065</i>			<i>1500</i>	<i>1070</i>	
RETURN AIR C.F.M.		<i>1000</i>	<i>1065</i>			<i>1000</i>	<i>1070</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>		
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.62</i>			<i>—</i>	<i>0.62</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.52</i>			<i>—</i>	<i>-0.50</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>+0.10</i>			<i>—</i>	<i>+0.12</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>	<i>①</i>		<i>—</i>	<i>—</i>	<i>①</i>

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.33</i>				<i>0.33</i>		
VOLTAGE		<i>265</i>	<i>277</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>2.1</i>	<i>1.75</i>			<i>2.1</i>	<i>1.35</i>	

NOTES: *① - Direct Drive*

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *MARLTON E.S.*

SYSTEM: *HEAT PUMPS*

FAN NUMBER	<i>HP-30</i>	<i>HP-30</i>
LOCATION	<i>B-127</i>	<i>B-125</i>
AREA SERVED	<i>B-127</i>	<i>B-125</i>
MANUFACTURER	<i>McQUAY</i>	<i>McQUAY</i>
MODEL NO.	<i>CAH-030C</i>	<i>CAH-030C</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1000</i>	<i>1030</i>			<i>1000</i>		
RETURN AIR C.F.M.		<i>1000</i>	<i>1030</i>			<i>1000</i>		
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.43</i>			<i>—</i>		
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.38</i>			<i>—</i>		
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>+0.05</i>			<i>—</i>		
FAN R.P.M.		<i>—</i>	<i>—</i>	<i>①</i>		<i>—</i>	<i>—</i>	<i>①</i>

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.33</i>				<i>0.33</i>		
VOLTAGE		<i>265</i>	<i>277</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>2.1</i>	<i>1.30</i>			<i>2.1</i>	<i>1.35</i>	

NOTES: *D-DIRECT DRIVE*

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AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *MARTIN E.S.*

SYSTEM: *Heat Pumps*

FAN NUMBER	<i>HP-30</i>	
LOCATION	<i>E-B-109</i>	
AREA SERVED	<i>B-109</i>	
MANUFACTURER	<i>MCQUAY</i>	
MODEL NO.	<i>CCH-030C</i>	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1000</i>	<i>1070</i>					
RETURN AIR C.F.M.		<i>1000</i>	<i>1070</i>					
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>					
EXTERNAL STATIC PRESS W.G.		<i>/</i>	<i>0.65</i>					
APPROXIMATE SUCTION PRESS. W.G.		<i>/</i>	<i>-0.53</i>					
APPROXIMATE DISCH. PRESS W.G.		<i>/</i>	<i>+0.12</i>					
FAN R.P.M.		<i>—</i>	<i>—</i>	<i>①</i>				

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.33</i>						
VOLTAGE		<i>265</i>	<i>277</i>					
PHASE		<i>1</i>	<i>1</i>					
AMPERAGE		<i>2.1</i>	<i>1.40</i>					

NOTES: *① DIRECT DRIVE*

B5

AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~5/00~~

SHEET No:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM: S/A

FAN NUMBER	HP-30	HP-30
LOCATION	B-107	B108
AREA SERVED	✓	✓
MANUFACTURER	Mc QUAY →	
MODEL NO.	CC H030C →	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		1000	1065			1000	1035	
RETURN AIR C.F.M.		1000	1065			1000	1035	
OUTDOOR AIR C.F.M.		-	-			-	-	
EXTERNAL STATIC PRESS W.G.		-	.61			-	.60	
APPROXIMATE SUCTION PRESS. W.G.		-	.51			-	.48	
APPROXIMATE DISCH. PRESS W.G.		-	.10			-	.12	
FAN R.P.M.		-	D.D.			-	D.D.	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		.33	.33			.33	.33	
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		2.1	1.6			2.1	1.5	

NOTES:

B
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AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~7/88~~

SHEET No:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM: SHA

FAN NUMBER	HP 30	HP 30
LOCATION	B-109	B-110
AREA SERVED	↓	↓
MANUFACTURER	Mc Quay →	
MODEL NO.	CC H030C →	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		1000	1075			1000	1085	
RETURN AIR C.F.M.		1000	1075			1000	1085	
OUTDOOR AIR C.F.M.		-	-			-	-	
EXTERNAL STATIC PRESS W.G.		-	.55			-	.57	
APPROXIMATE SUCTION PRESS. W.G.		-	.46			-	.48	
APPROXIMATE DISCH. PRESS W.G.		-	.09			-	.09	
FAN R.P.M.		-	D.O.			-	D.O.	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		.33	.33			.33	.33	
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		2.1	1.6			2.1	1.4	

NOTES :

B
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AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~7/00~~

SHEET No:

PROJECT: MARLTON Elem. School

SYSTEM: S/A

FAN NUMBER	<u>HR-15</u>	<u>HP-15</u>
LOCATION	<u>B-112</u>	<u>B-115</u>
AREA SERVED	<u>↓</u>	<u>↓</u>
MANUFACTURER	<u>Mc QUAY</u>	<u>→</u>
MODEL NO.	<u>CCHO15C</u>	<u>→</u>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<u>500</u>	<u>540</u>			<u>500</u>	<u>545</u>	
RETURN AIR C.F.M.		<u>500</u>	<u>540</u>			<u>500</u>	<u>545</u>	
OUTDOOR AIR C.F.M.		<u>-</u>	<u>-</u>			<u>-</u>	<u>-</u>	
EXTERNAL STATIC PRESS W.G.		<u>-</u>	<u>.42</u>			<u>-</u>	<u>.42</u>	
APPROXIMATE SUCTION PRESS. W.G.		<u>-</u>	<u>.30</u>			<u>-</u>	<u>.33</u>	
APPROXIMATE DISCH. PRESS W.G.		<u>-</u>	<u>.12</u>			<u>-</u>	<u>.09</u>	
FAN R.P.M.		<u>1075</u>	<u>1075</u>			<u>-</u>	<u>1075</u>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<u>1/8</u>	<u>1/8</u>			<u>1/8</u>	<u>1/8</u>	
VOLTAGE		<u>265</u>	<u>271</u>			<u>265</u>	<u>277</u>	
PHASE		<u>1</u>	<u>1</u>			<u>1</u>	<u>1</u>	
AMPERAGE		<u>.8</u>	<u>.6</u>			<u>.8</u>	<u>.5</u>	

NOTES:

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AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~7/00~~

SHEET No:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM: S/A

FAN NUMBER	HP-19	HP-30
LOCATION	B-114	B-116
AREA SERVED	B111, 113, 114	↓
MANUFACTURER	McQuay →	
MODEL NO.	CEH019C	CEH030C

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		630	685			1000	1065	
RETURN AIR C.F.M.		630	685			1000	1065	
OUTDOOR AIR C.F.M.		-	-			-	-	
EXTERNAL STATIC PRESS W.G.		-	.47			-	.62	
APPROXIMATE SUCTION PRESS. W.G.		.29	.29			-	.51	
APPROXIMATE DISCH. PRESS W.G.		.18	.18			-	.11	
FAN R.P.M.		1075	1075			-	D.O.	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		1/8	1/8			.33	.33	
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		.8	.6			2.1	1.6	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~5/7/00~~

SHEET No:

PROJECT: MARLTON ELEM. School

SYSTEM: S/A

FAN NUMBER	HP-15	HP-15
LOCATION	B-118	B-119
AREA SERVED	↓	↓
MANUFACTURER	Mc QUAY →	
MODEL NO.	CC H015 C →	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		500	505			500	520	
RETURN AIR C.F.M.		500	505			↓	520	
OUTDOOR AIR C.F.M.		-	-			-	-	
EXTERNAL STATIC PRESS W.G.		-	.43			-	.40	
APPROXIMATE SUCTION PRESS. W.G.		-	.32			-	.28	
APPROXIMATE DISCH. PRESS W.G.		-	.11			-	.12	
FAN R.P.M.		1075	1075			1075	1075	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		1/8	1/8			1/8	1/8	
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		.8	.6			.8	.7	

NOTES:

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AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~7/00~~

SHEET No:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM: S/A

FAN NUMBER	HP 15	HP 15
LOCATION	B-120	B-121
AREA SERVED	✓	✓
MANUFACTURER	Mc QUAY	→
MODEL NO.	CEH-015C	→

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		500	515			500	520	
RETURN AIR C.F.M.		500	515			500	520	
OUTDOOR AIR C.F.M.		-	-			-	-	
EXTERNAL STATIC PRESS W.G.		-	.42			-	0.44	
APPROXIMATE SUCTION PRESS. W.G.		-	.33			-	.34	
APPROXIMATE DISCH. PRESS W.G.		-	.09			-	+0.10	
FAN R.P.M.		1:	1:			-	-	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		0.12				0.12		
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		0.8	0.6			0.80	0.60	

NOTES:

AL has to be
cut

B
11

AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~7/00~~

SHEET No:

PROJECT: MARLTON Elem School

SYSTEM: S/A

FAN NUMBER	HP 30	HP-07
LOCATION	B-122	B-102 MIDDLE
AREA SERVED	✓	↓
MANUFACTURER	Mc QUAY	→
MODEL NO.	CCH 0 30 C	CC14-007C

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		1000	1080			230	250	
RETURN AIR C.F.M.		1000	1080			230	250	
OUTDOOR AIR C.F.M.		-	-			✓	✓	
EXTERNAL STATIC PRESS W.G.		-	.55			✓	0.51	
APPROXIMATE SUCTION PRESS. W.G.		-	-.43			✓	-0.41	
APPROXIMATE DISCH. PRESS W.G.		-	.12			✓	+0.10	
FAN R.P.M.		-	D.O.			✓	✓	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		.33	.33			0.05		
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		2.1	1.7			0.38	0.21	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *Melton E.S.*

SYSTEM: *Heat Pumps*

FAN NUMBER	<i>HP-36</i>	<i>HP-07</i>
LOCATION	<i>3-221</i>	<i>B-202 MID.</i>
AREA SERVED	<i>↓</i>	<i>↓</i>
MANUFACTURER	<i>McQuay</i>	<i>—</i>
MODEL NO.	<i>CEH 036 L</i>	<i>CEH 07C</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1200</i>	<i>1185</i>			<i>230</i>	<i>250</i>	
RETURN AIR C.F.M.		<i>1200</i>	<i>1185</i>			<i>230</i>	<i>250</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.99</i>			<i>—</i>	<i>0.54</i>	
APPROXIMATE SUCT. PRESS. W.G.		<i>—</i>	<i>0.75</i>			<i>—</i>	<i>0.43</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>0.24</i>			<i>—</i>	<i>0.11</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.50</i>				<i>0.05</i>		
VOLTAGE		<i>460</i>	<i>483</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>1.7</i>	<i>1.2</i>			<i>0.38</i>	<i>0.27</i>	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *Walton ES*

SYSTEM: *Heat Pump*

FAN NUMBER	<i>HP-07</i>	<i>HP-07</i>
LOCATION	<i>MID B-202</i>	<i>B-202 CORNER</i>
AREA SERVED	<i>↓</i>	<i>↓</i>
MANUFACTURER	<i>McQuay</i>	<i>→</i>
MODEL NO.	<i>CC4-07C</i>	<i>→</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>230</i>	<i>245</i>			<i>230</i>	<i>250</i>	
RETURN AIR C.F.M.		<i>230</i>	<i>245</i>			<i>230</i>	<i>250</i>	
OUTDOOR AIR C.F.M.		<i>✓</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.57</i>			<i>—</i>	<i>0.57</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.47</i>			<i>—</i>	<i>0.48</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>-0.10</i>			<i>—</i>	<i>-0.11</i>	
FAN R.P.M.		<i>✓</i>	<i>—</i>			<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.05</i>				<i>0.05</i>		
VOLTAGE		<i>265</i>	<i>277</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>0.38</i>	<i>0.26</i>			<i>0.38</i>	<i>0.27</i>	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: MARLTON E.S.

SYSTEM: Heat Pump

FAN NUMBER	<u>HP 19</u>	<u>HP-19</u>
LOCATION	<u>B-219</u>	<u>B-218</u>
AREA SERVED	<u>L</u>	<u>L</u>
MANUFACTURER	<u>MCGRAW</u>	
MODEL NO.	<u>CEH 017C</u>	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<u>630</u>	<u>670</u>			<u>630</u>	<u>655</u>	
RETURN AIR C.F.M.		<u>630</u>	<u>670</u>			<u>630</u>	<u>655</u>	
OUTDOOR AIR C.F.M.		<u>—</u>	<u>—</u>			<u>—</u>	<u>—</u>	
EXTERNAL STATIC PRESS W.G.		<u>—</u>	<u>0.45</u>			<u>—</u>	<u>0.46</u>	
APPROXIMATE SUCTION PRESS. W.G.		<u>—</u>	<u>-0.30</u>			<u>—</u>	<u>-0.30</u>	
APPROXIMATE DISCH. PRESS W.G.		<u>—</u>	<u>+0.15</u>			<u>—</u>	<u>0.16</u>	
FAN R.P.M.		<u>—</u>	<u>—</u>			<u>—</u>	<u>—</u>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<u>0.12</u>				<u>0.12</u>		
VOLTAGE		<u>265</u>	<u>277</u>			<u>265</u>	<u>277</u>	
PHASE		<u>1</u>	<u>1</u>			<u>1</u>	<u>1</u>	
AMPERAGE		<u>0.80</u>	<u>0.70</u>			<u>0.80</u>	<u>0.60</u>	

NOTES:

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9

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: HARTON EX.

SYSTEM: HEATING

FAN NUMBER	<u>HP-19</u>	<u>HP-19</u>
LOCATION	<u>B-217</u>	<u>B-216</u>
AREA SERVED	<u>↓</u>	<u>↓</u>
MANUFACTURER	<u>McQUAY</u> →	
MODEL NO.	<u>CC# 019C</u> →	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<u>630</u>	<u>650</u>			<u>630</u>	<u>650</u>	
RETURN AIR C.F.M.		<u>630</u>	<u>650</u>			<u>630</u>	<u>650</u>	
OUTDOOR AIR C.F.M.		<u>-</u>	<u>-</u>			<u>-</u>	<u>-</u>	
EXTERNAL STATIC PRESS W.G.			<u>0.47</u>				<u>0.48</u>	
APPROXIMATE SUCTION PRESS. W.G.		<u>✓</u>	<u>-0.31</u>			<u>✓</u>	<u>-0.33</u>	
APPROXIMATE DISCH. PRESS W.G.		<u>✓</u>	<u>+0.16</u>			<u>✓</u>	<u>+0.15</u>	
FAN R.P.M.		<u>✓</u>	<u>✓</u>			<u>✓</u>	<u>✓</u>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<u>0.12</u>				<u>0.12</u>		
VOLTAGE		<u>265</u>	<u>277</u>			<u>265</u>	<u>277</u>	
PHASE		<u>1</u>	<u>1</u>			<u>1</u>	<u>1</u>	
AMPERAGE		<u>0.80</u>	<u>0.6</u>			<u>0.80</u>	<u>0.6</u>	

NOTES:

OUTLET & INLET TEST SHEET

DATE: 7/00

SHEET NO:

PROJECT: MARLTON E.S.

SYSTEM: Heat Pumps

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		K FACTOR	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
HP-09									
B-204	1	CD			150				165
	2								165
HP-07									
ELECT.	1	CD			230				250
HP-15									
B-227	1	CD			225				240
	2				275				295
HP-07									
B-202 END	1	CD			230				250
HP-07									
B-202 MID	1				230				245
HP-07									
B-202 MID	1				230				250
HP-07									
B-202 CORNER	1				230				250

NOTES:

OUTLET & INLET TEST SHEET

DATE: 7/00
SHEET NO:

PROJECT: *MARLTON E.S.*

SYSTEM: *Heat Pumps*

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		K FACTOR	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
<i>HP-36</i>									
<i>B-226</i>	<i>1</i>	<i>CD</i>			<i>300</i>				<i>280</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>285</i>
<i>↓</i>	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>300</i>
<i>↓</i>	<i>4</i>	<i>↓</i>			<i>↓</i>				<i>310</i>
<i>HP-36</i>									
<i>B-224</i>	<i>1</i>	<i>CD</i>			<i>300</i>				<i>305</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>300</i>
<i>↓</i>	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>310</i>
<i>↓</i>	<i>4</i>	<i>↓</i>			<i>↓</i>				<i>285</i>
<i>HP-36</i>									
<i>B-222</i>	<i>1</i>	<i>CD</i>			<i>300</i>				<i>300</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>290</i>
<i>↓</i>	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>295</i>
<i>↓</i>	<i>4</i>	<i>↓</i>			<i>↓</i>				<i>290</i>

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/00~~
SHEET NO:

PROJECT: MARLTON RES

SYSTEM: Heat Pumps

ROOM NO.	OUT/ INLET NO.	CODE	SIZE	DESIGN		K FACTOR	ACTUAL			
				FPM	CFM		1ST PASS	FPM	CFM	
HP-36 —										
B-220	1	CD			300					310
	2									310
	3									290
	4									295
HP-36 —										
B-225	1	CD			300					320
	2									300
	3									290
	4									300
HP-36 —										
B-223	1	CD			300					310
	2									310
	3									300
	4									300
HP-36 —										
B-221	1	CD			300					300
	2									285
	3									295
	4									305

NOTES:

OUTLET & INLET TEST SHEET

DATE: 7/00
SHEET NO:

PROJECT: *MARLTON E.S.*

SYSTEM: *Heat Pumps*

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		K FACTOR	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
<i>HP-07</i>									
<i>MID. B-202</i>	<i>1</i>	<i>CD</i>			<i>230</i>				<i>250</i>
<i>HP-07</i>									
<i>MID B-202</i>	<i>1</i>	<i>CD</i>			<i>230</i>				<i>245</i>
<i>HP-19</i>									
<i>B-219</i>	<i>1</i>	<i>CD</i>			<i>315</i>				<i>335</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>325</i>
<i>HP-19</i>									
<i>B-218</i>	<i>1</i>	<i>CD</i>			<i>315</i>				<i>330</i>
<i>↓</i>	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>325</i>
<i>HP-19</i>									
<i>B-217</i>	<i>1</i>	<i>CD</i>			<i>315</i>				<i>330</i>
	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>320</i>
<i>HP-19</i>									
<i>B-216</i>	<i>1</i>	<i>CD</i>			<i>315</i>				<i>325</i>
	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>325</i>

NOTES:

C

AIR MOVING EQUIPMENT - TEST SHEET

DATE: 9/27/00
SHEET No:

PROJECT: MARLTON E.S.

SYSTEM: HEAT PUMPS

FAN NUMBER	HP-48	HP-24
LOCATION	C-109	C-106
AREA SERVED	C-106	C-106
MANUFACTURER	MCCQUAY	MCCQUAY
MODEL NO.	CCH-048C	CCH-024C

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		1600	1685			800	835	
RETURN AIR C.F.M.		1600	1685			800	835	
OUTDOOR AIR C.F.M.		—	—			—	—	
EXTERNAL TOTAL STATIC PRESS W.G.		—	0.72			—	0.54	
APPROXIMATE SUCTION PRESS. W.G.		—	-0.56			—	-0.41	
APPROXIMATE DISCH. PRESS W.G.		—	+0.16			—	-0.13	
FAN R.P.M.		—	—	①		—	—	①

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		0.75				0.33		
VOLTAGE		460	483			265	277	
PHASE		1	1			1	1	
AMPERAGE		2.8	1.95			2.1	1.20	

NOTES: 1. 1.95 AMPERAGE

c

SHEET NO :

SHEET NO: Block-C
SYSTEM: HP Supply

1-2

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE: 10/2/00
SHEET No:

PROJECT: MARLTON E.S.

SYSTEM: HRV-4

FAN NO.	SUPPLY	EXHAUST
LOCATION	ATTIC	ATTIC
AREA SERVED	1ST FL.	1ST FL.
MANUFACTURER	SEMCO	SEMCO
MODEL NO.	FV-3000	FV-3000
SERIAL NO.		

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL CFM	2950	2990		2377	2240	
RETURN AIR CFM	—	—		—	—	
OUTDOOR AIR CFM	—	—		—	—	
TOTAL STAT. PRESS	—	2.30		—	1.35	
SUCTION PRESS.	—	-1.68		—	-1.15	
DISCHARGE PRESS.	—	-0.62		—	+0.20	
FAN RPM	—	1385		—	1330	
SHEAVE MFR./MODEL	BRWING.	AK 49		BRWING	AK-41	
SHV. BUSHING/BORE	—	3/4		—	3/4	
NO. BELTS/SIZE	1	POWER TWIST 47"		1	POWER TWIST 40"	

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	2.0			1.5		
VOLTAGE	460	480		460	480	
PHASE	3	3		3	3	
AMPERAGE	3.1	2.8/2.7/2.8		2.8	2.6/2.5/2.6	
MTR. MFR./RPM/SF	MARATHON/1725/	1.15		MARATHON/1725/	1.15	
FRAME/SHV. BORE	56H	5/8		56H	5/8	
SHEAVE MFR./MODEL	BRWING	AK-41		BRWING	AK-30	
SHV. ADJ/SHAFT CL	FIXED	16"		FIXED	14 1/2"	

NOTES:

OUTLET & INLET TEST SHEET

DATE :

SHEET NO:

PROJECT: *Melton E.S.*

SYSTEM: HVP- 4 Supply O.A.

[illegible]

NOTES :

TRAVERSE TEST SHEET

DATE:
SHEET NO:

PROJECT: *MARLTON E.S.*
FAN NO: *HRV-4-SUPPLY*

SYSTEM: *HRV-4*

DESIGN CFM: *2950*

ACTUAL CFM: *3006*

DUCT SIZE: *16 x 24*

DUCT S.P.: *-0.96* IN. / W.G.

DUCT AREA: *2.67*

SQ.FT.

ACTUAL VELOCITY: *1125* F.P.M.

DESIGN VELOCITY: *1106*

F.P.M.

TRAVERSE LOCATION: *ATTIC*

DAMPER SETTINGS O.A: % R.A: % E.A: %

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>1135</i>	<i>1138</i>	<i>1148</i>	<i>1109</i>									
2	<i>1175</i>	<i>1054</i>	<i>1035</i>	<i>1008</i>									
3	<i>1258</i>	<i>1230</i>	<i>1148</i>	<i>1071</i>									
4													
5													
6													
7													
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9													
10													
11													
12													
13													
14													
15													
T													

REMARKS:

OUTLET & INLET TEST SHEET

DATE :
SHEET NO :

PROJECT: MARLTON E.S.

SYSTEM: *HRV-4 EXHAUST*

[illegible]

NOTES :

TRAVERSE TEST SHEET

DATE:
SHEET NO:

PROJECT: *MARTON E.S.*

SYSTEM: *HRV-4*

FAN NO: *HRV-4 Ex.*

DESIGN CFM: *2377*

ACTUAL CFM: *2269*

DUCT SIZE: *24x14*

DUCT S.P: *+0.20* IN. / W.G.

DUCT AREA: *2.33*

SQ.FT.

ACTUAL VELOCITY: *974* F.P.M.

DESIGN VELOCITY: *1019*

F.P.M.

TRAVERSE LOCATION: *ATTIC*

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>1128</i>	<i>1063</i>	<i>1166</i>	<i>721</i>									
2	<i>1095</i>	<i>1104</i>	<i>681</i>	<i>906</i>									
3	<i>1069</i>	<i>902</i>	<i>1038</i>	<i>813</i>									
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
T													

REMARKS:

AIR MOVING EQUIPMENT - TEST SHEET

DATE: 10/3/00
SHEET NO:

PROJECT: MARLTON E.S.

SYSTEM: HRV-9

FAN NO.	SUPPLY	EXHAUST
LOCATION	ROOF	ROOF
AREA SERVED	1ST FL. - A	1ST FL. - A
MANUFACTURER	SEMCO	SEMCO
MODEL NO.	FV-3000	FV-3000
SERIAL NO.	19343/33193	7

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL CFM	3115	3165		2290	2385	
RETURN AIR CFM	—	—		—	—	
OUTDOOR AIR CFM	—	—		—	—	
TOTAL STAT. PRESS	—	1.97		—	1.10	
SUCTION PRESS.	—	-1.55		—	-0.95	
DISCHARGE PRESS.	—	+0.52		—	+0.15	
FAN RPM	—	1520		—	1370	
SHEAVE MFR./MODEL	BROWN	AK44		BROWN	AK-39	
SHV. BUSHING/BORE	—	3/4		—	3/4	
NO. BELTS/SIZE	1	PT-47"		1	PT-40	

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	2100			1.50		
VOLTAGE	460	483		460	483	
PHASE	3	3		3	3	
AMPERAGE	3.1	3.1/3.2/3.2		2.8	2.9/2.7/2.9	
MTR. MFR./RPM/SF	MARATHON	1725/1.15		Leeson	1725/1.15	
FRAME/SHV. BORE	56H	518		56H	518	
SHEAVE MFR./MODEL	BROWN	AK41		BROWN	AK-30	
SHV. ADJ/SHAFT CL	FIXED	16 1/2		FIXED	14"	

NOTES: PT = PARTIAL

OUTLET & INLET TEST SHEET

DATE: 4/00

SHEET NO:

PROJECT: ~~Acme #1776~~ **MARLTON E.S.**

SYSTEM: **HRV-9**
D.A. SUPPLY

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
CORR. A-108	1		5"φ	-	70				75
ART A-131	2		10x6	-	235				240
↓	3		1		230				225
CORR. A-107	4		5"φ	-	55				60
CORR. A-105	5		5"φ	-	35				40
↓	6		5"φ	-	60				65
A-143	7		5"φ	-	60				65
A-132	8		14x8	-	560				555
CORR. A-100	9		6"φ	-	85				35
↓	10		6"φ	-	85				90
VEST. A-100	11		5"φ	-	50				50
CORR. A-104	12		5"φ	-	60				55
CORR. A-102	13		5"φ	-	40				50
NURSE A-123	14		6"φ	-	125				120
FACULTY A-118	15		12x8	-	390				400
MAIN A-110	16		6"φ	-	120				125
PRINC. A-114	17		4"φ	-	40				45
CORR. A-111	18		10x6	-	190				190
A-115	19		5"φ	-	40				40
A-116	20		10x4	-	120				115
COMPUTER A-128	21		14x8	-	465				475

NOTES:

3165

TRAVERSE TEST SHEET

DATE:

SHEET NO:

PROJECT: *MARLTON E.S.*

SYSTEM: *Supply O.A.*

FAN NO: *HRV-9*

DESIGN CFM: *1905*

ACTUAL CFM: *1964*

DUCT SIZE: *18x16*

DUCT S.P: *+0.37* IN. / W.G.

DUCT AREA: *2.00*

SQ.FT.

ACTUAL VELOCITY: *982* F.P.M.

DESIGN VELOCITY: *953*

F.P.M.

TRAVERSE LOCATION: *SUPPLY - NORTH BRANCH.*

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>1475</i>	<i>1188</i>	<i>1388</i>										
2	<i>567</i>	<i>577</i>	<i>1234</i>										
3	<i>518</i>	<i>679</i>	<i>1212</i>										
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
T													

REMARKS:

TRAVERSE TEST SHEET

DATE:
SHEET NO:

PROJECT: *MARLTON E.S.*

SYSTEM: *Supply O.A.*

FAN NO: *HRV-9*

DESIGN CFM: *1210*

ACTUAL CFM: *1271*

DUCT SIZE: *16 x 12*

DUCT S.P: *+0.49* IN. / W.G.

DUCT AREA: *1.33*

SQ.FT.

ACTUAL VELOCITY: *956* F.P.M.

DESIGN VELOCITY: *910*

F.P.M.

TRAVERSE LOCATION: *SUPPLY-SOUTH BRANCH*

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>835</i>	<i>917</i>	<i>890</i>										
2	<i>1007</i>	<i>1074</i>	<i>970</i>										
3	<i>1060</i>	<i>1004</i>	<i>852</i>										
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
T													

REMARKS:

OUTLET & INLET TEST SHEET

DATE: 4/00

SHEET NO.:

PROJECT: ~~Acme # 1776~~ MARLTON E.S.

SYSTEM: HRV-9
EXHAUST

[illegible]

NOTES :

2290

755

CIRCULATING WATER PUMP

DATE:
SHEET NO:PROJECT: MARLTON School

SYSTEM:

PUMP NO.	LWP-1	LWP-2
LOCATION	1st Floor Mech. rm.	Same
SERVING	HEAT PUMPS	
MANUFACTURER	B+G 1510	
MODEL NO.	4BC	4BC
SERIAL NO.	219 273 7	219 273 6

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
FINAL GPM	543	550		543	550	
FINAL TDH	89	88		80'	8'	
DIFF. PSI	38.5	38		38.5	38	
SUCT. PSI	—	41		—	41	
DISCH. PSI	—	79		—	79	
PUMP RPM	1770	1770		1770	1770	
VLV SHUT TDH	90.0	97.0		90.0	97'	
IMPELLER DIA	9.5	9 1/2		9.5	9 1/2	
VLV OPEN TDH	—	80		—	80	
VLV OPEN GPM	—	700		—	700	
PUMP OFF PSI	—	47		—	47	
NPSH / SEAL	8.0	1 MECH		8.0	1 MECH	

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	15	15		15	15	
VOLTAGE	460	476/476/476		460	476/476/476	
PHASE	3	3		3	3	
AMPERAGE	19.0	16.5/15.5/16.1		19.0	16.2/15.9/16.1	
MTR MFR / SF	U.S. Elec. /	1.15		U.S. /	1.15	
RPM / FRAME	1770 /	254T		1770 /	254T	

NOTES: ① 3DS-65 B+G set @ 100%

② USED Pump curve

CIRCULATING WATER PUMP

DATE:
SHEET NO:PROJECT: Marlton School

SYSTEM:

PUMP NO.	CWP-1	CWP-2
LOCATION	1 st Flr. Mech rm	1 st Flr mech rm
SERVING	CONDENSER WATER	CONDENSER WATER
MANUFACTURER	B+G 1510	B+G 1510
MODEL NO.	4BL	4BL
SERIAL NO.	219 3263	219 32

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
FINAL GPM	520	535		520	535	
FINAL TDH	60	58		55	58	
DIFF. PSI	25.9	25.36		25.9	25.36	
SUCT. PSI	—	-0.36		—	-0.36	
DISCH. PSI	—	+25.00		—	+25.	
PUMP RPM	1760	1760		1760	1760	
VLV SHUT TDH	68.0	68.0		68.0	68.0	
IMPELLER DIA	8.125	8.125		8.125	8.125	
VLV OPEN TDH	—	55.0		—	55.0	
VLV OPEN GPM	—	700		—	700	
PUMP OFF PSI	—	2		—	2	
NPSH / SEAL	8	1 MECH		8	1 mech	

meter

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	10	10		10	10	
VOLTAGE	460	476/476/476		460	476/476/476	
PHASE	3	3		3	3	
AMPERAGE	13.2	11.2/11.1/11.2		13.2	11.2/11.3/11.2	
MTR MFR / SF	MARATHON	1 / 1.15		MARATHON	1 / 1.15	
RPM / FRAME	1760	1 / 215T		1760	1 / 215	

NOTES: ① 3DS-6S B+G SET @ 30% w/12' ΔP. = 575 GPM

②

CIRCULATING WATER PUMP

DATE:
SHEET NO:

PROJECT: MARLTON M. School

SYSTEM:

PUMP NO.	HWP-1	HWP-2
LOCATION	1 ST in mech. room	11
SERVING	Heating water	Heating water
MANUFACTURER	B + G 1510	11
MODEL NO.	2BC	2BC
SERIAL NO.	2193266	2193267

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
FINAL GPM	140	145		140	145	
FINAL TDH	50'	44'		50'	44'	
DIFF. PSI	22	19		22	19	
SUCT. PSI	—	28		—	28	
DISCH. PSI	—	47		—	47	
PUMP RPM	1765	1765		1765	1765	
VLV SHUT TDH	56'					
IMPELLER DIA	7.5	7.5		7.5	7.5	
VLV OPEN TDH	—	30'		—	30'	
VLV OPEN GPM	—	200		—	200	
PUMP OFF PSI	—	25		—	25	
NPSH / SEAL	4	1 mech		4	1 mech	

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	3	3		3	3	
VOLTAGE	460	476/476/476		460	476/476/476	
PHASE	3	3		3	3	
AMPERAGE	4.2	3.5/3.2/3.5		4.2	3.5/3.4/3.1	
MTR MFR / SF	U.S. ELEC. /	1.15		U.S. ELEC. /	1.15	
RPM / FRAME	1765	182T		1765	182T	

NOTES: ① 3DS-45 B+G set @ 30% w/ Δ.P. 5.83 = 200 GPM
 ② 114' TDH OFF curve ? USED B+G

B
2

AIR MOVING EQUIPMENT - TEST SHEET

DATE: ~~7/00~~

SHEET No:

PROJECT: MARLTON ELEMENTARY SCHOOL

SYSTEM: S/A

FAN NUMBER	HP-12	HP-07
LOCATION	B117	B-102
AREA SERVED	B117	↓
MANUFACTURER	Mc QUAY	→
MODEL NO.	CCHO12C	CCHO07C

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		400	440			230	250	
RETURN AIR C.F.M.		400	440			230	250	
OUTDOOR AIR C.F.M.		✓				✓		
EXTERNAL STATIC PRESS W.G.		✓	.58			✓	0.57	
APPROXIMATE SUCTION PRESS. W.G.		✓	.51			✓	-0.47	
APPROXIMATE DISCH. PRESS W.G.		✓	.07			✓	+0.10	
FAN R.P.M.		✓	✓			✓	✓	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		.12	.12			.05	.05	
VOLTAGE		265	277			265	277	
PHASE		1	1			1	1	
AMPERAGE		.65	.4			0.38	0.23	

NOTES:

B
13

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *MARLTON E.S.*

SYSTEM: *HEATPUMPS*

FAN NUMBER	<i>HP-07</i>	<i>HP-07</i>
LOCATION	<i>B-101 MIDDLE</i>	<i>B-101 END</i>
AREA SERVED	<i>↓</i>	<i>↓</i>
MANUFACTURER	<i>MACQUAY</i> →	
MODEL NO.	<i>CCH-00714</i> →	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>230</i>	<i>250</i>			<i>230</i>	<i>245</i>	
RETURN AIR C.F.M.		<i>230</i>	<i>250</i>			<i>230</i>	<i>245</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.58</i>			<i>—</i>	<i>0.59</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.48</i>			<i>—</i>	<i>-0.49</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>+0.10</i>			<i>—</i>	<i>+0.12</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.05</i>				<i>0.05</i>		
VOLTAGE		<i>265</i>	<i>277</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>0.38</i>	<i>0.26</i>			<i>0.38</i>	<i>0.25</i>	

NOTES:

B

OUTLET & INLET TEST SHEET

DATE: ~~4/00~~

SHEET NO:

PROJECT: *MARLTON E.S.*
~~Acme # 1776~~

Block-B
SYSTEM: *HP-Supply*

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
<i>HP-30</i>									
<i>B-135</i>	<i>1</i>	<i>CD</i>			<i>250</i>				<i>270</i>
	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>270</i>
	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>265</i>
	<i>4</i>	<i>↓</i>			<i>↓</i>				<i>265</i>
<i>HP-30</i>									
<i>B-133</i>	<i>1</i>	<i>CD</i>			<i>250</i>				<i>255</i>
	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>265</i>
	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>265</i>
	<i>4</i>	<i>↓</i>			<i>↓</i>				<i>270</i>
<i>HP-30</i>									
<i>B-128</i>	<i>1</i>	<i>CD</i>			<i>250</i>				<i>265</i>
	<i>2</i>	<i>↓</i>			<i>↓</i>				<i>265</i>
	<i>3</i>	<i>↓</i>			<i>↓</i>				<i>265</i>
	<i>4</i>	<i>↓</i>			<i>↓</i>				<i>270</i>

NOTES:

B

OUTLET & INLET TEST SHEET

DATE: 4/00

SHEET NO:

PROJECT: MARLTON E.S.
~~Acme # 1776~~

SYSTEM: Block - B
HP-Supply

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		FOOT NOTE	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
HP-30									
B-130	1	LD			250				265
	2								265
	3								270
	4								270
HP-30									
B-127	1	LD			250				265
	2								245
	3								260
	4								260
HP-30									
B-109	1	LD			250				260
	2								270
	3								270
	4								270

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/20/00~~

SHEET NO:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM: S/A / AS NOTED

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		H.P. F.P.	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
B-108	1	CD			250	HP-30			270
	2	↓			↓	↓			250
	3	↓			↓	↓			275
	4	↓			↓	↓			240
B-107	1	↓				HP-30			260
↓	2	↓			↓	↓			260
↓	3	↓			↓	↓			270
↓	4	↓			↓	↓			275
B-109	1	↓				HP-30			270
↓	2	↓			↓	↓			275
↓	3	↓			↓	↓			260
↓	4	↓			↓	↓			270
B-110	1	↓				HP-30			270
↓	2	↓			↓	↓			270
↓	3	↓			↓	↓			270
↓	4	↓			↓	↓			275
B-112	1	↓				HP-15			265
↓	2	↓			↓	↓			275

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/80~~
SHEET NO:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM: 3/A

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		H.P. FACTOR	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
B-115	1	CD			250	HP-15			275
↓	2	↓			↓				270
B-102	1	CD			230	HP-07			250
B-116	1	CD			250	HP-30			265
↓	2	↓			↓				275
↓	3	↓			↓				260
↓	4	↓			↓				265
B-114	1	CD			280	HP-19			305
B-113	2	SAG			150	↓			165
B-111	3	CD			200	↓			215
B-118	1	CD			250	HP-15			265
↓	2	↓			↓	↓			240
B-119	1	↓			↓	HP-15			275
↓	2	↓			↓	↓			245
B-120	1	↓			↓	HP-15			270
↓	2	↓			↓	↓			245

NOTES:

OUTLET & INLET TEST SHEET

DATE: ~~7/00~~
SHEET NO:

PROJECT: MARLTON ELEM. SCHOOL

SYSTEM:

ROOM NO.	OUT/INLET NO.	CODE	SIZE	DESIGN		HP FPM	ACTUAL		
				FPM	CFM		1ST PASS	FPM	CFM
B121	1	CD	9.0		250	HP 15			260
↓	2				↓				260
B-122	1	CD	9.0		250	HP-30			275
↓	2	↓			↓				275
↓	3	↓			↓				270
↓	4	↓			↓				265
HP-07									
B-102 MIDDLE	1				230				250
HP-07									
B-101 CORNER	1				230				245
HP-07									
B-101 MIDDLE	1				230				250
HP-07									
B-101 END	1				230				245

NOTES:

B² 1

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: MARLTON E.S.

SYSTEM: HEAT PUMPS

FAN NUMBER	HP-15	HP-07
LOCATION	B-227	B-202
AREA SERVED	↓	B-202 --END--
MANUFACTURER	M ^C QUAY →	
MODEL NO.	CCH-015C	CCH-07C

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		500	535			230	250	
RETURN AIR C.F.M.		500	535			230	250	
OUTDOOR AIR C.F.M.		—	—			—	—	
EXTERNAL STATIC PRESS W.G.		—	0.49			—	0.55	
APPROXIMATE SUCTION PRESS. W.G.		—	-0.35			—	-0.45	
APPROXIMATE DISCH. PRESS W.G.		—	+0.14			—	+0.10	
FAN R.P.M.		✓	✓			—	—	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		0.12				0.05		
VOLTAGE		265	277			245	277	
PHASE		1	1			1	1	
AMPERAGE		0.80	0.61			0.38	0.29	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *Marlton 12.5*

SYSTEM: *Heatpumps*

FAN NUMBER	<i>HP-09</i>	<i>HP-07</i>
LOCATION	<i>B-204</i>	<i>B-2nd. Elect Rm.</i>
AREA SERVED	<i>↓</i>	<i>↓</i>
MANUFACTURER	<i>McQuay</i> →	
MODEL NO.	<i>ACH09C</i>	<i>ACH07C</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>300</i>	<i>330</i>			<i>230</i>	<i>250</i>	
RETURN AIR C.F.M.		<i>300</i>	<i>330</i>			<i>230</i>	<i>250</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.46</i>			<i>—</i>	<i>0.57</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.34</i>			<i>—</i>	<i>-0.46</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>+0.12</i>			<i>—</i>	<i>+0.11</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.12</i>				<i>0.05</i>		
VOLTAGE		<i>265</i>	<i>277</i>			<i>265</i>	<i>277</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>0.65</i>	<i>0.44</i>			<i>0.38</i>	<i>0.29</i>	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: MARLTON E.S.

SYSTEM: HEAT PUMPS

FAN NUMBER	<u>HP-07</u>	<u>HP-07</u>
LOCATION	<u>B-202 MID.</u>	<u>B-202 MID.</u>
AREA SERVED	<u>↓</u>	<u>↓</u>
MANUFACTURER	<u>MC QUAY</u>	<u>→</u>
MODEL NO.	<u>CC4-07C</u>	<u>→</u>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<u>230</u>	<u>245</u>			<u>230</u>	<u>250</u>	
RETURN AIR C.F.M.		<u>230</u>	<u>245</u>			<u>230</u>	<u>250</u>	
OUTDOOR AIR C.F.M.		<u>—</u>	<u>—</u>			<u>—</u>	<u>—</u>	
EXTERNAL STATIC PRESS W.G.		<u>—</u>	<u>0.51</u>			<u>—</u>	<u>0.53</u>	
APPROXIMATE SUCTION PRESS. W.G.		<u>—</u>	<u>+0.41</u>			<u>—</u>	<u>+0.43</u>	
APPROXIMATE DISCH. PRESS W.G.		<u>—</u>	<u>-0.10</u>			<u>—</u>	<u>-0.10</u>	
FAN R.P.M.		<u>—</u>	<u>—</u>			<u>—</u>	<u>—</u>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<u>0.05</u>				<u>0.05</u>		
VOLTAGE		<u>245</u>	<u>277</u>			<u>265</u>	<u>277</u>	
PHASE		<u>1</u>	<u>1</u>			<u>1</u>	<u>1</u>	
AMPERAGE		<u>0.38</u>	<u>0.25</u>			<u>0.38</u>	<u>0.26</u>	

NOTES:

2
B 3

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *Milton E.S.*

SYSTEM: *HPT Pump*

FAN NUMBER	<i>HP-36</i>	<i>HP-36</i>
LOCATION	<i>B-226</i>	<i>B-224</i>
AREA SERVED	<i>↓</i>	<i>B-224</i>
MANUFACTURER	<i>M. Day</i> →	
MODEL NO.	<i>0CH 036</i> →	

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1200</i>	<i>1175</i>			<i>1200</i>	<i>1200</i>	
RETURN AIR C.F.M.		<i>1200</i>	<i>1175</i>			<i>1200</i>	<i>1200</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>1.00</i>			<i>—</i>	<i>0.99</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.75</i>			<i>—</i>	<i>-0.76</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>+0.25</i>			<i>—</i>	<i>+0.23</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>	<i>①</i>		<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.50</i>				<i>0.50</i>		
VOLTAGE		<i>460</i>	<i>483</i>			<i>460</i>	<i>483</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>1.7</i>	<i>1.2</i>			<i>1.7</i>	<i>1.3</i>	

NOTES: *1. Motor OK*

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *Marlton ES.*

SYSTEM: *Heat Pumps*

FAN NUMBER	<i>HP-36</i>	<i>HP-36</i>
LOCATION	<i>B-222</i>	<i>B-220</i>
AREA SERVED	<i>↓</i>	<i>↓</i>
MANUFACTURER	<i>M^cQuay</i>	<i>→</i>
MODEL NO.	<i>CEH-036C</i>	<i>→</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1200</i>	<i>1175</i>			<i>1200</i>	<i>1205</i>	
RETURN AIR C.F.M.		<i>1200</i>	<i>1175</i>			<i>1200</i>	<i>1205</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>1.01</i>			<i>—</i>	<i>1.00</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>0.78</i>			<i>—</i>	<i>0.78</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>-0.23</i>			<i>—</i>	<i>0.22</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.50</i>				<i>0.50</i>		
VOLTAGE		<i>460</i>	<i>483</i>			<i>460</i>	<i>483</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>1.7</i>	<i>1.2</i>			<i>1.7</i>	<i>1.2</i>	

NOTES:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:

SHEET No:

PROJECT: *MARLTON ES.*

SYSTEM: *Heat Pump*

FAN NUMBER	<i>HP-36</i>	<i>HP-36</i>
LOCATION	<i>B-225</i>	<i>B-223</i>
AREA SERVED	<i>↓</i>	<i>↓</i>
MANUFACTURER	<i>McQUAY</i>	<i>→</i>
MODEL NO.	<i>CDH-036C</i>	<i>→</i>

	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL C.F.M.		<i>1200</i>	<i>1210</i>			<i>1200</i>	<i>1220</i>	
RETURN AIR C.F.M.		<i>1200</i>	<i>1210</i>			<i>1200</i>	<i>1220</i>	
OUTDOOR AIR C.F.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	
EXTERNAL STATIC PRESS W.G.		<i>—</i>	<i>0.99</i>			<i>—</i>	<i>0.99</i>	
APPROXIMATE SUCTION PRESS. W.G.		<i>—</i>	<i>-0.76</i>			<i>—</i>	<i>-0.77</i>	
APPROXIMATE DISCH. PRESS W.G.		<i>—</i>	<i>+0.23</i>			<i>—</i>	<i>-0.22</i>	
FAN R.P.M.		<i>—</i>	<i>—</i>			<i>—</i>	<i>—</i>	

MOTOR	FOOT NOTE	RATED	ACTUAL	FOOT NOTE	FOOT NOTE	RATED	ACTUAL	FOOT NOTE
HORSEPOWER		<i>0.50</i>				<i>0.50</i>		
VOLTAGE		<i>460</i>	<i>483</i>			<i>460</i>	<i>483</i>	
PHASE		<i>1</i>	<i>1</i>			<i>1</i>	<i>1</i>	
AMPERAGE		<i>1.7</i>	<i>1.3</i>			<i>1.7</i>	<i>1.3</i>	

NOTES:

OCT 11 2000

AIR MOVING EQUIPMENT - TEST SHEET

DATE: 10/2/00
SHEET No:

PROJECT: MARLTON E.S.

SYSTEM: HRV-4

FAN NO.	SUPPLY	EXHAUST
LOCATION	ATTIC	ATTIC
AREA SERVED	1ST FL.	1ST FL.
MANUFACTURER	SEMCO	SEMCO
MODEL NO.	FV-3000	FV-3000
SERIAL NO.		

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL CFM	2950	2990		2377	2240	
RETURN AIR CFM	—	—		—	—	
OUTDOOR AIR CFM	—	—		—	—	
TOTAL STAT. PRESS.	—	2.30		—	1.35	
SUCTION PRESS.	—	-1.68		—	-1.15	
DISCHARGE PRESS.	—	-0.62		—	+0.20	
FAN RPM	—	1385		—	1330	
SHEAVE MFR./MODEL	BRWNG.	AK 49		BRWNG	AK-41	
SHV. BUSHING/BORE	—	3/4		—	3/4	
NO. BELTS/SIZE	1	POWER TWIST 47"		1	POWER TWIST 40	

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	2.0			1.5		
VOLTAGE	460	480		460	480	
PHASE	3	3		3	3	
AMPERAGE	3.1	2.8/2.7/2.8		2.8	2.6/2.5/2.6	
MTR. MFR./RPM/SF	MARATHON	1725	1.15	MARATHON	1725	1.15
FRAME/SHV. BORE	56H	518		56H	518	
SHEAVE MFR./MODEL	BRWNG	AK-41		BRWNG	AK-30	
SHV. ADJ/SHAFT CL	FIXED	16"		FIXED	14 1/2"	

NOTES:

OUTLET & INLET TEST SHEET

DATE:
SHEET NO:

SYSTEM: HVR-4 Supply O.A.

PROJECT: MARLTON E.S.

[illegible]

NOTES:

TRAVERSE TEST SHEET

DATE:
SHEET NO:

SYSTEM: **HRV-4**

PROJECT: **MARLTON E.S.**

FAN NO: **HRV-4-SUPPLY**

DESIGN CFM: **2950**

DUCT SIZE: **16 x 24**

DUCT AREA: **2.67**

DESIGN VELOCITY: **1106**

TRAVERSE LOCATION: **ATTIC**

ACTUAL CFM: **3006**

DUCT S.P.: **-0.96** IN. / W.G.

ACTUAL VELOCITY: **1125** F.P.M.

SQ.FT.

F.P.M.

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	1135	1138	1148	1109									
2	1175	1054	1035	1008									
3	1258	1230	1148	1071									
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
T													

MARKS:

OUTLET & INLET TEST SHEET

DATE: .
SHEET NO:

SYSTEM: HRVA 4 EXHAUST

PROJECT: MARLTON E.S.

[illegible]

2377

TRAVERSE TEST SHEET

DATE:
SHEET NO:

SYSTEM: *HRV-4*

PROJECT: *MARTON E.S.*

FAN NO: *HRV-4 Ex.*

DESIGN CFM: *2377*

DUCT SIZE: *24x14*

DUCT AREA: *2.33*

DESIGN VELOCITY: *1019*

TRAVERSE LOCATION: *ATTIC*

ACTUAL CFM: *2269*

DUCT S.P: *+0.20* IN. / W.G.

ACTUAL VELOCITY: *974* F.P.M.

SQ.FT.

F.P.M.

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>1128</i>	<i>1063</i>	<i>1066</i>	<i>726</i>									
2	<i>1095</i>	<i>1104</i>	<i>681</i>	<i>906</i>									
3	<i>1069</i>	<i>902</i>	<i>1038</i>	<i>813</i>									
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													

REMARKS:

AIR MOVING EQUIPMENT - TEST SHEET

DATE:
 SHEET No:

SYSTEM: HRV-5

PROJECT: MARLTON E.S.

FAN NO.	<u>SUPPLY</u>	<u>EXHAUST</u>
LOCATION	<u>ATTIC</u>	<u>ATTIC</u>
AREA SERVED	<u>B</u>	<u>B</u>
MANUFACTURER	<u>Scmco</u>	
MODEL NO.	<u>FV-3000</u>	
SERIAL NO.	<u>19392</u>	

	DESIGN	ACTUAL	FOOT NOTE	DESIGN	ACTUAL	FOOT NOTE
TOTAL CFM	<u>2390</u>	<u>2433</u>		<u>2395</u>	<u>2539</u>	
RETURN AIR CFM						
OUTDOOR AIR CFM					<u>1.23</u>	
TOTAL STAT. PRESS		<u>1.84</u>			<u>-0.93</u>	
SUCTION PRESS.		<u>-1.55</u>			<u>+0.30</u>	
DISCHARGE PRESS.		<u>+0.31</u>			<u>1321</u>	
FAN RPM		<u>1325</u>				
SHEAVE MFR./MODEL	<u>BROWN</u>	<u>AK 49</u>		<u>BROWN</u>	<u>AK-41</u>	
SHV. BUSHING/BORE		<u>3/4</u>			<u>3/4</u>	
NO. BELTS/SIZE	<u>1</u>	<u>PT-47</u>		<u>1</u>	<u>PT 40</u>	

MOTOR	NAME PLATE	ACTUAL	FOOT NOTE	NAME PLATE	ACTUAL	FOOT NOTE
HORSEPOWER	<u>1.5</u>			<u>1.5</u>		
VOLTAGE	<u>460</u>	<u>483</u>		<u>460</u>	<u>483</u>	
PHASE	<u>3</u>	<u>3</u>		<u>3</u>	<u>3</u>	
AMPERAGE	<u>2.8</u>	<u>2.7/2.8/2.8</u>		<u>2.8</u>	<u>2.4/2.4/2.5</u>	
MTR. MFR./RPM/SF	<u>LLSON</u>	<u>1175</u>	<u>1.15</u>	<u>LLSON</u>	<u>1175</u>	<u>1.15</u>
FRAME/SHV. BORE	<u>56H</u>	<u>5/8</u>		<u>56H</u>	<u>5/8</u>	
SHEAVE MFR./MODEL	<u>BROWN</u>	<u>AK-39</u>		<u>BROWN</u>	<u>AK 30</u>	
SHV. ADJ/SHAFT CL	<u>FIXED</u>	<u>16 1/2</u>		<u>FIXED</u>	<u>14</u>	

NOTES:

OUTLET & INLET TEST SHEET

DATE: .
SHEET NO:

PROJECT: MARLTON E. S.

SYSTEM: HRV-5 supply QA

[illegible]

NOTES :

OUTLET & INLET TEST SHEET

DATE:
SHEET NO:

SYSTEM: HRV-5 EXHAUST

PROJECT: MARLTON E.S.

[illegible]

YES:

TRAVERSE TEST SHEET

DATE:
SHEET NO:

PROJECT: *MARLTON E.S*

SYSTEM: *HRV-5*

FAN NO: *SUPPLY OA.*

DESIGN CFM: *2000*

ACTUAL CFM: *2034*

DUCT SIZE: *18x6*

DUCT S.P.: *+0.29* IN. / W.G.

DUCT AREA: *2.00*

SQ.FT.

ACTUAL VELOCITY: *1017* F.P.M.

DESIGN VELOCITY: *1000*

F.P.M.

TRAVERSE LOCATION: *ATTIC MAIN BRANCH (MINUS OUTLET #1)*

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

	A	B	C	D	E	F	G	H	I	J	K	L	M
1	<i>670</i>	<i>855</i>	<i>657</i>	<i>578</i>									
2	<i>1377</i>	<i>1072</i>	<i>808</i>	<i>949</i>									
3	<i>1449</i>	<i>1502</i>	<i>1232</i>	<i>1050</i>									
4													
5													
6													
7													
8													
9													
10													
11													
12													
13													
14													
15													
T													

KS:

TRAVERSE TEST SHEET

DATE:

SHEET NO:

SYSTEM: *HRV-5*

PROJECT: MARLTON E.S.

FAN NO: SUPPLY

DESIGN CFM: 390

DUCT SIZE: 12x8

DUCT AREA: 0.66

DESIGN VELOCITY: 585 F.P.M.

DESIGN VELOCITY: 58.5
TRAVERSE LOCATION: ATTK (OUTLET # 1)

DAMPER SETTINGS

O.A:

%

R.A:

%

E.A:

%

[illegible]