



Comfort. Under control.

# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP B1-1

Area: B111

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611427

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1700	1745
Fan Speed		1850
RA CFM	1675	1697
RL Voltage	460	467/469/470
RL Amperage	6	2.3/2.2/2.2
Suction ESP		-0.36
Discharge ESP		0.08
Total ESP	-	0.48
Brake HP	-	0.37

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B11-1	B112	S-3	10	250	33	255	1.02
B11-2	B112	S-3	10	250	304	256	1.02
B11-3	B112	S-3	10	250	265	253	1.01
B11-4	B110	S-1	6	50	82	54	1.08
B11-5	B108	S-3	10	300	289	310	1.03
B11-6	B109	S-2	8	150	169	158	1.05
B11-7	B108	S-3	10	225	239	230	1.02
B11-8	B108	S-3	10	225	155	229	1.02
<b>SUPPLY</b>				<b>1700</b>		<b>1745</b>	<b>1.03</b>
RB11-1	B110	R-1	6	50	47	52	1.04
RB11-2	B112	R-5	14	750	714	760	1.01
RB11-3	B108	R-5	14	725	571	733	1.01
RB11-4	B109	R-2	8	150	143	152	1.01
<b>RETURN</b>				<b>1675</b>		<b>1697</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP B1-2**

**Area: B106**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611434

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1669
Fan Speed		1500
RA CFM	1600	1637
RL Voltage	460	478/475/478
RL Amperage	6	2.0/1.9/2.0
Suction ESP		-0.43
Discharge ESP		0.07
Total ESP	-	0.5
Brake HP	-	0.33

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B12-1	B107	S-3	10	250	49	257	1.03
B12-2	B107	S-3	10	275	454	284	1.03
B12-3	B107	S-3	10	275	43	288	1.05
B12-4	B105	S-3	10	250	403	261	1.04
B12-5	B105	S-3	10	275	427	289	1.05
B12-6	B105	S-3	10	275	378	290	1.05
<b>SUPPLY</b>				<b>1600</b>		<b>1669</b>	<b>1.04</b>
RB12-1	B107	R-5	14	800	818	822	1.03
RB12-2	B105	R-5	14	800	620	815	1.02
<b>RETURN</b>				<b>1600</b>		<b>1637</b>	<b>1.02</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP B1-3**

**Area: B103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611433

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1650	1691
Fan Speed	-	1600
RA CFM	1600	1676
RL Voltage	460	484/484/480
RL Amperage	6	3.5/3.5/3.6
Suction ESP	-	-1.23"
Discharge ESP	-	0.08"
Total ESP	-	1.31"
Brake HP	-	0.58

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B113-1	B104	S-3	10	250	271	255	1.02
B113-2	B104	S-3	10	250	279	253	1.01
B113-3	B104	S-3	10	275	242	278	1.01
B113-4	B102	S-1	6	50	163	53	1.06
B113-5	B101	S-3	10	275	233	281	1.02
B113-6	B101	S-3	10	275	223	284	1.03
B113-7	B101	S-3	10	275	214	285	1.04
<b>SUPPLY</b>				<b>1650</b>		<b>1689</b>	<b>1.02</b>
RB13-1	B104	R-5	14	800	567	815	1.02
RB13-2	B102	R-1	6	50	221	51	1.02
RB13-3	B101	R-5	14	800	585	810	1.01
<b>RETURN</b>				<b>1650</b>		<b>1676</b>	<b>1.02</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP B1-4

Area: B114

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611432

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1639
Fan Speed	-	1525
RA CFM	1600	1613
RL Voltage	460	483/483/479
RL Amperage	6	1.9/1.9/1.8
Suction ESP	-	-0.41"
Discharge ESP	-	0.08"
Total ESP	-	0.49"
Brake HP	-	0.32

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B14-1	A134	S-1	6	100	56	100	1.00
B14-2	B113	S-3	10	250	155	255	1.02
B14-3	B113	S-3	10	250	130	251	1.00
B14-4	B113	S-3	10	250	121	255	1.02
B14-5	B115	S-3	10	250	200	261	1.04
B14-6	B115	S-3	10	250	176	262	1.05
B14-7	B115	S-3	10	250	80	255	1.02
<b>SUPPLY</b>				<b>1600</b>		<b>1639</b>	<b>1.02</b>
RB14-1	A134	R-1	6	100	40	100	1.00
RB14-2	B113	R-5	14	750	703	763	1.02
RB14-3	B115	R-5	14	750	693	750	1.00
<b>RETURN</b>				<b>1600</b>		<b>1613</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP B1-5

Area: B117

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224411474

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1632
Fan Speed	-	1500
RA CFM	1600	1608
RL Voltage	460	482/478/481
RL Amperage	6	1.9/1.8/1.9
Suction ESP	-	-0.36"
Discharge ESP	-	0.09"
Total ESP	-	0.45"
Brake HP	-	0.15

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B15-1	B116	S-3	10	250	150	254	1.02
B15-2	B116	S-3	10	275	335	282	1.03
B15-3	B116	S-3	10	275	400	280	1.02
B15-4	B118	S-3	10	250	140	255	1.02
B15-5	B118	S-3	10	275	80	283	1.03
B15-6	B118	S-3	10	275	60	278	1.01
<b>SUPPLY</b>				<b>1600</b>		<b>1632</b>	<b>1.02</b>
RB15-1	B116	R-5	14	800	756	810	1.01
RB15-2	B118	R-5	14	800	691	798	1.00
<b>RETURN</b>				<b>1600</b>		<b>1608</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP B1-6**

**Area: B123A**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610906

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	800	828
Fan Speed	-	775
RA CFM	800	818
RL Voltage	265	277
RL Amperage	3.2	1.1
Suction ESP	-	-0.37"
Discharge ESP	-	0.09"
Total ESP	-	0.46"
Brake HP	-	0.09

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B16-1	B124	S-4	12	400	123	408	1.02
B16-2	B121	S-2	8	200	140	209	1.05
B16-3	B121	S-2	8	200	250	211	1.06
<b>SUPPLY</b>				<b>800</b>		<b>828</b>	<b>1.04</b>
RB16-1	B124	R-4	12	400	408	408	1.02
RB16-2	B121	R-2	8	400	420	410	1.03
<b>RETURN</b>				<b>800</b>		<b>818</b>	<b>1.02</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP B1-7

Area: B123A

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310537

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.14
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	420
Fan Speed	-	LOW
RA CFM	400	400
RL Voltage	265	280
RL Amperage	0.7	0.4
Suction ESP	-	-0.08"
Discharge ESP	-	0.05"
Total ESP	-	0.13"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
B17-1	B128	S-1	6	50	75	55	1.10
B17-2	B129	S-1	6	50	78	55	1.10
B17-3	A134	S-2	8	150	198	157	1.05
B17-4	B119	S-2	8	150	201	153	1.02
<b>SUPPLY</b>				<b>400</b>		<b>420</b>	<b>1.05</b>
RB17-1	B119	R-2	8	150	120	148	0.99
RB17-2	A134	R-3	10	250	205	252	1.01
<b>RETURN</b>				<b>400</b>		<b>400</b>	<b>1.00</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP A1-1

Area: A124

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-006
Serial Num	224411021

Test Data		
	Design	Actual
SA CFM	200	208
Fan Speed		LOW
OA CFM	30	32
RA CFM	170	176
RL Voltage	265	176
RL Amperage	0.4	0.3
Suction ESP		-0.16
Discharge ESP		0.06
Total ESP	-	0.22
Brake HP	-	0.03

Motor Data	
Motor MFG	US Motors
Horsepower	0.04
Motor Rpm	1500
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A11-1	A119	S-1	6	25	0	25	1.00
A11-2	A115	S-1	6	75	97	77	1.03
A11-3	A121	S-1	6	25	105	27	1.08
A11-4	A122	S-1	6	75	90	79	1.05
<b>SUPPLY</b>				<b>200</b>		<b>208</b>	<b>1.04</b>
OA FROM DOAS	A1-1	DUCT		30	36	32	1.07
<b>OA</b>				<b>30</b>		<b>32</b>	<b>1.07</b>
RA11-1	A115	R-1	6	95	114	98	0.00
RA11-2	A122	R-1	6	75	0	78	1.04
<b>RETURN</b>				<b>170</b>		<b>176</b>	<b>1.04</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-2**

**Area: B100**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-009
Serial Num	224310531

Motor Data	
Motor MFG	US Motors
Horsepower	0.05
Motor Rpm	1680
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Test Data		
	Design	Actual
SA CFM	300	328
Fan Speed	-	LOW
RA CFM	300	319
RL Voltage	265	278
RL Amperage	0.4	0.3
Suction ESP		-0.23"
Discharge ESP		0.05"
Total ESP	-	0.28"
Brake HP	-	0.04

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A112-1	A118	S-3	10	300	379	328	1.09
<b>SUPPLY</b>				<b>300</b>		<b>328</b>	<b>1.09</b>
RA12-1	A118	R-3	10	300	379	319	1.06
<b>RETURN</b>				<b>300</b>		<b>319</b>	<b>1.06</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP A1-3

Area: A124

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310536

Motor Data	
Motor MFG	US Motors
Horsepower	0.14
Motor Rpm	1680
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	387
Fan Speed		LOW
OA CFM	70	72
RA CFM	330	315
RL Voltage	265	271
RL Amperage	0.7	0.4
Suction ESP		-0.08"
Discharge ESP		0.02"
Total ESP	-	0.10"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A13-1	A117	S-2	8	200	243	195	0.98
A13-2	A117	S-2	8	200	222	192	0.96
<b>SUPPLY</b>				<b>400</b>		<b>387</b>	<b>0.97</b>
OA FROM DOAS	A1-3	DUCT		70	65	72	1.03
<b>OA</b>				<b>70</b>		<b>72</b>	<b>1.03</b>
RA13-1	A117	R-4		330	465	315	0.95
<b>RETURN</b>				<b>330</b>		<b>315</b>	<b>0.95</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP A1-4

Area: A124

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-006
Serial Num	224411023

Motor Data	
Motor MFG	US Motors
Horsepower	0.04
Motor Rpm	1500
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Test Data		
	Design	Actual
SA CFM	200	262
Fan Speed		LOW
		-
RA CFM	200	259
RL Voltage	265	276
RL Amperage	0.4	0.3
Suction ESP		-0.16"
Discharge ESP		0.06"
Total ESP	-	0.22"
Brake HP	-	0.03

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A14-1	A125	S-2	8	200	279	262	1.31
<b>SUPPLY</b>				<b>200</b>		<b>262</b>	<b>1.31</b>
RA14-1	A125	R-2	8	200	279	262	1.31
<b>RETURN</b>				<b>200</b>		<b>262</b>	<b>1.31</b>

NOTES:

**lowest speed**



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-5**

**Area: A124**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-038
Serial Num	225011006

Motor Data	
Motor MFG	Perfect Speed
Horsepower	0.5
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	1200	1256
Fan Speed		1250
		-
RA CFM	1200	1230
RL Voltage	460	470/473/474
RL Amperage	3.2	1.5/1.5/1.5
Suction ESP		-0.15"
Discharge ESP		0.03"
Total ESP	-	0.18"
Brake HP	-	0.23

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A15-1	A100	S-12	16X8	300	266	319	1.06
A15-2	A100	S-12	16X8	300	329	326	1.09
A15-3	A100	S-12	16X8	300	298	323	1.08
A15-4	A001	S-12	16X8	300	365	288	0.96
<b>SUPPLY</b>				<b>1200</b>		<b>1256</b>	<b>1.05</b>
RA15-1	A134	R-4	12	1200	1230	1230	1.03
<b>RETURN</b>				<b>1200</b>		<b>1230</b>	<b>1.03</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP A1-6

Area: A108

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-006
Serial Num	224411022

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.04
Motor Rpm	1500
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Test Data		
	Design	Actual
SA CFM	200	270
Fan Speed		LOW
OA CFM	55	60
RA CFM	145	210
RL Voltage	265	276
RL Amperage	0.4	0.3
Suction ESP		-0.14"
Discharge ESP		0.17"
Total ESP	-	0.31"
Brake HP	-	0.03

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A16-1	A102	S-1	6	75	134	101	1.35
A16-2	A102	S-1	6	50	0	67	1.34
A16-3	A103	S-2	8	75	140	102	1.36
<b>SUPPLY</b>				<b>200</b>		<b>270</b>	<b>1.35</b>
OA FROM DOAS	A1-6	DUCT		55		60	1.09
<b>OA</b>				<b>55</b>		<b>60</b>	<b>1.09</b>
RA16-1	A102	R-2	8	145		210	1.45
<b>RETURN</b>				<b>145</b>		<b>210</b>	<b>1.45</b>

NOTES:

**lowest speed**



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-7**

**Area: A108**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310535

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	419
Fan Speed		LOW
OA CFM	105	108
RA CFM	295	311
RL Voltage	265	279
RL Amperage	0.7	0.3
Suction ESP		-0.09"
Discharge ESP		0.05"
Total ESP	-	0.14"
Brake HP	-	0.06

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A17-1	A106	S-1	6	100	118	107	1.07
A17-2	A101	S-2	8	150	180	155	1.03
A17-3	A101	S-2	8	150	202	157	1.05
<b>SUPPLY</b>				<b>400</b>		<b>419</b>	<b>1.05</b>
OA FROM DOAS	A1-7	DUCT		105	0	108	1.03
<b>OA</b>				<b>105</b>		<b>108</b>	<b>1.03</b>
RA17-1	A106	R-2		75	150	78	1.04
RA17-2	A101	R-1		220	200	233	1.06
<b>RETURN</b>				<b>295</b>		<b>311</b>	<b>1.05</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP A1-8

Area: A108

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-009
Serial Num	224310532

Test Data		
	Design	Actual
SA CFM	300	322
Fan Speed		LOW
OA CFM	80	84
RA CFM	220	238
RL Voltage	265	278
RL Amperage	0.4	0.3
Suction ESP		-0.10"
Discharge ESP		0.03"
Total ESP	-	0.13"
Brake HP	-	0.04

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.05
Motor Rpm	1580
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A18-1	A109	S-1	6	50	219	52	1.04
A18-2	A111	S-1	6	75	140	80	1.07
A18-3	A113	S-1	6	75	50	82	1.09
A18-4	A110	S-1	6	100	45	108	1.08
<b>SUPPLY</b>				<b>300</b>		<b>322</b>	<b>1.07</b>
OA FROM DOAS	A1-8	DUCT		80	0	84	1.05
<b>OA</b>				<b>80</b>		<b>0</b>	<b>0.00</b>
RA18-1	A109	R-1	6	55	0	58	1.05
RA18-2	A111	R-1	6	55	0	59	1.07
RA18-3	A110	R-1	6	37	32	41	1.11
RA18-4	A113	R-1	6	73	64	80	1.10
<b>RETURN</b>				<b>220</b>		<b>238</b>	<b>1.08</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-9**

**Area: E103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-26
Serial Num	224610905

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	900	919
Fan Speed		875
RA CFM	800	898
RL Voltage	265	276
RL Amperage	3.2	1.3
Suction ESP		-0.21"
Discharge ESP		0.1"
Total ESP	-	0.31"
Brake HP	-	0.20

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A19-1	A126	S-3	10	300	163	308	1.03
A19-2	A126	S-3	10	300	251	303	1.01
A19-3	A126	S-3	10	300	132	308	1.03
<b>SUPPLY</b>				<b>900</b>		<b>919</b>	<b>1.02</b>
RA19-1	A126	R-5	14	800	501	898	1.12
<b>RETURN</b>				<b>800</b>		<b>898</b>	<b>1.12</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-10**

**Area: E103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310534

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	379
Fan Speed	-	LOW
RA CFM	400	366
RL Voltage	265	282
RL Amperage	0.7	0.4
Suction ESP	-	-0.13
Discharge ESP	-	0.03
Total ESP	-	0.16
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A110-1	A131	S-1	6	50	48	46	0.92
A110-2	A129	S-2	8	175	174	167	0.95
A110-3	A29	S-2	8	175	173	166	0.95
<b>SUPPLY</b>				<b>400</b>		<b>379</b>	<b>0.95</b>
RA110-1	A131	R-1	6	50	95	46	0.92
RA110-2	A129	R-3	10	350	353	320	0.91
<b>RETURN</b>				<b>400</b>		<b>366</b>	<b>0.92</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-11      Area: E103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610907

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	750	791
Fan Speed	-	750
RA CFM	800	785
RL Voltage	265	282
RL Amperage	3.2	1.1
Suction ESP	-	-0.27"
Discharge ESP	-	0.18"
Total ESP	-	0.45"
Brake HP	-	0.17

VHP-024

6 GPM

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A111-1	A128	S-3	10	250	278	263	1.05
A111-2	A128	S-3	10	250	282	267	1.07
A111-3	A128	S-3	10	250	258	261	1.04
<b>SUPPLY</b>				<b>750</b>		<b>791</b>	<b>1.05</b>
RA111-1	A128	R-5	14	800	785	785	0.98
<b>RETURN</b>				<b>800</b>		<b>785</b>	<b>0.98</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP A1-12

Area: E103

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611429

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1650	1697
Fan Speed	-	1600
RA CFM	1600	1668
RL Voltage	460	490/486/490
RL Amperage	6	2.8/2.8/2.7
Suction ESP	-	-0.77"
Discharge ESP	-	0.19"
Total ESP	-	0.96"
Brake HP	-	0.47

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A112-1	A130	S-2	8	175	134	181	1.03
A112-2	A130	S-2	8	175	77	179	1.02
A112-3	A130	S-2	8	175	88	182	1.04
A112-4	A130	S-5	14	200	90	202	1.01
A112-5	A130	S-2	8	175	136	181	1.03
A112-6	A130	S-2	8	175	119	180	1.03
A112-7	A130	S-2	8	175	119	182	1.04
A112-8	A130	S-5	14	200	27	206	1.03
A112-9	A130	S-5	14	200	116	204	1.02
<b>SUPPLY</b>				<b>1650</b>		<b>1697</b>	<b>1.03</b>
RA112-1	A130	R-9	46X22	1600	912	1668	1.04
<b>RETURN</b>				<b>1600</b>		<b>1668</b>	<b>1.04</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP A1-13      Area: C130**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-26
Serial Num	224610908

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	850	869
Fan Speed	-	825
RA CFM	850	856
RL Voltage	265	276
RL Amperage	3.2	1
Suction ESP	-	-0.20"
Discharge ESP	-	0.02"
Total ESP	-	0.22"
Brake HP	-	0.16

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
A113-1	A132	S-3	10	250	65	257	1.03
A113-2	A132	S-1	6	100	0	103	1.03
A113-3	A132	S-3	10	250	398	255	1.02
A113-4	A132	S-3	10	250	393	254	1.02
<b>SUPPLY</b>				<b>850</b>		<b>869</b>	<b>1.02</b>
RA113-1	A132	R-5	14	850	856	856	1.01
<b>RETURN</b>				<b>850</b>		<b>856</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C1-1**

**Area: C103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310540

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	382
Fan Speed	-	LOW
RA CFM	400	371
RL Voltage	265	275
RL Amperage	0.7	0.4
Suction ESP	-	-0.09"
Discharge ESP	-	0.02"
Total ESP	-	0.11"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C11-1	C104	S-2	8	200	350	196	0.98
C11-2	C104	S-2	8	200	0	186	0.93
<b>SUPPLY</b>				<b>400</b>		<b>382</b>	<b>0.96</b>
RC11-1	C104	R-4	12	400	371	371	0.93
<b>RETURN</b>				<b>400</b>		<b>371</b>	<b>0.93</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C1-2

Area: C103

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610913

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	800	819
Fan Speed		725
RA CFM	800	806
RL Voltage	265	273
RL Amperage	3.2	0.7
Suction ESP		-0.19"
Discharge ESP		0.03"
Total ESP	-	0.22"
Brake HP	-	0.11

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C12-1	C102	S-1	6	100	139	106	1.06
C12-2	C105	S-3	10	250	54	255	1.02
C12-3	C105	S-3	10	200	174	202	1.01
C12-4	C105	S-3	10	250	356	256	1.02
<b>SUPPLY</b>				<b>800</b>		<b>819</b>	<b>1.02</b>
RC12-1	C102	R-1	6	100	0	94	0.94
RC12-2	C105	R-5	14	700	819	712	1.02
<b>RETURN</b>				<b>800</b>		<b>806</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C1-3

Area: C107

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611438

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1650
Fan Speed	-	1500
RA CFM	1600	1606
RL Voltage	460	470/468/472
RL Amperage	6	1.9/1.8/1.9
Suction ESP	-	-0.33"
Discharge ESP	-	0.07"
Total ESP	-	0.40"
Brake HP	-	0.32

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C13-1	C106	S-3	10	250	287	260	1.04
C13-2	C106	S-3	10	275	267	278	1.01
C13-3	C106	S-3	10	275	245	282	1.03
C13-4	C108	S-3	10	250	287	264	1.06
C13-5	C108	S-3	10	275	287	285	1.04
C13-6	C108	S-3	10	275	265	281	1.02
<b>SUPPLY</b>				<b>1600</b>		<b>1650</b>	<b>1.03</b>
RC13-1	C106	R-5	14	800	750	815	1.02
RC13-2	C108	R-5	14	800	730	791	0.99
<b>RETURN</b>				<b>1600</b>		<b>1606</b>	<b>1.00</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C1-4

Area: C110

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1648
Fan Speed		1550
RA CFM	1600	1598
RL Voltage	460	484/485/482
RL Amperage	6	1.8/1.7/1.7
Suction ESP		-0.31"
Discharge ESP		0.03"
Total ESP	-	0.34"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C14-1	C109	S-3	10	250	378	256	1.02
C14-2	C109	S-3	10	275	413	280	1.02
C14-3	C109	S-3	10	275	49	281	1.02
C14-4	C111	S-3	10	250	416	259	1.04
C14-5	C111	S-3	10	275	396	285	1.04
C14-6	C111	S-3	10	275	50	287	1.04
<b>SUPPLY</b>				<b>1600</b>		<b>1648</b>	<b>1.03</b>
RC14-1	C109	R-5	14	800	745	805	1.01
RC14-2	C111	R-5	14	800	720	793	0.99
<b>RETURN</b>				<b>1600</b>		<b>1598</b>	<b>1.00</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C1-5

Area: C130

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-009
Serial Num	224411026

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.05
Motor Rpm	1580
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Test Data		
	Design	Actual
SA CFM	300	369
Fan Speed	-	LOW
RA CFM	300	365
RL Voltage	265	273
RL Amperage	0.4	0.2
Suction ESP	-	-0.14"
Discharge ESP	-	0.22"
Total ESP	-	0.36
Brake HP	-	0.03

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C15-1	C128	S-1	6	50	95	61	1.22
C15-2	C127	S-1	6	50	95	61	1.22
C15-3	A134	S-1	6	100	103	123	1.23
C15-4	C119	S-1	6	100	115	124	1.24
<b>SUPPLY</b>				<b>300</b>		<b>369</b>	<b>1.23</b>
RC15-1	A134	R-2	8	200	263	245	1.23
RC15-2	A134	R-1	6	100	145	120	1.20
<b>RETURN</b>				<b>300</b>		<b>365</b>	<b>1.22</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C1-6**

**Area: C130**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310533

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	385
Fan Speed	-	LOW
RA CFM	400	379
RL Voltage	265	274
RL Amperage	0.7	0.4
Suction ESP	-	-0.11"
Discharge ESP	-	0.03"
Total ESP	-	0.14"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C16-1	C123	S-4	12	400	457	385	0.96
<b>SUPPLY</b>				<b>400</b>		<b>385</b>	<b>0.96</b>
RC16-1	C123	R-3	10	400	445	379	0.95
<b>RETURN</b>				<b>400</b>		<b>379</b>	<b>0.95</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C1-7

Area: C118

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611439

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1662
Fan Speed	-	1550
RA CFM	1600	1616
RL Voltage	460	478/475/473
RL Amperage	6	2.1/2.0/2.1
Suction ESP	0.6	-0.35"
Discharge ESP	-	0.08"
Total ESP	-	0.43"
Brake HP	-	0.35

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C17-1	C117	S-2	8	200	266	209	1.05
C17-2	C117	S-3	10	250	256	259	1.04
C17-3	C117	S-3	10	250	280	261	1.04
C17-4	C121	S-2	8	150	196	155	1.03
C17-5	C120	S-1	6	50	107	53	1.06
C17-6	C122	S-2	8	200	175	206	1.03
C17-7	C122	S-3	10	250	305	261	1.04
C17-8	C122	S-3	10	250	84	258	1.03
<b>SUPPLY</b>				<b>1600</b>		<b>1662</b>	<b>1.04</b>
RC17-1	C117	R-5	14	700	1000	705	1.01
RC17-2	C120	R-1	6	50	68	50	1.00
RC17-3	C121	R-2	8	150	130	155	1.03
RC17-4	C122	R-5	14	700	223	706	1.01
<b>RETURN</b>				<b>1600</b>		<b>1616</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C1-8

Area: C115

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	23011059

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1639
Fan Speed	-	1725
RA CFM	1600	1604
RL Voltage	460	480/470/481
RL Amperage	6	3.0/2.7/2.6
Suction ESP	-	-0.77"
Discharge ESP	-	0.02"
Total ESP	-	0.79"
Brake HP	-	0.45

Asset	Area Served	Type	Size	DESIGN CFM	Prelim	CFM	FINAL CFM	% to design
C18-1	C114	S-3	10	250	0		259	1.04
C18-2	C114	S-3	10	275	300		278	1.01
C18-3	C114	S-3	10	275	0		280	1.02
C18-4	C116	S-3	10	250	400		262	1.05
C18-5	C116	S-3	10	275	216		282	1.03
C18-6	C116	S-3	10	275	287		278	1.01
<b>SUPPLY</b>				<b>1600</b>			<b>1639</b>	<b>1.02</b>
RC18-1	C116	R-5	14	800	845		806	1.01
RC18-2	C114	R-5	14	800	795		798	1.00
<b>RETURN</b>				<b>1600</b>			<b>1604</b>	<b>1.00</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP D1-1

Area: D111

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	231311343

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1644
Fan Speed	-	1700
RA CFM	1600	1634
RL Voltage	460	478/480/481
RL Amperage	6	3.8/3.8/3.7
Suction ESP	-	-0.88"
Discharge ESP	-	0.15"
Total ESP	-	1.03"
Brake HP	-	0.63

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
D11-1	D109	S-10	18X6	400	374	405	1.01
D11-2	D109	S-10	18X6	400	395	413	1.03
D11-3	D109	S-10	18X6	400	356	420	1.05
D11-4	D109	S-10	18X6	400	380	406	1.02
<b>SUPPLY</b>				<b>1600</b>		<b>1644</b>	<b>1.03</b>
RD11-1	D110	R-13	72X12	1600	1504	1634	1.02
<b>RETURN</b>				<b>1600</b>		<b>1634</b>	<b>1.02</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP D1-2

Area: D111

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611426

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1650	1648
Fan Speed	-	1950
RA CFM	1650	1621
RL Voltage	460	477/476/479
RL Amperage	6	5.5/5.4/5.5
Suction ESP	-	-1.65"
Discharge ESP	-	0.16"
Total ESP	-	1.81"
Brake HP	-	0.91

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
D12-1	D110	S-2	8	200	179	202	1.01
D12-2	D112	S-1	6	50	220	54	1.08
D12-3	D113	S-1	6	100	78	102	1.02
D12-4	D110	S-1	6	100	91	100	1.00
D12-5	D118	S-1	6	100	92	98	0.98
D12-6	D119	S-1	6	100	93	97	0.97
D12-7	D120	S-4	12	400	380	395	0.99
D12-8	D122	S-1	6	100	83	99	0.99
D12-9	D123	S-1	6	100	104	100	1.00
D12-10	D121	S-4	12	400	387	401	1.00
<b>SUPPLY</b>				<b>1650</b>		<b>1648</b>	<b>1.00</b>
RD12-1	D113	R-1	6	100	96	96	0.96
RD12-2	D116	R-4	12	1550	1525	1525	0.98
<b>RETURN</b>				<b>1650</b>		<b>1621</b>	<b>0.98</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP D1-3

Area: D111

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224411472

Test Data		
	Design	Actual
SA CFM	2000	1680
Fan Speed	-	HIGH
RA CFM	2000	1665
RL Voltage	460	482/480/481
RL Amperage	6	3.4/3.3/3.5
Suction ESP	-	-0.96"
Discharge ESP	-	0.08"
Total ESP	-	1.04"
Brake HP	-	0.57

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
D13-1	D107	S-1	6	50	94	41	0.82
D13-2	D108	S-1	6	50	93	41	0.82
D13-3	D100	S-4	12	550	422	456	0.83
D13-4	D001	S-3	10	300	351	270	0.90
D13-5	D101	S-4	12	500	401	415	0.83
D13-6	D100	S-4	12	550	456	457	0.83
<b>SUPPLY</b>				<b>2000</b>		<b>1680</b>	<b>0.84</b>
RD13-1	D100	R-6	16	1100	1118	1118	1.02
RD13-2	D100	R-4	12	500	547	547	1.09
<b>RETURN</b>				<b>1600</b>		<b>1665</b>	<b>1.04</b>

NOTES:

**Unit Size is 1600 CFM not 2000**



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP D1-4A      Area: D103**

Unit Data	
<b>MFG</b>	CLIMATEMASTER
<b>Model Num</b>	TL-240
<b>Serial Num</b>	230411901

Test Data		
	Design	Actual
<b>SA CFM</b>	8000	8183
<b>Fan Speed</b>	-	911
<b>RA CFM</b>	8000	8124
<b>RL Voltage</b>	460	470/474/474
<b>RL Amperage</b>	7	6.3/6.4/6.7
<b>Suction ESP</b>	-	-0.67"
<b>Discharge ESP</b>	-	0.12"
<b>Total ESP</b>	-	0.79"
<b>Brake HP</b>	-	4.64

Motor Data	
<b>Motor MFG</b>	BALDOR
<b>Horsepower</b>	5
<b>Motor Rpm</b>	1750
<b>Phase</b>	3
<b>Voltage (rated)</b>	460
<b>Amperage (rated)</b>	7

Drive Data		
<b>Motor Sheave Size / Bore</b>	1VP60	1.125"
<b>Fan Sheave Size / Bore</b>	BK95H	1.1875"
<b>Belt CL Distance</b>	30.5"	
<b>No. Belts / Size</b>	1	BX82

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
D14A-1	D106	S-13	12x12	100	125	102	1.02
D14A-2	D102	S-11	24X8	1000	725	1025	1.03
D14A-3	D102	S-11	24X8	950	787	964	1.01
D14A-4	D102	S-11	24X8	1000	656	1015	1.02
D14A-5	D102	S-11	24X8	1000	722	1025	1.03
D14A-6	D102	S-11	24X8	1000	655	1032	1.03
D14A-7	D102	S-11	24X8	950	715	965	1.02
D14A-8	D102	S-11	24X8	1000	700	1022	1.02
D14A-9	D102	S-11	24X8	1000	712	1033	1.03
<b>SUPPLY</b>				<b>8000</b>		<b>8183</b>	<b>1.02</b>
RD14A-1	D106	R-11	8X6	100	165	102	1.02
RD14A-2	D102	R-8	28X40	3950	3056	4037	1.02
RD14A-3	D102	R-8	28X40	3950	2455	3985	1.01
<b>RETURN</b>				<b>8000</b>		<b>8124</b>	<b>1.02</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP D1-4B      Area: D114**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TL-240
Serial Num	230510385

Test Data		
	Design	Actual
SA CFM	8050	8151
Fan Speed	-	902
RA CFM	8050	8151
RL Voltage	460	475/480/478
RL Amperage	7	6.4/6.4/6.2
Suction ESP	-	-0.63"
Discharge ESP	-	0.23"
Total ESP	-	0.86"
Brake HP	-	4.54

Motor Data	
Motor MFG	BALDOR
Horsepower	5
Motor Rpm	894
Phase	3
Voltage (rated)	460
Amperage (rated)	7

Drive Data		
Motor Sheave Size / Bore	1VP60	1.125"
Fan Sheave Size / Bore	BK95H	1.1875"
Belt CL Distance	30.5"	
No. Belts / Size	1	BX81

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
D14B-1	D126	S-1	6	50	98	50	1.00
D14B-2	D130	S-13	8X6	100	115	106	1.06
D14B-3	D102	S-11	24X8	1000	925	1026	1.03
D14B-4	D102	S-11	24X8	950	925	964	1.01
D14B-5	D102	S-11	24X8	1000	905	1012	1.01
D14B-6	D102	S-11	24X8	1000	875	988	0.99
D14B-7	D102	S-11	24X8	1000	956	1032	1.03
D14B-8	D102	S-11	24X8	950	922	975	1.03
D14B-9	D102	S-11	24X8	1000	915	1020	1.02
D14B-10	D102	S-11	24X8	1000	988	978	0.98
<b>SUPPLY</b>				<b>8050</b>		<b>8151</b>	<b>1.01</b>
DAMPER	D129			900	856	856	0.95
<b>DAMPER</b>				<b>900</b>		<b>856</b>	<b>0.95</b>
RD14B-1	D130	R-11	8X6	100	145	105	1.05
RD14B-2	D102	R-8	28X40	4400	4054	4254	0.97
RD14B-3	D102	R-8	28X40	4400	4023	4359	0.99
<b>RETURN</b>				<b>8900</b>		<b>8718</b>	<b>0.98</b>

NOTES: 900 CFM RA VIA DAMPER BETWEEN HP 1-4B AND D1-5 RA DUCTS.



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP D1-5

Area: D114

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	221311342

Test Data		
	Design	Actual
SA CFM	1600	1643
Fan Speed	-	1600
RA CFM	1600	1581
RL Voltage	460	466/468/470
RL Amperage	6	3.0/3.0/3.0
Suction ESP	-	-0.57"
Discharge ESP	-	0.25"
Total ESP	-	0.82"
Brake HP	-	0.50

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
D15-1	D135	S-4	12	400	440	402	1.01
D15-2	D131	S-1	6	75	0	79	1.05
D15-3	D136	S-1	6	50	83	51	1.02
D15-4	D137	S-1	6	50	84	52	1.04
D15-5	D132	S-1	6	75	0	78	1.04
D15-6	D128	S-4	12	400	486	410	1.03
D15-7	D125	S-2	8	200	165	208	1.04
D15-8	D133	S-1	6	75	0	80	1.07
D15-9	D138	S-3	10	275	283	283	1.03
<b>SUPPLY</b>				<b>1600</b>		<b>1643</b>	<b>1.03</b>
DAMPER	D129	Duct		900		856	0.95
RD15-1	D125	R-2	8	200	230	215	1.08
RD15-2	D131	R-1	6	75	85	77	1.03
RD15-3	D132	R-1	6	75	86	75	1.00
RD15-4	D133	R-1	6	75	60	73	0.97
RD15-5	D138	R-3	10	275	293	285	1.04
<b>RETURN</b>				<b>1600</b>		<b>1581</b>	<b>0.99</b>

NOTES:

900 CFM RA VIA DAMPER BETWEEN HP 1-4B AND D1-5 RA DUCTS.



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP E1-1**

**Area: D103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-038
Serial Num	224611425

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	1200	1208
Fan Speed	-	1225
RA CFM	1100	1182
RL Voltage	460	488/485/488
RL Amperage	3.2	1.5/1.7/1.6
Suction ESP	-	-0.58"
Discharge ESP	-	0.08"
Total ESP	-	0.64"
Brake HP	-	0.25

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E11-1	E101	S-1	6	50	84	51	1.02
E11-2	E100	S-2	8	200	180	196	0.98
E11-3	E105	S-3	10	250	306	261	1.04
E11-4	E105	S-3	10	300	42	302	1.01
E11-5	E105	S-1	6	100	81	95	0.95
E11-6	E105	S-3	10	250	301	251	1.00
E11-7	E107	S-1	6	50	128	52	1.04
<b>SUPPLY</b>				<b>1200</b>		<b>1208</b>	<b>1.01</b>
RE11-1	E105	R-6		1200	1182	1182	0.99
<b>RETURN</b>				<b>1200</b>		<b>1182</b>	<b>0.99</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP E1-2**

**Area: D103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610910

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	800	831
Fan Speed	-	750
RA CFM	800	815
RL Voltage	265	286
RL Amperage	3.2	0.7
Suction ESP		-0.16"
Discharge ESP		0.02
Total ESP	-	0.18"
Brake HP	-	0.11

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E12-1	E106	S-3	10	250	350	251	1.00
E12-2	E109	S-1	6	50	112	71	1.42
E12-3	E106	S-3	10	250	0	253	1.01
E12-4	E106	S-3	10	250	340	256	1.02
<b>SUPPLY</b>				<b>800</b>		<b>831</b>	<b>1.04</b>
RE12-1	E106	R-5	14	800	735	815	1.02
<b>RETURN</b>				<b>800</b>		<b>815</b>	<b>1.02</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP E1-3

Area: D103

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-009
Serial Num	224411025

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.05
Motor Rpm	1580
Phase	1
Voltage (rated)	265
Amperage (rated)	0.4

Test Data		
	Design	Actual
SA CFM	300	328
Fan Speed	-	LOW
RA CFM	400	309
RL Voltage	265	284
RL Amperage	0.4	0.3
Suction ESP	-	-0.12"
Discharge ESP	-	0.04"
Total ESP	-	0.16"
Brake HP	-	0.04

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E13-1	E104	S-1	6	75	93	81	1.08
E13-2	E111	S-1	6	75	94	80	1.07
E13-3	E112	S-2	8	150	177	167	1.11
<b>SUPPLY</b>				<b>300</b>		<b>328</b>	<b>1.09</b>
RE13-1	E104	R-1	6	75	98	77	1.03
RE13-2	E111	R-1	6	75	61	78	1.04
RE13-3	E112	R-2	8	150	140	154	1.03
<b>RETURN</b>				<b>300</b>		<b>309</b>	<b>1.03</b>

NOTES:



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP E1-4

Area: D103

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	2243105541

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	350	348
Fan Speed	-	LOW
RA CFM	350	340
RL Voltage	265	280
RL Amperage	0.7	0.4
Suction ESP	-	-0.15"
Discharge ESP	-	0.10"
Total ESP	-	0.25
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E14-1	E110	S-1	6	50	51	51	1.02
E14-2	E122	S-3	10	300	297	297	0.99
<b>SUPPLY</b>				<b>350</b>		<b>348</b>	<b>0.99</b>
RE14-1	E110	R-1	6	50	85	46	0.92
RE14-2	E122	R-3	10	300	215	294	0.98
<b>RETURN</b>				<b>350</b>		<b>340</b>	<b>0.97</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP E1-5**

**Area: D103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610909

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	700	728
Fan Speed	-	675
RA CFM	700	707
RL Voltage	265	288
RL Amperage	3.2	0.8
Suction ESP	-	-0.31"
Discharge ESP	-	0.08"
Total ESP	-	0.39"
Brake HP	-	0.125

Asset	Area Served	Type	Size	DESIGN CFM	Prelim	CFM	FINAL CFM	% to design
E15-1	E116	S-1	6	50	0		54	1.08
E15-2	E118	S-2	8	200	261		208	1.04
E15-3	E118	S-2	8	200	257		206	1.03
E15-4	E118	S-2	8	200	0		207	1.04
E15-5	E117	S-1	6	50	144		53	1.06
<b>SUPPLY</b>				<b>700</b>			<b>728</b>	<b>1.04</b>
RE15-1	E116	R-1	6	50	0		42	0.84
RE15-2	E117	R-1	6	50	442		45	0.90
RE15-3	E118	R-4	12	600	220		620	1.03
<b>RETURN</b>				<b>700</b>			<b>707</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP E1-6**

**Area: D103**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610404

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	800	819
Fan Speed	-	775
RA CFM	800	806
RL Voltage	265	264
RL Amperage	3.2	1.4
Suction ESP	-	-0.71"
Discharge ESP	-	0.05"
Total ESP	-	0.81"
Brake HP	-	0.22

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E16-1	E113	S-3	10	275	328	283	1.03
E16-2	E113	S-3	10	250	330	255	1.02
E16-3	E113	S-3	10	275	331	281	1.02
<b>SUPPLY</b>				<b>800</b>		<b>819</b>	<b>1.02</b>
RE16-1	E113	R-12	24X10	800	958	806	1.01
<b>RETURN</b>				<b>800</b>		<b>806</b>	<b>1.01</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP E1-7**

**Area: E119**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-026
Serial Num	224610903

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	800	830
Fan Speed	-	750
RA CFM	800	818
RL Voltage	265	277
RL Amperage	3.2	0.8
Suction ESP	-	-0.25"
Discharge ESP	-	0.08"
Total ESP	-	0.41"
Brake HP	-	0.13

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E17-1	E115	S-3	10	250	377	255	1.02
E17-2	E115	S-3	10	275	321	285	1.04
E17-3	E115	S-3	10	275	312	290	1.05
<b>SUPPLY</b>				<b>800</b>		<b>830</b>	<b>1.04</b>
RE17-1	E115	R-5	14	800	998	818	1.02
<b>RETURN</b>				<b>800</b>		<b>818</b>	<b>1.02</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP E1-8A      Area: E137**

Unit Data	
<b>MFG</b>	CLIMATEMASTER
<b>Model Num</b>	TE-72
<b>Serial Num</b>	224611419

Motor Data	
<b>Motor MFG</b>	PERFECT SPEED
<b>Horsepower</b>	1
<b>Motor Rpm</b>	NL
<b>Phase</b>	3
<b>Voltage (rated)</b>	460
<b>Amperage (rated)</b>	6

Test Data		
	Design	Actual
<b>SA CFM</b>	2400	2256
<b>Fan Speed</b>		1500
		-
<b>RA CFM</b>	2400	2238
<b>RL Voltage</b>	460	477/475/475
<b>RL Amperage</b>	6	1.6/1.6/1.7
<b>Suction ESP</b>		-0.08"
<b>Discharge ESP</b>		0.02"
<b>Total ESP</b>	-	0.10"
<b>Brake HP</b>	-	0.27

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E18-1	E121	S-7	20X8	240	148	121	0.50
E18-2	E121	S-7	20X8	240	203	143	0.60
E18-3	E121	S-7	20X8	240	150	129	0.54
E18-4	E121	S-7	20X8	240	212	154	0.64
E18-5	E121	S-7	20X8	240	334	216	0.90
E18-6	E121	S-7	20X8	240	442	267	1.11
E18-7	E121	S-7	20X8	240	444	276	1.15
E18-8	E121	S-7	20X8	240	572	334	1.39
E18-9	E121	S-7	20X8	240	480	330	1.38
E18-10	E121	S-7	20X8	240	509	269	1.12
E18-11	E121	S-7	20X8	240	194	113	0.47
E18-12	E121	S-7	20X8	240	177	88	0.37
E18-13	E121	S-7	20X8	240	196	140	0.58
E18-14	E121	S-7	20X8	240	235	131	0.55
E18-15	E121	S-7	20X8	240	398	228	0.95
E18-16	E121	S-7	20X8	240	479	305	1.27
E18-17	E121	S-7	20X8	240	540	309	1.29
E18-18	E121	S-7	20X8	240	533	316	1.32
E18-19	E121	S-7	20X8	240	539	323	1.35
E18-20	E121	S-7	20X8	240	426	320	1.33
<b>SUPPLY</b>				<b>4800</b>		<b>4512</b>	<b>0.94</b>
RE18-1	E121	R-10		4800	7056	4476	0.93
<b>RETURN</b>				<b>4800</b>		<b>4476</b>	<b>0.93</b>

**NOTES:**

E1-8A AND E1-8B SHARE COMMON SUPPLY AND RETURN DUCTS. ALL GRD'S LISTED ON E1-18A.

HP DESIGN IS 2300 CFM, SGRD TOTAL IS 4800 CFM (2400/HP), EGRD TOTAL IS 4800 CFM (2400 CFM/HP)





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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP E1-9

Area: E131

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-018
Serial Num	

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	1
Voltage (rated)	265
Amperage (rated)	0.9

Test Data		
	Design	Actual
SA CFM	800	840
Fan Speed		650
RA CFM	800	815
RL Voltage	265	280
RL Amperage	0.9	0.6
Suction ESP		-0.13"
Discharge ESP		0.08"
Total ESP	-	0.21"
Brake HP	-	0.33

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E19-1	E132	S-2	8	150	120	158	1.05
E19-2	E127	S-2	8	150	119	159	1.06
E19-3	E127	S-2	8	150	94	161	1.07
E19-4	E127	S-2	8	175	533	186	1.06
E19-5	E127	S-2	8	175	47	176	1.01
<b>SUPPLY</b>				<b>800</b>		<b>840</b>	<b>1.05</b>
RE19-1	E127	R-5	14	800	678	815	1.02
RE19-2							
<b>RETURN</b>				<b>800</b>		<b>815</b>	<b>1.02</b>

NOTES:

**HP DESIGN IS 600 CFM, SGRD TOTAL IS 800 CFM.**



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP E1-10

Area: E131

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-064
Serial Num	224611414

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1.0
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1800	1857
Fan Speed		1950
RA CFM	1800	1834
RL Voltage	460	484/482/484
RL Amperage	6	3.0/3.1/3.0
Suction ESP		-0.21"
Discharge ESP		0.01"
Total ESP	-	0.22"
Brake HP	-	0.51

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
E110-1	E128	S-2	8	275	360	284	1.03
E110-2	E129	S-1	6	75	84	80	1.07
E110-3	E134	S-1	6	75	87	77	1.03
E110-4	E125	S-1	6	75	52	81	1.08
E110-5	E128	S-2	8	275	282	285	1.04
E110-6	E128	S-2	8	275	296	283	1.03
E110-7	E128	S-2	8	275	296	279	1.01
E110-8	E128	S-2	8	275	279	283	1.03
E110-9	E128	S-2	8	200	99	205	1.03
<b>SUPPLY</b>				<b>1800</b>		<b>1857</b>	<b>1.03</b>
RE110-1	E128	R-5	14	600	785	615	1.03
RE110-1	E128	R-5	14	600	522	619	1.03
RE110-1	E128	R-5	14	600	478	610	1.02
<b>RETURN</b>				<b>1800</b>		<b>1844</b>	<b>1.02</b>

NOTES:

HP DESIGN IS 2000 CFM, SGRD TOTAL IS 1800 CFM.



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP F1-1

Area: F103

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-038
Serial Num	224511536

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	1100	1133
Fan Speed	-	1200
OA CFM	100	104
RA CFM	1000	1064
RL Voltage	460	487/486/483
RL Amperage	3.2	1.8/1.7/1.8
Suction ESP	-	0.58"
Discharge ESP	-	0.13"
Total ESP	-	0.71"
Brake HP	-	0.28

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F11-1	F101	S-1	6	50	57	52	1.04
F11-2	F100	S-1	6	50	56	55	1.10
F11-4	F104	S-3	10	300	341	306	1.02
F11-5	F104	S-3	10	350	375	359	1.03
F11-6	F104	S-3	10	350	375	361	1.03
<b>SUPPLY</b>				<b>1100</b>		<b>1133</b>	<b>1.03</b>
RF11-1	E120	R-2	8	300	250	275	0.92
RF11-2	F104	R-5	14	800	779	789	0.99
<b>RETURN</b>				<b>1100</b>		<b>1064</b>	<b>0.97</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP F1-2**

**Area: F106**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611430

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1615
Fan Speed	-	1475
RA CFM	1600	1595
RL Voltage	460	493/493/489
RL Amperage	6	1.8/1.8/1.7
Suction ESP	-	-0.45"
Discharge ESP	-	0.04"
Total ESP	-	0.49"
Brake HP	-	0.30

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F12-1	F107	S-3	10	250	395	255	1.02
F12-2	F107	S-3	10	275	0	276	1.00
F12-3	F107	S-3	10	275	0	275	1.00
F12-4	F105	S-3	10	250	475	256	1.02
F12-5	F105	S-3	10	275	387	276	1.00
F12-6	F105	S-3	10	275	394	277	1.01
<b>SUPPLY</b>				<b>1600</b>		<b>1615</b>	<b>1.01</b>
RF12-1	F105	R-5	14	800	1034	809	1.01
RF12-2	F107	R-5	14	800	617	786	0.98
<b>RETURN</b>				<b>1600</b>		<b>1595</b>	<b>1.00</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP F1-3

Area: F112

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611428

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1645
Fan Speed	-	1525
RA CFM	1600	1613
RL Voltage	460	488/485/488
RL Amperage	6	2.1/2.2/2.1
Suction ESP	-	-0.61"
Discharge ESP	-	0.05"
Total ESP	-	0.66"
Brake HP	-	0.35

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F13-1	F111	S-3	10	250	360	261	1.04
F13-2	F111	S-3	10	250	94	256	1.02
F13-3	F111	S-3	10	250	272	251	1.00
F13-4	F113	S-3	10	250	76	261	1.04
F13-5	F113	S-3	10	250	246	258	1.03
F13-6	F113	S-3	10	250	274	257	1.03
F13-7	F114	S-1	6	100	61	101	1.01
<b>SUPPLY</b>				<b>1600</b>		<b>1645</b>	<b>1.03</b>
RF13-1	F113	R-5	14	800	76	815	1.02
RF13-2	F111	R-5	14	800	1012	798	1.00
<b>RETURN</b>				<b>1600</b>		<b>1613</b>	<b>1.01</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP F1-4

Area: F109

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611431

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1621
Fan Speed	-	1475
RA CFM	1600	1577
RL Voltage	460	492/492/488
RL Amperage	6	2.1/2.1/1.9
Suction ESP	-	-0.65"
Discharge ESP	-	0.05"
Total ESP	-	0.70"
Brake HP	-	0.33

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
F14-1	F108	S-3	10	250	461	261	1.04
F14-2	F108	S-3	10	275	351	279	1.01
F14-3	F108	S-3	10	275	432	276	1.00
F14-4	F110	S-3	10	250	273	251	1.00
F14-5	F110	S-3	10	275	54	276	1.00
F14-6	F110	S-3	10	275	55	278	1.01
<b>SUPPLY</b>				<b>1600</b>		<b>1621</b>	<b>1.01</b>
RF14-1	F110	R-5	14	800	615	792	0.99
RF14-2	F108	R-5	14	800	852	785	0.98
<b>RETURN</b>				<b>1600</b>		<b>1577</b>	<b>0.99</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C2-1

Area: C203

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-038
Serial Num	

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	0.5
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	3.2

Test Data		
	Design	Actual
SA CFM	1200	1229
Fan Speed		1250
RA CFM	1200	1149
RL Voltage	460	465/466/468
RL Amperage	3.2	1.6/1.5/1.6
Suction ESP		-0.41"
Discharge ESP		0.08"
Total ESP	-	0.49"
Brake HP	-	0.25

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C21-1	SA200	S-6	12X8	300	210	320	1.07
C21-2	C202	S-1	6	100	130	100	1.00
C21-3	C205	S-3	10	275	280	277	1.01
C21-4	C205	S-3	10	275	301	278	1.01
C21-5	C205	S-3	10	250	290	254	1.02
<b>SUPPLY</b>				<b>1200</b>		<b>1229</b>	<b>1.02</b>
RC21-1	C202	R-1	6	100	183	94	0.94
RC21-2	SA200	R-7	12X6	300	271	280	0.93
RC21-3	C205	R-5	14	800	682	775	0.97
<b>RETURN</b>				<b>1200</b>		<b>1149</b>	<b>0.96</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C2-1**

**Area: C203**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-018
Serial Num	224310549

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.125
Motor Rpm	1020
Phase	1
Voltage (rated)	265
Amperage (rated)	0.9

Test Data		
	Design	Actual
SA CFM	600	678
Fan Speed	-	LOW
RA CFM	600	660
RL Voltage	265	275
RL Amperage	0.9	0.6
Suction ESP	-	-0.23"
Discharge ESP	-	0.14"
Total ESP	-	0.37"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C22-1	C204	S-3	10	300	367	340	1.13
C22-2	C204	S-3	10	300	345	338	1.13
<b>SUPPLY</b>				<b>600</b>		<b>678</b>	<b>1.13</b>
RC22-1	C204	R-4	12	600	713	660	1.10
<b>RETURN</b>				<b>600</b>		<b>660</b>	<b>1.10</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C2-3**

**Area: C207**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611435

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1638
Fan Speed	-	1500
RA CFM	1600	1576
RL Voltage	460	475/470/475
RL Amperage	6	1.8/1.6/1.8
Suction ESP	-	-0.35"
Discharge ESP	-	0.05"
Total ESP	-	0.40"
Brake HP	-	0.28

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C23-1	C206	S-3	10	250	308	255	1.02
C23-2	C206	S-3	10	275	288	278	1.01
C23-3	C206	S-3	10	275	267	283	1.03
C23-4	C208	S-3	10	250	344	260	1.04
C23-5	C208	S-3	10	275	275	282	1.03
C23-6	C208	S-3	10	275	284	281	1.02
<b>SUPPLY</b>				<b>1600</b>		<b>1639</b>	<b>1.02</b>
RC23-1	C206	R-5	14	800	690	792	0.99
RC23-2	C208	R-5	14	800	752	784	0.98
<b>RETURN</b>				<b>1600</b>		<b>1576</b>	<b>0.99</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C2-4

Area: C210

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611437

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1646
Fan Speed	-	1550
RA CFM	1600	1565
RL Voltage	460	470/466/470
RL Amperage	6	1.9/1.7/1.9
Suction ESP	-	-0.35"
Discharge ESP	-	0.08"
Total ESP	-	0.43"
Brake HP	-	0.31

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C24-1	C209	S-3	10	250	46	261	1.04
C24-2	C209	S-3	10	275	49	279	1.01
C24-3	C209	S-3	10	275	366	281	1.02
C24-4	C211	S-3	10	250	386	261	1.04
C24-5	C211	S-3	10	275	343	283	1.03
C24-6	C211	S-3	10	275	415	281	1.02
<b>SUPPLY</b>				<b>1600</b>		<b>1646</b>	<b>1.03</b>
RC24-1	C209	R-5	14	800	700	784	0.98
RC24-2	C211	R-5	14	800	815	781	0.98
<b>RETURN</b>				<b>1600</b>		<b>1565</b>	<b>0.98</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C2-5

Area: C231

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310539

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	300	361
Fan Speed	-	LOW
RA CFM	300	341
RL Voltage	265	274
RL Amperage	0.7	0.4
Suction ESP	-	-0.23"
Discharge ESP	-	0.15"
Total ESP	-	0.38"
Brake HP	-	0.08

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C25-1	C228	S-1	6	50	96	60	1.20
C25-2	C227	S-1	6	50	108	62	1.24
C25-3	C219	S-1	6	100	89	118	1.18
C25-4	C232	S-2	8	100	145	121	1.21
<b>SUPPLY</b>				<b>300</b>		<b>361</b>	<b>1.20</b>
RC25-1	C219	R-1	6	100	130	112	1.12
RC25-2	C232	R-1	6	200	240	229	1.15
<b>RETURN</b>				<b>300</b>		<b>341</b>	<b>1.14</b>



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# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: HEAT PUMP C2-6

Area: C231

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-012
Serial Num	224310538

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.14
Motor Rpm	1625
Phase	1
Voltage (rated)	265
Amperage (rated)	0.7

Test Data		
	Design	Actual
SA CFM	400	402
Fan Speed	-	LOW
RA CFM	400	398
RL Voltage	265	273
RL Amperage	0.7	0.3
Suction ESP	-	-0.08"
Discharge ESP	-	0.03"
Total ESP	-	0.11"
Brake HP	-	0.06

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C26-1	C223	S-4	12	400	480	402	1.01
<b>SUPPLY</b>				<b>400</b>		<b>402</b>	<b>1.01</b>
RC26-1	C223	R-4	12	400	472	398	1.00
<b>RETURN</b>				<b>400</b>		<b>398</b>	<b>1.00</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C2-7**

**Area: C218**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611440

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1640
Fan Speed	-	1500
RA CFM	1800	1569
RL Voltage	460	478/470/473
RL Amperage	6	1.9/1.7/1.9
Suction ESP	-	-0.39"
Discharge ESP	-	0.06"
Total ESP	-	0.45"
Brake HP	-	0.31

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C27-1	C217	S-2	8	200	286	203	1.02
C27-2	C221	S-2	8	150	168	156	1.04
C27-3	C217	S-3	10	250	273	256	1.02
C27-4	C217	S-3	10	250	264	255	1.02
C27-5	C220	S-1	6	50	114	52	1.04
C27-6	C222	S-2	8	200	227	209	1.05
C27-7	C222	S-3	10	250	167	257	1.03
C27-8	C222	S-3	10	250	288	252	1.01
<b>SUPPLY</b>				<b>1600</b>		<b>1640</b>	<b>1.03</b>
RC27-1	C217	R-5	14	700	747	689	0.98
RC27-2	C220	R-1	6	50	45	48	0.96
RC27-3	C221	R-2	8	150	143	145	0.97
RC27-4	C222	R-5	14	700	518	687	0.98
<b>RETURN</b>				<b>1600</b>		<b>1569</b>	<b>0.98</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C2-8**

**Area: C215**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TE-049
Serial Num	224611436

Motor Data	
Motor MFG	PERFECT SPEED
Horsepower	1
Motor Rpm	NL
Phase	3
Voltage (rated)	460
Amperage (rated)	6

Test Data		
	Design	Actual
SA CFM	1600	1668
Fan Speed	-	1500
RA CFM	1600	1579
RL Voltage	460	478/481/481
RL Amperage	6	2.2/2.1/2.1
Suction ESP	-	-0.48"
Discharge ESP	-	0.04"
Total ESP	-	0.52"
Brake HP	-	0.36

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C28-1	C216	S-3	10	250	304	263	1.05
C28-2	C216	S-3	10	275	287	283	1.03
C28-3	C216	S-3	10	275	219	288	1.05
C28-4	C214	S-3	10	250	312	262	1.05
C28-5	C214	S-3	10	275	326	284	1.03
C28-6	C214	S-3	10	275	273	288	1.05
<b>SUPPLY</b>				<b>1600</b>		<b>1668</b>	<b>1.04</b>
RC28-1	C216	R-5	14	800	786	794	0.99
RC28-2	C214	R-5	14	800	736	785	0.98
<b>RETURN</b>				<b>1600</b>		<b>1579</b>	<b>0.99</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: HEAT PUMP C2-9**

**Area: C215**

Unit Data	
MFG	CLIMATEMASTER
Model Num	TS-018
Serial Num	224411031

Motor Data	
Motor MFG	US MOTORS
Horsepower	0.125
Motor Rpm	1020
Phase	1
Voltage (rated)	265
Amperage (rated)	0.9

Test Data		
	Design	Actual
SA CFM	600	654
Fan Speed	-	LOW
OA CFM	150	147
RA CFM	450	507
RL Voltage	265	277
RL Amperage	0.9	0.5
Suction ESP	-	-0.18"
Discharge ESP	-	0.15"
Total ESP	-	0.33"
Brake HP	-	0.07

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
C29-1	C113	S-2	8	150	182	164	1.09
C29-2	C213	S-2	8	150	236	164	1.09
C29-3	SB200	S-6		300	279	326	1.09
<b>SUPPLY</b>				<b>600</b>		<b>654</b>	<b>1.09</b>
RC29-1	C113	R-2	8	115	201	128	1.11
RC29-2	SB200	R3	10	220	0	252	1.15
RC29-3	C213	R-2	8	115	250	127	1.10
<b>RETURN</b>				<b>450</b>		<b>507</b>	<b>1.13</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: DOAS-1

Area: BLDG VENTILATION

### Supply Side

Unit Data	
Manufacturer	ADDISON
Model Number	PROH
Serial Number	220109701001
Configuration	VERTICAL
No. Pre Filters / Size	12 / 25x25x2
No. Pre Filters / Size	8 / 18x20x2

### Motor Data X

Motor MFG / Frame	Baldor / 215T
Horsepower / RPM	10 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	12.4

### Test Data

	Design	Actual
Total CFM	12500	11254
Fan RPM	2164	2448
VFD Speed	73.1	83 HZ
RL Voltage	460	477 VFD
RL Amperage	12.4	12.2 VFD
Motor B.H.P.	14.99	19.67

### Performance Data

	Design	Actual
Suction S.P.		3.1
Discharge S.P.		1.7
Total SP	5.13	4.8
CC Air P.D.	0.48	* combined
HEAT WHEEL	1.5	2.97 *
Pre Filters P.D.	0.40	* combined
Total ESP	2.5	1.83
System Set Point		2.0"

NOTES: Connected Load Supply CFM  
31315

### Return Side

Unit Data	
Manufacturer	ADDISON
Model Number	PROH
Serial Number	220109701001
Configuration	VERTICAL
No. Pre Filters / Size	8 / 18X25X2

### Motor Data X

Motor MFG / Frame	Baldor / 254T
Horsepower / RPM	15 / 1765
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.6

### Test Data

	Design	Actual
Total CFM	11250	9426
Fan RPM	1602	1936
VFD Speed	53.4	66 HZ
RL Voltage	460	477 VFD
RL Amperage	18.6	17.8 VFD
Motor B.H.P.	9.66	14.35

### Performance Data

	Design	Actual
Suction S.P.		3.62
Discharge S.P.		0.44
Total SP	3.02	4.06
HEAT WHEEL	1.34	2.67*
Pre Filters P.D.	0.40	* combined
Total ESP	1.0	1.39

NOTES: Connected Load Exhaust  
CFM 26635



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: DOAS-2

Area: BLDG VENTILATION

### Supply Side

Unit Data	
Manufacturer	ADDISON
Model Number	PROH
Serial Number	220109701002
Configuration	VERTICAL
No. Pre Filters / Size	12 / 25x25x2
No. Pre Filters / Size	8 / 18x20x2

### Motor Data X

Motor MFG / Frame	Baldor / 215T
Horsepower / RPM	10 / 1770
Rated Volts / Phase	460 / 3
Rated Amperage / SF	12.4

### Test Data

	Design	Actual
Total CFM	12500	11254
Fan RPM	2164	2448
VFD Speed	73.1	83 HZ
RL Voltage	460	477 VFD
RL Amperage	12.4	12.2 VFD
Motor B.H.P.	14.99	19.67

### Performance Data

	Design	Actual
Suction S.P.		2.95
Discharge S.P.		1.78
Total SP	5.13	4.73
CC Air P.D.	0.48	* combined
HEAT WHEEL	1.5	2.82 *
Pre Filters P.D.	0.40	* combined
Total ESP	2.5	1.91
System Set Point		2.0"

NOTES: Connected Load Supply CFM  
31315

### Return Side

Unit Data	
Manufacturer	ADDISON
Model Number	PROH
Serial Number	220109701002
Configuration	VERTICAL
No. Pre Filters / Size	8 / 18X25X2

### Motor Data X

Motor MFG / Frame	Baldor / 254T
Horsepower / RPM	15 / 1765
Rated Volts / Phase	460 / 3
Rated Amperage / SF	18.6

### Test Data

	Design	Actual
Total CFM	11250	9426
Fan RPM	1602	1936
VFD Speed	53.4	66 HZ
RL Voltage	460	477 VFD
RL Amperage	18.6	17.8 VFD
Motor B.H.P.	9.66	14.35

### Performance Data

	Design	Actual
Suction S.P.		3.35
Discharge S.P.		0.48
Total SP	3.02	3.83
HEAT WHEEL	1.34	2.60 *
Pre Filters P.D.	0.40	* combined
Total ESP	1.0	1.23

NOTES: Connected Load Exhaust  
CFM 26635



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV's**

Asset	Area Served	Type	Size	Design Max CFM	Actual Max CFM	Design Min CFM	Actual Min CFM	Ak (max)
OA1-1	A125	OAV-05	5	145	146	60	62	381
OA1-2	A118	OAV-05	5	60	60	60	61	533
OA1-5	A100	OAV-08	8	515	519	125	125	1041
OA1-9	A126	OAV-08	8	375	377	125	128	781
OA1-10	A129	OAV-05	5	80	81	60	62	404
OA1-11	A128	OAV-08	8	375	377	125	122	806
OA1-12	A130	OAV-12	12	1225	1219	300	305	2298
OA1-13	A132	OAV-08	8	450	448	125	127	838
OB1-1A	B112	OAV-08	8	430	432	125	125	759
OB1-1B	B108	OAV-08	8	430	428	125	127	774
OB1-2A	B107	OAV-08	8	400	386	125	124	777
OB1-2B	B105	OAV-08	8	360	359	125	125	713
OB1-3A	B104	OAV-08	8	360	368	125	128	810
OB1-3B	B101	OAV-08	8	390	394	125	125	835
OB1-4A	B113	OAV-08	8	400	402	125	127	814
OB1-4B	B115	OAV-08	8	360	363	125	130	820
OB1-5A	B116	OAV-08	8	350	350	125	129	767
OB1-5B	B118	OAV-08	8	350	352	125	124	778
OB1-6A	B121	OAV-05	5	190	182	60	62	416
OB1-6B1	B119	OAV-05	5	175	172	60	60	418
OB1-6B2	B124	OAV-05	5	85	83	60	55	525
OC1-1	C104	OAV-05	5	180	175	60	58	471
OC1-2	C105	OAV-08	8	400	392	125	122	739
OC1-3A	C106	OAV-08	8	360	358	125	125	761
OC1-3B	C108	OAV-08	8	360	361	125	128	777
OC1-4A	C109	OAV-08	8	360	360	125	124	752
OC1-4B	C111	OAV-08	8	360	348	125	125	796
OC1-5	HALL	OAV-05	5	175	159	60	61	426
OC1-6	C123	OAV-05	5	85	86	60	60	406
OC1-7A	C122	OAV-08	8	430	425	125	128	840
OC1-7B	C117	OAV-08	8	430	418	125	125	787
OC1-8A	C116	OAV-08	8	360	346	125	126	757
OC1-8B	C114	OAV-08	8	360	362	125	127	851
				11365				



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV's**

Asset	Area Served	Type	Size	Design Max CFM	Actual Max CFM	Design Min CFM	Actual Min CFM	Ak (max)
OD1-1	D109	OAV-10	10	875	878	210	215	1333
OD1-2	D110	OAV-06	6	145	145	65	66	423
OD1-3	D100	OAV-08	8	650	646	125	125	868
OD1-4A	D102	OAV-16	16	2950	2941	575	584	3948
OD1-4B	D102	OAV-16	16	2950	2939	575	576	3892
OE1-1	E105	OAV-08	8	485	487	125	125	738
OE1-2	E106	OAV-08	8	475	479	125	126	740
OE1-3	E103	OAV-05	5	135	134	60	61	380
OE1-5	E118	OAV-08	8	375	368	125	128	1002
OE1-6	E113	OAV-08	8	355	350	125	130	910
OE1-7	E115	OAV-08	8	355	353	125	126	943
OE1-8	E122	OAV-16	16	3440	3484	575	580	3957
OE1-9	E127	OAV-08	8	260	258	125	128	798
OF1-1	F104	OAV-08	8	385	390	125	126	818
OF1-2A	F105	OAV-08	8	360	352	125	127	834
OF1-2B	F107	OAV-08	8	360	355	125	124	782
OF1-3A	F113	OAV-08	8	360	361	125	125	798
OF1-3B	F111	OAV-08	8	360	352	125	126	768
OF1-4A	F110	OAV-08	8	360	354	125	125	808
OF1-4B	F108	OAV-08	8	360	359	125	127	786
OC2-1	C205	OAV-08	8	360	203	125	124	841
OC2-2	C204	OAV-05	5	185	104	60	62	457
OC2-3A	C206	OAV-08	8	360	241	125	122	706
OC2-3B	C208	OAV-08	8	360	235	125	129	743
OC2-4A	C209	OAV-08	8	360	225	125	130	960
OC2-4B	C211	OAV-08	8	360	228	125	126	958
OC2-5	C219	OAV-05	5	175	107	60	62	350
OC2-6	C223	OAV-06	6	65	64	65	64	453
OC2-7A	C222	OAV-08	8	430	262	125	128	762
OC2-7B	C217	OAV-08	8	430	222	125	125	828
OC2-8A	C216	OAV-08	8	360	182	125	126	851
OC2-8B	C214	OAV-08	8	360	222	125	127	862
OC2-9	C215	OAV-05	5	150	150	60	61	375
19950								
These VAVs were put at Min CFM values to test with the diversity in system and C2 area was still low on CFM								

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV SGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	FINAL CFM	% to design
OA11-1	A125	S-1	6	30	30	1.00
OA11-2	HP A1-1	DUCT		30	29	0.97
OA11-3	A114	S-1	6	15	16	1.07
OA11-4	HP A1-3	DUCT		70	71	1.01
<b>OA1-1</b>				<b>145</b>	<b>146</b>	<b>1.01</b>
OA12-1	A118	S-1	6	60	60	1.00
<b>OA1-2</b>				<b>60</b>	<b>60</b>	<b>1.00</b>
OA15-1	A100	S-12	16X8	250	246	0.98
OA15-2	A001	S-12	16X8	25	27	1.08
OA15-3	HP A1-8	DUCT		80	82	1.03
OA15-4	HP A1-6	DUCT		55	56	1.02
OA15-5	HP A1-7	DUCT		105	108	1.03
<b>OA1-5</b>				<b>515</b>	<b>519</b>	<b>1.01</b>
OA19-1	A126	S-3	10	375	377	1.01
<b>OA1-9</b>				<b>375</b>	<b>377</b>	<b>1.01</b>
OA110-1	A129	S-1	6	50	51	1.02
OA110-2	A129	S-1	6	30	30	1.00
<b>OA1-10</b>				<b>80</b>	<b>81</b>	<b>1.01</b>
OA111-1	A128	S-3	10	375	377	1.01
<b>OA1-11</b>				<b>375</b>	<b>377</b>	<b>1.01</b>
OA112-1	A130	S-2	8	175	170	0.97
OA112-2	A130	S-2	8	175	175	1.00
OA112-3	A130	S-2	8	125	128	1.02
OA112-4	A130	S-2	8	175	172	0.98
OA112-5	A130	S-5	10X6	200	196	0.98
OA112-6	A130	S-2	8	175	175	1.00
OA112-7	A130	S-5	10X6	200	203	1.02
<b>OA1-12</b>				<b>1225</b>	<b>1219</b>	<b>1.00</b>
OA113-1	A132	S-4	12	450	448	1.00
<b>OA1-13</b>				<b>450</b>	<b>448</b>	<b>1.00</b>

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV SGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	FINAL CFM	% to design
OB11A-1	B112	S-4	12	430	432	1.00
<b>OB1-1A</b>				<b>430</b>	<b>432</b>	<b>1.00</b>
OB11B-1	B108	S-4	12	430	428	1.00
<b>OB1-1B</b>				<b>430</b>	<b>428</b>	<b>1.00</b>
OB12A-1	B107	S-3	10	360	386	1.07
<b>OB1-2A</b>				<b>360</b>	<b>359</b>	<b>1.00</b>
OB12B-1	B105	S-3	10	360	368	1.02
<b>OB1-2B</b>				<b>360</b>	<b>368</b>	<b>1.02</b>
OB13A-1	B104	S-3	10	360	368	1.02
<b>OB1-3A</b>				<b>360</b>	<b>368</b>	<b>1.02</b>
OB13B-1	B101	S-3	10	390	394	1.01
<b>OB1-3B</b>				<b>390</b>	<b>394</b>	<b>1.01</b>
OB14A-1	B113	S-3	10	400	402	1.01
<b>OB1-4A</b>				<b>400</b>	<b>402</b>	<b>1.01</b>
OB14B-1	B115	S-3	10	360	363	1.01
<b>OB1-4B</b>				<b>360</b>	<b>363</b>	<b>1.01</b>
OB15A-1	B116	S-3	10	350	350	1.00
<b>OB1-5A</b>				<b>350</b>	<b>350</b>	<b>1.00</b>
OB15B-1	B118	S-3	10	350	352	1.01
<b>OB1-5B</b>				<b>350</b>	<b>352</b>	<b>1.01</b>
OB16A-1	B121	S-2	8	190	182	0.96
<b>OB1-6A</b>				<b>190</b>	<b>182</b>	<b>0.96</b>
<b>OB16B1-1</b>	B119	S-1	6	25	26	1.04
<b>OB16B1-2</b>	HALL	S-2	8	150	146	0.97
<b>OB1-6B1</b>				<b>175</b>	<b>172</b>	<b>0.98</b>
OB16B-1	B124	S-2	8	85	83	0.98
<b>OB1-6B2</b>				<b>85</b>	<b>83</b>	<b>0.98</b>

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV SGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	FINAL CFM	% to design
OC11-1	C104	S-2	8	180	177	0.98
<b>OC1-1</b>				<b>180</b>	<b>177</b>	<b>1.00</b>
OC12-1	C105	S-3	10	400	392	0.98
<b>OC1-2</b>				<b>400</b>	<b>392</b>	<b>0.98</b>
OC13A-1	C106	S-3	10	360	358	0.99
<b>OC1-3A</b>				<b>360</b>	<b>358</b>	<b>0.99</b>
OC13B-1	C108	S-3	10	360	361	1.00
<b>OC1-3B</b>				<b>360</b>	<b>361</b>	<b>1.00</b>
OC14A-1	C109	S-3	10	360	360	1.00
<b>OC1-4A</b>				<b>360</b>	<b>360</b>	<b>1.00</b>
OC14B-1	C111	S-3	10	360	348	0.97
<b>OC1-4B</b>				<b>360</b>	<b>348</b>	<b>0.97</b>
OC15-1	HALL	S-1	6	25	22	0.88
OC15-2	HALL	S-2	8	150	137	0.91
<b>OC1-5</b>				<b>175</b>	<b>159</b>	<b>0.91</b>
OC16-1	C123	S-1	6	85	86	1.01
<b>OC1-6</b>				<b>85</b>	<b>86</b>	<b>1.01</b>
OC17A-1	C122	S-4	12	430	425	0.99
<b>OC1-7A</b>				<b>430</b>	<b>425</b>	<b>0.99</b>
OC17B-1	C117	S-4	12	430	418	0.97
<b>OC1-7B</b>				<b>430</b>	<b>418</b>	<b>0.97</b>
OC17A-1	C116	S-3	10	360	346	0.96
<b>OC1-8A</b>				<b>360</b>	<b>346</b>	<b>0.96</b>
OC18B-1	C114	S-3	10	360	362	1.01
<b>OC1-8B</b>				<b>360</b>	<b>362</b>	<b>1.01</b>
OD11-1	D109	S-8	18X18	875	878	1.00
<b>OD1-1</b>				<b>875</b>	<b>878</b>	<b>1.00</b>

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV SGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	FINAL CFM	% to design
OD12-1	D110	S-2	8	100	98	0.98
OD12-2	D131	S-1	6	15	16	1.07
OD12-3	D132	S-1	6	15	16	1.07
OD12-4	D133	S-1	6	15	15	1.00
<b>OD1-2</b>				<b>145</b>	<b>145</b>	<b>1.00</b>
OD13-1	D101	S-3	10	250	233	0.93
OD13-2	D100	S-4	12	400	413	1.03
<b>OD1-3</b>				<b>650</b>	<b>646</b>	<b>0.99</b>
OD14A-1	D102	S-11	24X8	740	735	0.99
OD14A-2	D102	S-11	24X8	740	742	1.00
OD14A-3	D102	S-11	24X8	740	728	0.98
OD14A-4	D102	S-11	24X8	740	736	0.99
<b>OD1-4A</b>				<b>2960</b>	<b>2941</b>	<b>0.99</b>
OD14B-1	D102	S-11	24X8	740	723	0.98
OD14B-2	D102	S-11	24X8	740	738	1.00
OD14B-3	D102	S-11	24X8	740	733	0.99
OD14B-4	D102	S-11	24X8	740	745	1.01
<b>OD1-4B</b>				<b>2960</b>	<b>2939</b>	<b>0.99</b>
OE11-1	E105	S-4	12	485	487	1.00
<b>OE1-1</b>				<b>485</b>	<b>487</b>	<b>1.00</b>
OE12-1	E106	S-4	12	475	479	1.01
<b>OE1-2</b>				<b>475</b>	<b>479</b>	<b>1.01</b>
OE13-1	HP E1-4	DUCT		75	74	0.99
OE13-2	HP E1-3	DUCT		60	60	1.00
<b>OE1-3</b>				<b>135</b>	<b>134</b>	<b>0.99</b>
OE15-1	E118	S-3	10	375	368	0.98
<b>OE1-5</b>				<b>375</b>	<b>368</b>	<b>0.98</b>
OE16-1	E118	S-3	10	355	350	0.99
<b>OE1-6</b>				<b>355</b>	<b>350</b>	<b>0.99</b>
OE17-1	E115	S-3	10	355	353	0.99
<b>OE1-7</b>				<b>355</b>	<b>353</b>	<b>0.99</b>

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV SGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	FINAL CFM	% to design
OE18-1	E121	S-7	20X8	430	422	0.98
OE18-2	E121	S-7	20X8	430	428	1.00
OE18-3	E121	S-7	20X8	430	435	1.01
OE18-4	E121	S-7	20X8	430	444	1.03
OE18-5	E121	S-7	20X8	430	446	1.04
OE18-6	E121	S-7	20X8	430	425	0.99
OE18-7	E121	S-7	20X8	430	432	1.00
OE18-8	E121	S-7	20X8	430	452	1.05
<b>OE1-8</b>				<b>3440</b>	<b>3484</b>	<b>1.01</b>
OE19-1	E127	S-3	10	260	258	0.99
<b>OE1-9</b>				<b>260</b>	<b>258</b>	<b>0.99</b>
OF11-1	F104	S-3	10	385	390	1.01
<b>OF1-1</b>				<b>385</b>	<b>390</b>	<b>1.01</b>
OF12A-1	F105	S-3	10	360	352	0.98
<b>OF1-2A</b>				<b>360</b>	<b>352</b>	<b>0.98</b>
OF12B-1	F107	S-3	10	360	355	0.99
<b>OF1-2B</b>				<b>360</b>	<b>355</b>	<b>0.99</b>
OF13A-1	F113	S-3	10	360	361	1.00
<b>OF1-3A</b>				<b>360</b>	<b>361</b>	<b>1.00</b>
OF13B-1	F111	S-3	10	360	352	0.98
<b>OF1-3B</b>				<b>360</b>	<b>352</b>	<b>0.98</b>
OF14A-1	F110	S-3	10	360	354	0.98
<b>OF1-4A</b>				<b>360</b>	<b>354</b>	<b>0.98</b>
OF14B-1	F108	S-3	10	360	359	1.00
<b>OF1-4B</b>				<b>360</b>	<b>359</b>	<b>1.00</b>
OC21-1	C205	S-3	10	360	203	0.56
<b>OC2-1</b>				<b>360</b>	<b>203</b>	<b>0.56</b>
OC22-1	C204	S-2	8	185	104	0.56
<b>OC2-2</b>				<b>185</b>	<b>104</b>	<b>0.56</b>

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: OAV SGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	FINAL CFM	% to design
OC21-1	C205	S-3	10	360	203	0.56
<b>OC2-1</b>				<b>360</b>	<b>203</b>	<b>0.56</b>
OC22-1	C204	S-2	8	185	104	0.56
<b>OC2-2</b>				<b>185</b>	<b>104</b>	<b>0.56</b>
OC23A-1	C206	S-3	10	360	241	0.67
<b>OC2-3A</b>				<b>360</b>	<b>241</b>	<b>0.67</b>
OC23B-1	C208	S-3	10	360	235	0.65
<b>OC2-3B</b>				<b>360</b>	<b>235</b>	<b>0.65</b>
OC24A-1	C209	S-3	10	360	225	0.63
<b>OC2-4A</b>				<b>360</b>	<b>225</b>	<b>0.63</b>
OC24B-1	C211	S-3	10	360	228	0.63
<b>OC2-4B</b>				<b>360</b>	<b>228</b>	<b>0.63</b>
OC25-1	C219	S-1	6	25	15	0.60
OC25-2	C232	S-2	8	150	92	0.61
<b>OC2-5</b>				<b>175</b>	<b>107</b>	<b>0.61</b>
OC26-1	C223	S-1	6	65	64	0.98
<b>OC2-6</b>				<b>65</b>	<b>64</b>	<b>0.98</b>
OC27A-1	C222	S-4	12	430	262	0.61
<b>OC2-7A</b>				<b>430</b>	<b>262</b>	<b>0.61</b>
OC27B-1	C217	S-4	12	430	222	0.52
<b>OC2-7B</b>				<b>430</b>	<b>222</b>	<b>0.52</b>
OC28A-1	C216	S-3	10	360	182	0.51
<b>OC2-8A</b>				<b>360</b>	<b>182</b>	<b>0.51</b>
OC28B-1	C214	S-3	10	360	222	0.62
<b>OC2-8B</b>				<b>360</b>	<b>222</b>	<b>0.62</b>
OC29-1	HP C2-9	DUCT	10	150	150	1.00
<b>OC2-9</b>				<b>150</b>	<b>150</b>	<b>1.00</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: DOAS-1&2 EGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
DE-1	F113	E-3	10	300	385	205	0.68
DE-2	F111	E-3	10	300	0	216	0.72
DE-3	F104	E-3	10	300	0	211	0.70
DE-4	F105	E-3	10	300	0	208	0.69
DE-5	F110	E-3	10	300	0	218	0.73
DE-6	F108	E-3	10	300	0	211	0.70
DE-7	F107	E-3	10	300	0	219	0.73
DE-8	E128	E-6	16	1200	112	815	0.68
DE-9	E128	E-6	16	1200	96	956	0.80
DE-10	E118	E-3	10	300	14	206	0.69
DE-11	E115	E-3	10	300	631	210	0.70
DE-12	E113	R-12	24X10	300	110	215	0.72
DE-13	A132	E-3	10	300	408	245	0.82
DE-14	A130	E-7	42X12	1600	1953	1032	0.65
DE-15	C104	E-1	6	100	173	115	1.15
DE-16	C122	E-3	10	300	0	210	0.70
DE-17	C105	E-3	10	300	380	216	0.72
DE-18	C106	E-3	10	300	326	209	0.70
DE-19	C117	E-3	10	300	230	215	0.72
DE-20	C108	E-3	10	300	254	215	0.72
DE-21	C116	E-3	10	300	204	220	0.73
DE-22	C109	E-3	10	300	186	210	0.70
DE-23	C114	E-3	10	300	173	217	0.72
DE-24	C111	E-3	10	300	185	213	0.71
DE-25	E106	E-3	10	375	649	270	0.72
DE-26	E105	E-3	10	775	1021	560	0.72
DE-27	B101	E-3	10	300	547	215	0.72
DE-28	B104	E-3	10	300	496	209	0.70
DE-29	B105	E-3	10	300	458	216	0.72
DE-30	B118	E-3	10	300	0	208	0.69
DE-31	B107	E-3	10	300	456	206	0.69
DE-32	B116	E-3	10	300	131	209	0.70
DE-33	B108	E-3	10	300	384	205	0.68
DE-34	B115	E-3	10	300	301	217	0.72
DE-35	B112	E-3	10	300	336	200	0.67
DE-36	B113	E-3	10	300	286	202	0.67
				<b>14250</b>		<b>10124</b>	<b>0.71</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: DOAS-1&2 EGRD's**

Asset	Area Served	Type	Size	DESIGN CFM	Prelim CFM	FINAL CFM	% to design
DE-37	E133	E-1	6	75	169	55	0.73
DE-38	E134	E-1	6	75	140	54	0.72
DE-39	F102	E-10	8X8	50	95	50	1.00
DE-40	F100	E-3	10	350	233	212	0.61
DE-41	F101	E-3	10	350	274	210	0.60
DE-42	C128	E-3	10	300	168	180	0.60
DE-43	C127	E-3	10	300	124	181	0.60
DE-44	A112	E-1	6	75	0	50	0.67
DE-45	A104	E-1	6	75	0	48	0.64
DE-46	A107	E-1	6	75	0	50	0.67
DE-47	C124	E-9	8X6	75	0	46	0.61
DE-48	C125	E-1	6	75	0	48	0.64
DE-49	C126	E-1	6	75	0	52	0.69
DE-50	C224	E-9	8X6	75	0	45	0.60
DE-51	C225	E-1	6	75	0	47	0.63
DE-52	C226	E-1	6	75	0	50	0.67
DE-53	C228	E-3	10	300	0	184	0.61
DE-54	C227	E-3	10	300	0	186	0.62
DE-55	B127	E-1	6	75	0	52	0.69
DE-56	B126	E-1	6	75	0	48	0.64
DE-57	B125	E-1	6	75	0	50	0.67
DE-58	B128	E-3	10	300	0	180	0.60
DE-59	B129	E-3	10	300	0	181	0.60
DE-60	A123	E-1	6	75	0	52	0.69
DE-61	A117	E-2	8	50	0	35	0.70
DE-62	D126	E-1	6	150	68	99	0.66
DE-63	D108	E-3	10	350	284	222	0.63
DE-64	D107	E-3	10	350	244	220	0.63
DE-65	D105	E-9	8X6	75	0	10	0.13
DE-66	D104	E-9	8X6	75	70	50	0.67
DE-67	D119	E-3	10	275	305	191	0.69
DE-68	D118	E-3	10	275	289	189	0.69
DE-69	D121	E-3	10	275	30	230	0.84
DE-70	D120	E-3	10	275	305	226	0.82
DE-71	D135	E-4	12	500	631	348	0.70
DE-72	D136	E-3	10	325	324	224	0.69
DE-73	D137	E-3	10	325	0	227	0.70
DE-74	D128	E-4	12	500	354	341	0.68
DE-75	D102	E-8	28X28	2600	2090	1820	0.70
				<b>10000</b>		<b>6688</b>	<b>0.67</b>





# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: EF B1-1

Area: B110 LAB EXHAUST

Unit Data	
MFG	GREENHECK
Model Num	G-140-VG
Serial Num	20894810
Type	CRE DNBLAST

Motor Data	
Motor MFG	VARIGREEN
Frame	NL
Horsepower	0.75
Motor Rpm	1750
Phase	1
Voltage (rated)	115
Amperage (rated)	8.8
Service Factor	1

Test Data		
	Design	Actual
CFM	2200	2063
Fan RPM	1225	10 ON DIAL
RL Voltage	115	119
RL Amperage	8.8	4.8
Suction ESP	-	
Total ESP	0.335	

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
EB11-1	B108	E-5	14	850	792	797	0.94
EB11-2	B112	E-5	14	850	721	792	0.93
EB11-3	B110	E-3	10	300	342	286	0.95
EB11-4	B109	E-2	8	200	197	188	0.94
<b>EGRD's</b>				<b>2200</b>		<b>2063</b>	<b>0.94</b>

NOTES:



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF B1-2**

**Area: B123 ELECTRICAL RM**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CSP-A1050-VG
<b>Serial Num</b>	149427793-003
<b>Type</b>	INLINE CABINET

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.33
<b>Motor Rpm</b>	1200
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	4.75
<b>Service Factor</b>	1

Test Data		
	Design	Actual
<b>CFM</b>	600	572
<b>Fan RPM</b>	772	10 ON DIAL
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	4.75	2.5
<b>Suction ESP</b>	-	0.06
<b>Total ESP</b>	0.15	0.06



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF C1-1**

**Area: C120 LAB EXHAUST**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	G-140-VG
<b>Serial Num</b>	20894808
<b>Type</b>	CRE DNBLAST

Test Data		
	Design	Actual
<b>CFM</b>	2050	2099
<b>Fan RPM</b>	1225	10 ON DIAL
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	8.8	4.5
<b>Suction ESP</b>	-	-0.28
<b>Total ESP</b>	0.335	0.28

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.75
<b>Motor Rpm</b>	1750
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	8.8
<b>Service Factor</b>	1

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
EB11-1	C120	E-2	8	175	0	181	1.03
EB11-2	C121	E-2	8	175	316	178	1.02
EB11-3	C122	E-4	12	850	896	871	1.02
EB11-4	C117	E-4	12	850	842	869	1.02
<b>EGRD's</b>				<b>2050</b>		<b>2099</b>	<b>1.02</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: EF C2-1

Area: C220 LAB EXHAUST

Unit Data	
MFG	GREENHECK
Model Num	G-140-VG
Serial Num	20894809
Type	CRE DNBLAST

Test Data		
	Design	Actual
CFM	2050	2088
Fan RPM	1225	10 ON DIAL
RL Voltage	115	117
RL Amperage	8.8	4.8
Suction ESP	-	-0.27
Total ESP	0.335	0.27

Motor Data	
Motor MFG	VARIGREEN
Frame	NL
Horsepower	0.75
Motor Rpm	1750
Phase	1
Voltage (rated)	115
Amperage (rated)	8.8
Service Factor	1

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
EC21-1	C220	E-2	8	200	235	210	1.05
EC21-2	C221	E-2	8	150	241	150	1.00
EC21-3	C222	E-4	12	850	802	862	1.01
EC21-4	C217	E-4	12	850	822	866	1.02
				<b>2050</b>		<b>2088</b>	<b>1.02</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF-2**

**Area: E101 KILN EXHAUST**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CUE-090-VG
<b>Serial Num</b>	20894813
<b>Type</b>	CRE UPBLAST

Test Data		
	Design	Actual
<b>CFM</b>	500	542
<b>Fan RPM</b>	1725	DD
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	1.5	1.3
<b>Suction ESP</b>		0.21
<b>Total ESP</b>	0.66	0.21

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.1
<b>Motor Rpm</b>	1725
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	1.5
<b>Service Factor</b>	1

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
EF2-1	E100	DUCT		500			0.00
				<b>500</b>		<b>0</b>	<b>0.00</b>



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: EF-3

Area: D101 CONCESSIONS

Unit Data	
MFG	GREENHECK
Model Num	CUE-090-VG
Serial Num	20894814
Type	CRE UPBLAST

Test Data		
	Design	Actual
CFM	600	630
Fan RPM	1725	7 ON DIAL
RL Voltage	115	117
RL Amperage	1.5	0.9
Suction ESP	-	-0.79
Total ESP	0.66	0.79

Motor Data	
Motor MFG	VARIGREEN
Frame	NL
Horsepower	0.1
Motor Rpm	1725
Phase	1
Voltage (rated)	115
Amperage (rated)	1.5
Service Factor	1

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
EF3-1	D101	E-4		600	757	630	1.05
				<b>600</b>		<b>630</b>	<b>1.05</b>

NOTES: EF DESIGN IS 495 CFM, EGRD TOTAL IS 600 CFM



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF-4 (MAU)**

**Area: KITCHEN MAKEUP AIR**

Unit Data		
	Design	Actual
<b>MFG</b>	GREENHECK	GREENHECK
<b>Model Num</b>	SQ-160-VG	SQ-160-VG
<b>Serial Num</b>	-	20896668
<b>Type</b>	CENT INLINE	CENT INLINE
<b>Configuration</b>		HORIZONTAL

Test Data		
	Design	Actual
<b>CFM</b>	3840	3823
<b>SF RPM</b>	1463	DD 80% OPEN
<b>RL Voltage</b>	208	212/215/211
<b>RL Amperage</b>	6.5	4.1/4.3/3.9
<b>Suction ESP</b>	-	-0.15
<b>Discharge ESP</b>	-	0.1
<b>Total ESP</b>	0.5	0.25
<b>Brake Horse Power</b>	-	1.9

Motor Data		
	Design	Actual
<b>Motor MFG</b>	BALDOR	BALDOR
<b>Frame</b>	145T	145T
<b>Horsepower</b>	2	2
<b>Motor Rpm</b>	1725	1800
<b>Phase</b>	3	3
<b>Voltage (rated)</b>	208	230
<b>Amperage (rated)</b>	6.5	4.3
<b>Service Factor</b>	-	1



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF C1-2**

**Area: C130 ELECTRICAL RM**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CSP-A1050-VG
<b>Serial Num</b>	150393249-0015
<b>Type</b>	INLINE CABINET

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.33
<b>Motor Rpm</b>	1200
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	4.75
<b>Service Factor</b>	1

Test Data		
	Design	Actual
<b>CFM</b>	600	619
<b>Fan RPM</b>	772	6 ON DIAL
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	4.75	1.1
<b>Suction ESP</b>		-0.08
<b>Total ESP</b>	0.15	0.08



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF C2-2**

**Area: C229 ELECTRICAL RM**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CSP-A1050-VG
<b>Serial Num</b>	150393249-0012
<b>Type</b>	INLINE CABINET

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.33
<b>Motor Rpm</b>	1200
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	4.75
<b>Service Factor</b>	1

Test Data		
	Design	Actual
<b>CFM</b>	600	619
<b>Fan RPM</b>	772	6 ON DIAL
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	4.75	1.1
<b>Suction ESP</b>		-0.08
<b>Total ESP</b>	0.15	0.08



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF D1-1**

**Area: D115 ELECTRICAL RM**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CSP-A1050-VG
<b>Serial Num</b>	NA
<b>Type</b>	INLINE CABINET

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.33
<b>Motor Rpm</b>	1200
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	4.75
<b>Service Factor</b>	1

Test Data		
	Design	Actual
<b>CFM</b>	600	589
<b>Fan RPM</b>	772	DD
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	4.75	1.2
<b>Suction ESP</b>		0.07
<b>Total ESP</b>	0.15	0.07



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF-6**

**Area: E130 MAIN ELECT**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	SQ-160-VG
<b>Serial Num</b>	NA
<b>Type</b>	CENT INLINE

Motor Data	
<b>Motor MFG</b>	NA
<b>Frame</b>	NA
<b>Horsepower</b>	0.75
<b>Motor Rpm</b>	1140
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	8.8
<b>Service Factor</b>	NA

Test Data		
	Design	Actual
<b>CFM</b>	1500	1597
<b>Fan RPM</b>	609	DD
<b>RL Voltage</b>	115	119
<b>RL Amperage</b>	8.8	6.3
<b>Suction ESP</b>		0.1
<b>Total ESP</b>	0.13	0.1



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF-7**

**Area: E136 STORAGE**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CSP-A190
<b>Serial Num</b>	21266594
<b>Type</b>	INLINE CABINET

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	46W
<b>Motor Rpm</b>	NL
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	0.45
<b>Service Factor</b>	1

Test Data		
	Design	Actual
<b>CFM</b>	150	175
<b>Fan RPM</b>	1384	DD
<b>RL Voltage</b>	115	117
<b>RL Amperage</b>	0.45	0.45
<b>Suction ESP</b>	-	0.35
<b>Total ESP</b>	0.38	0.35



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: EF-8**

**Area: CONCESSIONS BLDG**

Unit Data	
<b>MFG</b>	GREENHECK
<b>Model Num</b>	CUE-099-VG
<b>Serial Num</b>	20894817
<b>Type</b>	CRE UPBLST

Motor Data	
<b>Motor MFG</b>	VARIGREEN
<b>Frame</b>	NL
<b>Horsepower</b>	0.25
<b>Motor Rpm</b>	1750
<b>Phase</b>	1
<b>Voltage (rated)</b>	115
<b>Amperage (rated)</b>	2.85
<b>Service Factor</b>	1.25

Test Data		
	Design	Actual
<b>CFM</b>	725	747
<b>Fan RPM</b>	1565	6 ON DIAL
<b>RL Voltage</b>	115	118
<b>RL Amperage</b>	2.85	2.5
<b>Suction ESP</b>	-	-0.46
<b>Total ESP</b>	0.647	0.46



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: KEF-1**

**Area: KITCHEN HOODS KEH-1/2**

Unit Data	
MFG	GREENHECK
Model Num	CUBE-220HP-20
Serial Num	20894816
Type	CRE UPBLAST

Motor Data	
Motor MFG	BALDOR
Frame	56H
Horsepower	2
Motor Rpm	1750
Phase	3
Voltage (rated)	460
Amperage (rated)	3.4
Service Factor	1.15

Drive Data	
Motor Sheave Size	VP40
Motor Bore Size	0.625"
Fan Sheave Size	AK64
Fan Bore Size	1"
Belt CL Distance	7.75"
No of Belts	1
Belt Size	AX29

Test Data		
	Design	Actual
CFM	4800	5418
Fan RPM	1011	956
RL Voltage	460	474 VFD
RL Amperage	3.4	2.8 VFD
Suction ESP		0.95
Total ESP	1	0.95
Brake Horse Power		1.65



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: KEF-2

Area: DISHWASHER

Unit Data	
MFG	GREENHECK
Model Num	CUE-099-VG
Serial Num	20894815
Type	CRE UPBLAST

Motor Data	
Motor MFG	VARIGREEN
Frame	NL
Horsepower	0.25
Motor Rpm	1750
Phase	1
Voltage (rated)	115
Amperage (rated)	2.85
Service Factor	1.25

Test Data		
	Design	Actual
CFM	600	609
Fan RPM	1363	8 ON DIAL
RL Voltage	115	119
RL Amperage	2.85	1.35
Suction ESP		-0.52
Total ESP	0.603	0.52

Asset	Area Served	Type	Size	DESIGN	CFM(1)	FINAL CFM	% to design
EF2-1	DW LOAD	PANTS LEG		200	287	207	1.04
EF2-1	DW UNLOAD	PANTS LEG		400	469	402	1.01
				<b>600</b>		<b>609</b>	<b>1.02</b>



Comfort. Under control.

# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: KH-1

Area: KITCHEN

Unit Data	
MFG	GREENHECK
Model Num	GHEW-144.00-S
Job / Serial Num	
Type	TYPE I CANOPY
Hood length	144
Hood Width	66
Supply Plenum Type	EXTERNAL
Supply Plenum Width	14
Supply Plenum Length	156

Test Data Exhaust		
Filter Type	BAFFLE	
Filter Size 1	20X16	
Filter Qty 1	4	
Filter AK factor size 1	2.1	
Filter Total AK Area 1	8.4	
Filter Size 2	20X20	
Filter Qty 2	4	
Filter AK factor size 2	2.4	
Filter Total AK Area 2	9.6	
	<b>PRELIM</b>	<b>FINAL</b>
Filter1 FPM	128	128
Filter2 FPM	135	135
Filter3 FPM	164	164
Filter4 FPM	208	208
Filter5 FPM	133	133
Filter6 FPM	108	108
Filter7 FPM	116	116
Filter8 FPM	124	124
Filter Ave FPM	140	140
CFM	2400	2520

Test Data Supply		
AK factor	1.00	
Total AK Area	15.17	
	<b>PRELIM</b>	<b>FINAL</b>
Reading1 FPM	77	128
Reading2 FPM	58	96
Reading3 FPM	68	113
Reading4 FPM	75	125
Reading5 FPM	82	136
Reading6 FPM	85	141
Reading7 FPM	74	123
Reading8 FPM	75	125
Reading9 FPM	72	120
Reading10 FPM	82	136
	748	1242
Ave FPM(corr)	75	124
CFM	1920	1881



Comfort. Under control.

# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: KH-2

Area: KITCHEN

Unit Data	
MFG	GREENHECK
Model Num	GHEW-144.00-S
Job / Serial Num	
Type	TYPE I CANOPY
Hood length	144
Hood Width	66
Supply Plenum Type	EXTERNAL
Supply Plenum Width	14
Supply Plenum Length	156

Test Data Exhaust		
Filter Type	BAFFLE	
Filter Size 1	20X16	
Filter Qty 1	4	
Filter AK factor size 1	2.1	
Filter Total AK Area 1	8.4	
Filter Size 2	20X20	
Filter Qty 2	4	
Filter AK factor size 2	2.4	
Filter Total AK Area 2	9.6	
	<b>PRELIM</b>	<b>FINAL</b>
Filter1 FPM	117	117
Filter2 FPM	128	128
Filter3 FPM	195	195
Filter4 FPM	227	227
Filter5 FPM	166	166
Filter6 FPM	145	145
Filter7 FPM	164	164
Filter8 FPM	146	146
Filter9 FPM		
Filter Ave FPM	161	161
CFM	2400	2898

Test Data Supply		
	<b>PRELIM</b>	<b>FINAL</b>
AK factor	1.00	
Total AK Area	15.17	
	<b>PRELIM</b>	<b>FINAL</b>
Reading1 FPM	90	139
Reading2 FPM	78	120
Reading3 FPM	85	131
Reading4 FPM	92	142
Reading5 FPM	76	117
Reading6 FPM	78	120
Reading7 FPM	84	129
Reading8 FPM	86	132
Reading9 FPM	80	123
Reading10 FPM	85	131
	834	1284
Ave FPM(corr)	83	128
CFM	1920	1942



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: P-1A

Service: GEOTHERMAL LOOP

Unit Data	
	Actual
MFG	BELL & GOSSETT
Model Num	e-1510 2EB
Serial Num	PRD36006-02
Service	GEOTHERMAL LOOP
Pump RPM	1750
GPM/Head	285 / 85
Impellar Diameter	10.625

Motor Data	
	Actual
Motor MFG	BALDOR
Frame	215T
Horsepower	10
Motor RPM	1770
Phase	3
Voltage	460
Amperage	12.5
Service Factor	1.15
Efficiency	91.7
Power Factor	82

Test Data		
	Design	Actual
Pump Off Pressure (psi)		30
Pump Dead Head (ft)		122
Act. Impellar Dia (in)		10.625
Valve Open GPM		396
Valve Open Diff (ft)		93
Discharge Pressure (ft)		111
Suction Pressure (ft)		67
Total Head Pressure (ft)	85	44
Final GPM	285	396
Motor Frequency (HZ)	60	60
System Set Point		TBD
RL Voltage	460	477 vfd
RL Amperage	12.5	13.2 vfd
BHP		10.56

**One pump running**



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: P-1A

Service: GEOTHERMAL LOOP

Unit Data	
	Actual
MFG	BELL & GOSSETT
Model Num	e-1510 2EB
Serial Num	PRD36006-02
Service	GEOTHERMAL LOOP
Pump RPM	1750
GPM/Head	285 / 85
Impellar Diameter	10.625

Motor Data	
	Actual
Motor MFG	BALDOR
Frame	215T
Horsepower	10
Motor RPM	1770
Phase	3
Voltage	460
Amperage	12.5
Service Factor	1.15
Efficiency	91.7
Power Factor	82

Test Data		
	Design	Actual
Pump Off Pressure (psi)		30
Pump Dead Head (ft)		122
Act. Impellar Dia (in)		10.625
Valve Open GPM		272
Valve Open Diff (ft)		93
Discharge Pressure (ft)		157
Suction Pressure (ft)		64
Total Head Pressure (ft)	85	93
Final GPM	285	252
Motor Frequency (HZ)	60	60
System Set Point		TBD
RL Voltage	460	477 vfd
RL Amperage	12.5	11.6 vfd
BHP		9.28

**Two pumps running**



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: P-1B

Service: GEOTHERMAL LOOP

Unit Data	
	Actual
MFG	BELL & GOSSETT
Model Num	e-1510 2EB
Serial Num	PRD36006-1
Service	GEOTHERMAL LOOP
Pump RPM	1750
GPM/Head	285 / 85
Impellar Diameter	10.625

Motor Data	
	Actual
Motor MFG	BALDOR
Frame	215T
Horsepower	10
Motor RPM	1770
Phase	3
Voltage	460
Amperage	12.5
Service Factor	1.15
Efficiency	91.7
Power Factor	82

Test Data		
	Design	Actual
Pump Off Pressure (psi)		30
Pump Dead Head (ft)		122.2
Act. Impellar Dia (in)		10.625
Valve Open GPM		396
Valve Open Diff (ft)		91
Discharge Pressure (ft)		111
Suction Pressure (ft)		67
Total Head Pressure (ft)	85	44
Final GPM	285	396
Motor Frequency (HZ)	60	60
System Set Point		TBD
RL Voltage	460	478 vfd
RL Amperage	12.5	13.2 vfd
BHP		10.56

**One pump running**



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

Asset: P-1B

Service: GEOTHERMAL LOOP

Unit Data	
	Actual
MFG	BELL & GOSSETT
Model Num	e-1510 2EB
Serial Num	PRD36006-1
Service	GEOTHERMAL LOOP
Pump RPM	1750
GPM/Head	285 / 85
Impellar Diameter	10.625

Motor Data	
	Actual
Motor MFG	BALDOR
Frame	215T
Horsepower	10
Motor RPM	1770
Phase	3
Voltage	460
Amperage	12.5
Service Factor	1.15
Efficiency	91.7
Power Factor	82

Test Data		
	Design	Actual
Pump Off Pressure (psi)		30
Pump Dead Head (ft)		122.2
Act. Impellar Dia (in)		10.625
Valve Open GPM		275
Valve Open Diff (ft)		91
Discharge Pressure (ft)		156
Suction Pressure (ft)		65
Total Head Pressure (ft)	85	91
Final GPM	285	255
Motor Frequency (HZ)	60	60
System Set Point		TBD
RL Voltage	460	478 vfd
RL Amperage	12.5	11.8 vfd
BHP		9.67

**Two pumps running**



# National TAB

**Project: Selma Burke Middle School**  
**Address: 235 Rinehardt Rd Mooresville, NC**

**Asset: CIRCUIT SETTERS**

**Service:**

Asset	Location	MFG	Model	Size	Type	Design GPM	Setting	Delta P	Final GPM	% to Design
D1-4A	D103	IMI FLOW	AC-200	3.00	Autoflow	36.00	2-32	21.72	36.00	1.00
D1-1	D111	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	12.07	12.00	1.00
D1-2	D111	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	12.61	12.00	1.00
D1-3	D111	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	11.58	12.00	1.00
D1-4B	D114	IMI FLOW	AC-200	3.00	Autoflow	36.00	2-32	15.11	36.00	1.00
D1-5	D114	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	13.67	12.00	1.00
E1-8A	E137	IMI FLOW	AC-150	1.50	Autoflow	18.00	2-32	5.16	18.00	1.00
E1-8B	E137	IMI FLOW	AC-150	1.50	Autoflow	18.00	2-32	6.15	18.00	1.00
A1-9	E103	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	13.05	6.00	1.00
E1-1	E103	IMI FLOW	AC-125	1.25	Autoflow	9.00	2-32	14.71	9.00	1.00
A1-10	E103	IMI FLOW	AC-075	0.75	Autoflow	3.00	2-32	9.9	3.00	1.00
E1-2	E103	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	19.99	6.00	1.00
A1-11	E103	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	18.59	6.00	1.00
E1-4	E103	IMI FLOW	AC-075	0.75	Autoflow	3.00	2-32	16.48	3.00	1.00
E1-3	E103	IMI FLOW	AC-075	0.75	Autoflow	2.00	2-32	20.92	2.00	1.00
E1-5	E103	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	20.14	6.00	1.00
A1-12	E103	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	13.88	12.00	1.00
E1-6	E103	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	20.41	6.00	1.00
A1-2	B100	IMI FLOW	AC-075	0.75	Autoflow	2.00	2-32	17.75	2.00	1.00
A1-4	A124	IMI FLOW	AC-075	0.75	Autoflow	1.50	2-32	10.48	1.50	1.00
A1-5	A124	IMI FLOW	AC-125	1.25	Autoflow	9.00	2-32	4.3	9.00	1.00
A1-1	A124	IMI FLOW	AC-075	0.75	Autoflow	1.50	2-32	10.15	1.50	1.00
A1-3	A124	IMI FLOW	AC-075	0.75	Autoflow	3.00	2-32	6.71	3.00	1.00
B1-3	B103	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	5.61	12.00	1.00
B1-6	B123A	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	16	6.00	1.00
B1-7	B123A	IMI FLOW	AC-075	0.75	Autoflow	3.00	2-32	7.06	3.00	1.00
B1-2	B106	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	5.05	12.00	1.00
B1-5	B117	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	4.19	12.00	1.00
B1-1	B111	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	2.82	12.00	1.00
B1-4	B114	IMI FLOW	AC-125	1.25	Autoflow	12.00	2-32	3.77	12.00	1.00
E1-9	E131	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	16.15	6.00	1.00
E1-10	E131	IMI FLOW	AC-150	1.50	Autoflow	15.00	2-32	4.02	15.00	1.00
E1-7	E119	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	13.92	6.00	1.00
C1-5	C130	IMI FLOW	AC-075	0.75	Autoflow	3.00	2-32	10.11	3.00	1.00
A1-13	C130	IMI FLOW	AC-100	1.00	Autoflow	6.00	2-32	13.28	6.00	1.00
C1-6	C130	IMI FLOW	AC-075	0.75	Autoflow	2.00	2-32	12.71	2.00	1.00
A1-7	A108	IMI FLOW	AC-075	0.75	Autoflow	3.00	2-32	14.05	3.00	1.00
A1-8	A108	IMI FLOW	AC-075	0.75	Autoflow	2.00	2-32	11.33	2.00	1.00
A1-6	A108	IMI FLOW	AC-075	0.75	Autoflow	1.50	2-32	7.93	1.50	1.00

