



AABC

Associated Air
Balance Council

PENN AIR CONTROL, INC.

**WA0302 - CHERRYDALE PRIMARY SCHOOL
SPLIT SYSTEMS**

**Fan Test
IU #01**

UNIT IDENTIFICATION	
Equipment Location	MECH. MEZZ.
Area Served	ROOM C111, C113, C116
Manufacturer	TRANE
Model Number	TWE042C140B1
Serial Number	N324SPM1V
Motor Manufacturer	GENERAL ELECTRIC
Motor HP	.50
Motor Phase	1
Motor Voltage	200-230
Motor Amps	3.3
Motor RPM	1075

MEASUREMENTS	REQUIRED	FINAL
Total CFM	1140	1000
Total CFM - Outlets	990	1000
External S.P.	.7	0.37
External Suction S.P.		-0.26
External Discharge S.P.		0.11
Fan RPM		D. DRIVE
Motor Voltage #1	200/230	207
Motor Amps #1	3.3	2.1

ADDITIONAL DATA	
Drive Manufacturer	DIRECT DRIVE
Motor Sheave	DD
Fan Sheave	DD
Drive Belt No./Size	DD
Center Line Distance	DD
% Sheave Adj. Closed	DD
Motor Adjustment Fwd./Bwd.	DD



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**Air Distribution Test
IU#1**

AIR DISTRIBUTION

Zone	Trm #	Room #	Type	Size	Required CFM	Prlmnry CFM	Final CFM
	1	C117	CD	10"	330		325
	2	C117	CD	10"	330		335
	3	C117	CD	10"	330		340
Grand Total					990		1000



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**Fan Test
IU #02**

UNIT IDENTIFICATION	
Equipment Location	MECH. MEZZ.
Area Served	ROOM C119, C120
Manufacturer	TRANE
Model Number	TWE042C140B1
Serial Number	N324ST01V
Motor Manufacturer	GENERAL ELECTRIC
Motor HP	.50
Motor Phase	1
Motor Voltage	200-230
Motor Amps	3.3
Motor RPM	1725

MEASUREMENTS	REQUIRED	FINAL
Total CFM	1110	1170
Total CFM - Outlets	1210	1170
External S.P.	0.51	0.46
External Suction S.P.		-0.29
External Discharge S.P.		0.17
Fan RPM	HIGH	D.DRIVE
Motor Voltage #1	200/230	206
Motor Amps #1	3.3	2.4

ADDITIONAL DATA	
Drive Manufacturer	DIRECT DRIVE
Motor Sheave	DD
Fan Sheave	DD
Drive Belt No./Size	DD
Center Line Distance	DD
% Sheave Adj. Closed	DD
Motor Adjustment Fwd./Bwd.	DD



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**Air Distribution Test
IU #02**

AIR DISTRIBUTION

Zone	Trm #	Room #	Type	Size	Required CFM	Prlmry CFM	Final CFM
	1	C119	CD	8"	260		250
	2	C120	CD	10"	475		460
	3	C120	CD	10"	475		460
Grand Total					1210		1170



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**Fan Test
IU #03**

UNIT IDENTIFICATION	
Equipment Location	MECH. MEZZ.
Area Served	ROOM C117
Manufacturer	TRANE
Model Number	TWE042C140B1
Serial Number	N324SP01V
Motor Manufacturer	GENERAL ELECTRIC
Motor HP	.50
Motor Phase	1
Motor Voltage	200-230
Motor Amps	3.3
Motor RPM	1725

MEASUREMENTS	REQUIRED	FINAL
Total CFM	1185	1205
Total CFM - Outlets	1185	1205
External S.P.	.5	0.52
External Suction S.P.		-0.40
External Discharge S.P.		0.12
Fan RPM	HIGH	D.DRIVE HI
Motor Voltage #1	200/230	207
Motor Amps #1	3.3	2.4

ADDITIONAL DATA	
Drive Manufacturer	DIRECT DRIVE
Motor Sheave	DD
Fan Sheave	DD
Drive Belt No./Size	DD
Center Line Distance	DD
% Sheave Adj. Closed	DD
Motor Adjustment Fwd./Bwd.	DD



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**Air Distribution Test
IU #03**

AIR DISTRIBUTION

Zone	Term #	Room #	Type	Size	Required CFM	Prlmnry CFM	Final CFM
	1	C111	CD	10"	300		310
	2	C111	CD	10"	300		310
	3	C111	CD	10"	300		300
	4	C116	CD	6"	175		165
	5	C113	CD	6"	110		120
Grand Total					1185		1205



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**Fan Test
IU #04**

UNIT IDENTIFICATION	
Equipment Location	MECH. MEZZ.
Area Served	C104-C107
Manufacturer	TRANE
Model Number	TWED36C140A1
Serial Number	N3138841V
Motor Manufacturer	GENERAL ELECTRIC
Motor HP	.50
Motor Phase	1
Motor Voltage	200-230
Motor Amps	3.3
Motor RPM	1725

MEASUREMENTS	REQUIRED	FINAL
Total CFM	940	940
Total CFM - Outlets	990	940
External S.P.	.5	0.49
External Suction S.P.		-0.37
External Discharge S.P.		0.12
Fan RPM	MEDIUM	D.DRIVE HI
Motor Voltage #1	200/230	207
Motor Amps #1	3.3	2.4

ADDITIONAL DATA	
Drive Manufacturer	DIRECT DRIVE
Motor Sheave	DD
Fan Sheave	DD
Drive Belt No./Size	DD
Center Line Distance	DD
% Sheave Adj. Closed	DD
Motor Adjustment Fwd./Bwd.	DD



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**Air Distribution Test
IU #04**

AIR DISTRIBUTION

Zone	Trm #	Room #	Type	Size	Required CFM	Prlmnry CFM	Final CFM
	1	C104	CD	8"	200		190
	2	C105	CD	6"	150		150
	3	C106	CD	6"	150		140
	4	C107	CD	6"	175		165
	5	C103	CD	6"	150		135
	6	C112	CD	6"	165		160
Grand Total					990		940



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Fan Test
IU #05

UNIT IDENTIFICATION	
Equipment Location	MECH. MEZZ.
Area Served	C118
Manufacturer	TRANE
Model Number	TWE030C140A1
Serial Number	N335A0H1V
Motor Manufacturer	GENERAL ELECTRIC
Motor HP	0.33
Motor Phase	1
Motor Voltage	200-230
Motor Amps	2.1

MEASUREMENTS	REQUIRED	FINAL
Total CFM	600	620
Total CFM - Outlets	600	620
External S.P.	.5	0.74
External Suction S.P.		-0.02
External Discharge S.P.		.72
Fan RPM		D.DRIVE
Motor Voltage #1	200/230	207
Motor Amps #1	2.1	1.3

ADDITIONAL DATA	
Drive Manufacturer	DIRECT DRIVE
Motor Sheave	DD
Fan Sheave	DD
Drive Belt No./Size	DD
Center Line Distance	DD
% Sheave Adj. Closed	DD
Motor Adjustment Fwd./Bwd.	DD



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**Air Distribution Test + Velocities
IU #05**

AIR DISTRIBUTION

Area	#	Room	Type	Size	Ak	Rqrd Vel.	Rqrd CFM	Final Vel.	Final CFM
	1	C118	CD	10"	1.0		300		310
	2	C118	CD	10"	1.0		300		310
Grand Total							600		620