

Report By:

**National TAB
1329 E. KEMPER ROAD
SUITE 4210
CINCINNATI, OH 45246**

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TAB

Comfort. Under control.

**Report: Prelim TAB report
Function: Test, Adjust, & Balance
Date: 01/09/2023**

PROJECT

CW 9000 - At Home Design Center

9000 Cypress Waters Blvd

Coppell, TX 75019

Client

Venture Mechanical Inc
1644 W Crosby Rd
Carrollton, TX 75006

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Project: CW 9000 - At Home Design Center

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Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU



Comfort. Under control.

Asset: ERTU-8

AREA:128

Unit Data		
	Design	Actual
MFG	NA	ZF120N24R4A1BAA1A3
Serial Num	-	
Model Num	NA	YORK
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	4085	
SF RPM	-	
RA CFM	3785	
OA CFM	300	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	3
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	480
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.6"	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Project: CW 9000 - At Home Design Center

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

ERTU-8/128

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
8-1		D	12"X12"	340			-
8-2		D	12"X12"	340			-
8-3		D	12"X12"	340			-
8-4		D	12"X12"	340			-
8-5		D	12"X12"	340			-
8-6		D	12"X12"	340			-
8-7		D	12"X12"	340			-
8-8		D	12"X12"	340			-
8-9		D	12"X12"	340			-
8-10		D	12"X12"	340			-
8-11		D	12"X12"	340			-
8-12		D	12"X12"	340			-

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Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU



Comfort. Under control.

Asset: ERTU-9

AREA:139

Unit Data		
	Design	Actual
MFG	NA	YHC047E4RMA
Serial Num	-	
Model Num	NA	TRANE
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	1295	
SF RPM	-	
RA CFM	1085	
OA CFM	210	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	1
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	480
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.6"	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Project: CW 9000 - At Home Design Center

AHU/RTU



Comfort. Under control.

Diffuser Supply (GRD)

ERTU-9/139

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
9-1		A	8"	140			-
9-2		A	8"	225			-
9-3		A	8"	225			-
9-4		A	8"	225			-
9-5		A	8"	225			-
9-6		A	10"	300			-
9-7		A	8"	140			-
9-8		A	8"	140			-
9-9		A	8"	75			-
9-10		A	8"	215			-
9-11		A	8"	215			-
9-12		A	10"	300			-

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System/Unit: AHU/RTU



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Asset: ERTU-11

AREA:121

Unit Data		
	Design	Actual
MFG	NA	YHC120F4RLA
Serial Num	-	
Model Num	NA	TRANE
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	3840	
SF RPM	-	
RA CFM	3365	
OA CFM	475	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	3
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	480
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.6"	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Project: CW 9000 - At Home Design Center

AHU/RTU



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Diffuser Supply (GRD)

ERTU-11/121

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
11-1		C	10"	235			-
11-2		C	10"	235			-
11-3		C	10"	235			-
11-4		C	10"	235			-
11-5		C	10"	235			-
11-6		C	10"	235			-
11-7		A	10"	300			-
11-8		D	16"X6"	225			-
11-9		D	16"X6"	225			-
11-10		D	16"X6"	225			-
11-11		D	16"X6"	225			-
11-12		A	10"	300			-
11-13		A	10"	225			-
11-14		A	10"	225			-
11-15		D	18"X10"	270			-
11-16		A	10"	225			-
11-17		A	10"	225			-
11-18		A	10"	225			-
11-19		A	10"	225			-

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System/Unit: AHU/RTU



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Asset: ERTU-12

AREA:127

Unit Data		
	Design	Actual
MFG	NA	YHD300G4RHD
Serial Num	-	
Model Num	NA	TRANE
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	8775	
SF RPM	-	
RA CFM	7905	
OA CFM	870	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	8
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	480
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.6"	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Project: CW 9000 - At Home Design Center

AHU/RTU



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Diffuser Supply (GRD)

ERTU-12/127

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		A1		250			-
SGRD2		A1		250			-
SGRD3		D	18"X10"	400			-
SGRD4		D	18"X10"	400			-
SGRD5		D	18"X10"	400			-
SGRD6		D	18"X10"	400			-
SGRD7		D	18"X10"	400			-
SGRD8		D	18"X10"	400			-
SGRD9		D	18"X10"	400			-
SGRD10		D	18"X10"	400			-
SGRD11		D	18"X10"	400			-
SGRD12		D	18"X10"	400			-
SGRD13		D	18"X10"	400			-
SGRD14		D	18"X10"	400			-
SGRD15		D	18"X10"	400			-
SGRD16		D	16"X6"	185			-
SGRD17		D	16"X6"	185			-
SGRD18		D	16"X6"	185			-
SGRD19		D	16"X6"	185			-
SGRD20		D	16"X6"	185			-
SGRD21		D	16"X6"	185			-
SGRD22		D	16"X6"	185			-
SGRD23		D	16"X6"	185			-
SGRD24		D	16"X6"	185			-
SGRD25		D	16"X6"	185			-
SGRD26		D	16"X6"	185			-
SGRD27		D	16"X6"	185			-
SGRD28		D	16"X6"	185			-
SGRD29		D	16"X6"	185			-
SGRD30		D	16"X6"	185			-
SGRD31		D	16"X6"	185			-
SGRD32		D	16"X6"	185			-
SGRD33		A		300			-

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Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU



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Asset: RTU-10

AREA:136

Unit Data		
	Design	Actual
MFG	NA	TSJ150A4S0N**G0E0A
Serial Num	-	
Model Num	NA	TRANE
Configuration	VERTICAL	
Num OA Filters 1	-	
OA Filter Size 1	-	
Num PreFilter 1	-	
PreFilter Size 1	-	

Test Data		
	Design	Actual
SF CFM	5845	
SF RPM	-	
RA CFM	5305	
OA CFM	540	
RL Voltage	-	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	-	4.1
Motor Rpm	-	
Phase	-	3
Rated Voltage	-	480
Rated Amperage	-	
Service Factor	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	-	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	
Motor Bore Size	-	
Motor Sheave SetPt	-	
Fan Sheave Size	-	
Fan Sheave Bore	-	
Belt CL Distance	-	
Num of Belts	-	
Belt Size	-	

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Project: CW 9000 - At Home Design Center

AHU/RTU



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Diffuser Supply (GRD)

RTU-10/136

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
10-1		A	8"	190			-
10-2		A	8"	190			-
10-3		C	10"	190			-
10-4		C	10"	190			-
10-5		C	10"	190			-
10-6		A	10"	290			-
10-7		C	10"	250			-
10-8		C	10"	250			-
10-9		C	10"	250			-
10-10		A	8"	200			-
10-11		A	8"	200			-
10-12		A	8"	200			-
10-13		C	10"	240			-
10-14		C	10"	240			-
10-15		C	10"	240			-
10-16		C	10"	240			-
10-17		C	10"	240			-
10-18		C	10"	240			-
10-19		C	10"	200			-
10-20		C	10"	200			-

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Project: CW 9000 - At Home Design Center
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-4

AREA:124

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	CRE	

Test Data		
	Design	Actual
CFM	1000	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.7"	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.25	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

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Project: CW 9000 - At Home Design Center

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF-4/124

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E4-1	E	16"X16"	335					-
E4-2	E	16"X16"	335					-
E4-3	E	16"X16"	335					-

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Project: CW 9000 - At Home Design Center
System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF-5

AREA:122

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	CRE	

Test Data		
	Design	Actual
CFM	705	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.5"	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.15	
Motor Rpm	1637	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

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Project: CW 9000 - At Home Design Center

FAN - Exhaust



Comfort. Under control.

Diffuser Ret/Exh (GRD)

EF-5/122

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
E5-1	G	16"X16"	705					-

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