National TAB

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	YORK
Serial Num	-	N2E2504418
Model Num	NA	ZF120N24R4A1BAA1A3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	NA
OA Filter Size 1	-	NA
Num PreFilter 1	-	4
PreFilter Size 1	-	20X24X2

Test Data		
	Design	**Actual**
SF CFM	4080	3750
SF RPM	1750	1229
RA CFM	3780	3698
OA CFM	300	0
RL Voltage	480	488/490/489
RL Amperage	4.1	3.9/3.8/3.9
OA Damper Position	-	0
Brake Horse Power	NA	NL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	-	3.0
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.1
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	NA	-1.02
Fan Suction SP	NA	-1.41
Fan Discharge SP	NA	0.32
Total ESP	0.6"	1.34
Fan Total SP	NA	1.73

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4 3/4"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	+2
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1"
Belt CL Distance	-	18 1/2"
Num of Belts	-	1
Belt Size	-	A54

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Notes:

National TAB

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	128	D	12X12	340	273	309	90.9
8-2	128	D	12X12	340	198	306	90.0
8-3	128	D	12X12	340	205	319	93.8
8-4	128	D	12X12	340	251	318	93.5
8-5	128	D	12X12	340	253	321	94.4
8-6	128	D	12X12	340	289	307	90.3
8-7	128	D	12X12	340	245	311	91.5
8-8	128	D	12X12	340	290	309	90.9
8-9	128	D	12X12	340	175	306	90.0
8-10	128	D	12X12	340	246	312	91.8
8-11	128	D	12X12	340	230	306	90.0
8-12	128	D	12"X12"	340	257	326	95.9

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Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU

Comfort. Under control.

Asset: ERTU-9 AREA:129

Unit Data				Test Data		
	Design	**Actual**			**Design**	**Actual**
MFG	NA	TRANE	**SF CFM**		2425	1628
Serial Num	-	221413097L	**SF RPM**		NL	DIRECT DRIVE
Model Num	NA	YHC047E4RMA26H0C1A1A000AA0000C0A0CF0000	**RA CFM**		2215	1411
Configuration	NA	VERTICAL	**OA CFM**		210	217
Num OA Filters 1	-	1	**RL Voltage**		208/230	214
OA Filter Size 1	-	36X15	**RL Amperage**		NL	1.4
Num PreFilter 1	-	4	**OA Damper Position**		-	5%
PreFilter Size 1	-	16X25X2	**Brake Horse Power**		NL	NA

Motor Data		
	Design	**Actual**
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	NL
Phase	-	1
Rated Voltage	-	208/230
Rated Amperage	-	NL
Service Factor	-	NL

Performance Data		
	Design	**Actual**
MA Plenum SP	NA	-0.11
Fan Suction SP	NA	-0.22
Fan Discharge SP	NA	0.11
Total ESP	0.6"	0.22
Fan Total SP	NA	0.33

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

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National TAB

Project:CW 9000 - At Home Design Center

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

ERTU-9/129

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
9-1	131	A	8	215	11	46	21.4
9-2	131	A	8	215	33	96	44.7
9-3	120	A	8	75	109	95	126.7
9-4	139	A	10	300	172	150	50.0
9-5	139	A	10	300	207	164	54.7
9-6	130	A	8	140	0	143	102.1
9-7	130	A	8	140	16	139	99.3
9-8	129	A	8	225	162	139	61.8
9-9	129	A	8	225	143	140	62.2
9-10	139	A	8	140	259	245	175.0
9-11	129	A	8	225	150	126	56.0
9-12	129	A	8	225	167	145	64.4

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National TAB

Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU

Comfort. Under control.

Asset: ERTU-10 AREA:133

Unit Data		
	Design	**Actual**
MFG	NA	YORK
Serial Num	-	N2E2504422
Model Num	NA	ZF120N24R4A1BAA1A3
Configuration	VERTICAL	VERTICAL
Num OA Filters 1	-	NA
OA Filter Size 1	-	NA
Num PreFilter 1	-	4
PreFilter Size 1	-	20X24X2

Test Data		
	Design	**Actual**
SF CFM	4430	3694
SF RPM	1750	1003
RA CFM	3890	3694
OA CFM	540	0
RL Voltage	460	490/491/488
RL Amperage	4.1	4.4/4.2/4.2
OA Damper Position	-	0
Brake Horse Power	NA	NL

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	56HZ
Horsepower	-	3
Motor Rpm	-	1750
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	4.1
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	NA	-0.26
Fan Suction SP	NA	-0.77
Fan Discharge SP	NA	0.79
Total ESP	0.6"	1.05
Fan Total SP	NA	1.56

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4 3/4"
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	+2
Fan Sheave Size	-	7"
Fan Sheave Bore	-	1"
Belt CL Distance	-	18 1/2"
Num of Belts	-	1
Belt Size	-	A54

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Notes:

National TAB

Project:CW 9000 - At Home Design Center

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

ERTU-10/133

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
10-1	135	A	8	200	146	180	90.0
10-2	134	A	10	290	390	229	79.0
10-3	134	C	10	250	138	188	75.2
10-4	134	C	10	250	203	215	86.0
10-5	134	C	10	250	172	186	74.4
10-6	133	C	10	190	151	174	91.6
10-7	133	A	8	190	187	164	86.3
10-8	133	C	10	190	166	172	90.5
10-9	133	A	8	190	178	170	89.5
10-10	133	C		190	183	149	78.4
10-11	135	A	8	200	175	182	91.0
10-12	135	A	8	200	223	169	84.5
10-13	135	C	10	240	209	201	83.8
10-14	135	C	10	240	213	198	82.5
10-15	135	C	10	240	219	204	85.0
10-16	135	C	10	240	169	182	75.8
10-17	135	C	10	240	248	220	91.7
10-18	135	C	10	240	178	179	74.6
10-19	136	C	10	200	212	183	91.5
10-20	136	C	10	200	62	149	74.5

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Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU

Comfort. Under control.

Asset: ERTU-11 AREA:113

Unit Data				Test Data		
	Design	**Actual**			**Design**	**Actual**
MFG	NA	TRANE	**SF CFM**		4530	4788
Serial Num	-	221314008L	**SF RPM**		NL	DIRECT DRIVE
Model Num	NA	YHC120F4RLA26G7C1A1B000AA0000[illegible]0000	**RA CFM**		4055	4323
Configuration	VERTICAL	VERTICAL	**OA CFM**		475	465
Num OA Filters 1	-	1	**RL Voltage**		460	485/480/482
OA Filter Size 1	-	36X15	**RL Amperage**		3.60	2.0/2.0/1.9
Num PreFilter 1	-	3/2	**OA Damper Position**		-	10%
PreFilter Size 1	-	20X25X2/20X30X2	**Brake Horse Power**		NA	NL

Motor Data		
	Design	**Actual**
Motor MFG	-	NA
Frame	-	NA
Horsepower	-	NA
Motor Rpm	-	NA
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	3.60
Service Factor	-	NA

Performance Data		
	Design	**Actual**
MA Plenum SP	NA	-0.44
Fan Suction SP	NA	-0.73
Fan Discharge SP	NA	0.55
Total ESP	0.6"	0.99
Fan Total SP	NA	1.28

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

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Notes:

National TAB

Project:CW 9000 - At Home Design Center

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

ERTU-11/113

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
11-1	126	A	10	300	235	324	108.0
11-2	123	D	16X6	225	396	247	109.8
11-3	123	D	16X6	225	302	236	104.9
11-4	123	D	16X6	225	459	242	107.6
11-5	123	D	16X6	225	371	233	103.6
11-6	124	C	10	235	87	258	109.8
11-7	124	C	10	235	201	237	100.9
11-8	124	C	10	235	359	249	106.0
11-9	124	C	10	235	299	248	105.5
11-10	124	C	10	235	416	222	94.5
11-11	124	C	10	235	288	215	91.5
11-12	121	A	8	225	225	236	104.9
11-13	121	D	18X10	270	324	297	110.0
11-14	121	A	8	225	169	248	110.2
11-15	126	A	10	300	331	328	109.3
11-16	121	A	8	225	256	245	108.9
11-17	121	A	8	225	238	242	107.6
11-18	121	A	8	225	231	247	109.8
11-19	121	A	8	225	229	234	104.0

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National TAB

Project: CW 9000 - At Home Design Center

System/Unit: AHU/RTU

Comfort. Under control.

Asset: ERTU-12 AREA:127

Unit Data				Test Data		
	Design	**Actual**			**Design**	**Actual**
MFG	NA	TRANE	**SF CFM**		9170	9154
Serial Num	-	213510930D	**SF RPM**		NL	721
Model Num	NA	YHD300G4RHD16H7E1A2B6000HA00[illegible]0000	**RA CFM**		7905	8289
Configuration	VERTICAL	VERTICAL	**OA CFM**		870	865
Num OA Filters 1	-	1	**RL Voltage**		480	486/487/488
OA Filter Size 1	-	60X17	**RL Amperage**		6.67	4.8/5.0/4.8
Num PreFilter 1	-	4/8	**OA Damper Position**		-	15%
PreFilter Size 1	-	16X20X2/20X20X2	**Brake Horse Power**		NA	NL

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	184TZ
Horsepower	-	7.5
Motor Rpm	-	3465
Phase	-	3
Rated Voltage	-	460
Rated Amperage	-	6.67
Service Factor	-	1.15

Performance Data		
	Design	**Actual**
MA Plenum SP	NA	-0.47
Fan Suction SP	NA	-0.78
Fan Discharge SP	NA	0.55
Total ESP	0.6"	1.02
Fan Total SP	NA	1.33

Drive Data		
	Design	**Actual**
Motor Sheave Size	-	4 1/4"
Motor Bore Size	-	1 1/8"
Motor Sheave SetPt	-	+3
Fan Sheave Size	-	19"
Fan Sheave Bore	-	1 1/4"
Belt CL Distance	-	21 1/4"
Num of Belts	-	1
Belt Size	-	BX81

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Notes:

National TAB

Project:CW 9000 - At Home Design Center

AHU/RTU

Comfort. Under control.

Diffuser Supply (GRD)

ERTU-12/127

Asset							
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**CFM(1)**	**FINAL CFM**	**% to design**
12-1	113	A1	8	250	144	144	57.6
12-2	112	A1	8	250	141	141	56.4
12-3	132	D	16X6	185			-
12-4	132	D	16X6	185			-
12-5	132	D	16X6	185			-
12-6	132	D	16X6	185			-
12-7	140	A	10	300	101	101	33.7
12-8	132	D	16X6	185			-
12-9	132	D	16X6	185			-
12-10	132	D	16X6	185			-
12-11	132	D	16X6	185			-
12-12	132	D	16X6	185			-
12-13	132	D	16X6	185			-
12-14	132	D	16X6	185			-
12-15	132	D	16X6	185			-
12-16	132	D	16X6	185			-
12-17	132	D	16X6	185			-
12-18	132	D	16X6	185			-
12-19	132	D	16X6	185			-
12-20	132	D	16X6	185			-
12-21	132	D	16X6	185			-
12-22	127	D	18X10	400			-
12-23	127	D	18X10	400			-
12-24	127	D	18X10	400			-
12-25	127	D	18X10	400			-
12-26	127	D	18X10	400			-
12-27	127	D	18X10	400			-
12-28	127	D	18X10	400			-
12-29	127	D	18X10	400			-
12-30	127	D	18X10	400			-
12-31	127	D	18X10	400			-
12-32	104	D	10X10	240			-
12-33	127	D	18X10	400			-
12-34	127	D	18X10	400	8768	8768	2192.0

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National TAB

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	GREENHECK
Model Num	NA	CUE-100-4-VG-1-19-X
Serial Num	-	21386303
Type	UPBLAST	UPBLAST

Test Data		
	Design	**Actual**
CFM	1005	831
RL Voltage	-	122
RL Amperage	-	2.7
Total ESP	0.7	0.21

Motor Data		
	Design	**Actual**
Motor MFG	-	BROAD-OCEAN
Frame	-	NL
Horsepower	NA	1/4
Motor Rpm	NA	300-1750
Phase	NA	1
Voltage (rated)	NA	115
Amperage (rated)	-	2.85
Service Factor	-	1.25

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Notes: EF-4 is operating at 82% of design at max amp draw. Diffusers were left as is due to no dampers.

National TAB

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**	**CFM(1)**	**FINAL CFM**	**% to design**
E4-1	E	16X16	335	611	548	163.6
E4-2	E	16X16	335	206	186	55.5
E4-3	E	16X16	335	99	97	29.0

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National TAB

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	GREENHECK
Model Num	NA	CUE-095-6-V6-1-19-X
Serial Num	-	21386568
Type	UPBLAST	UPBLAST

Test Data		
	Design	**Actual**
CFM	705	651
RL Voltage	-	120
RL Amperage	-	0.5
Total ESP	0.5	0.15

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	NL
Horsepower	NA	1/5
Motor Rpm	NA	350-1750
Phase	NA	1
Voltage (rated)	NA	115
Amperage (rated)	-	2.3
Service Factor	-	1.0

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Notes:

National TAB

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**	**CFM(1)**	**FINAL CFM**	**% to design**
E5-1	G	16X16	705	1063	651	92.3

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