National TAB

Project: Warabeya North America (Columbus, OH)

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Project: Warabeya North America (Columbus, OH)

System/Unit: AHU/RTU

Asset: AHU-1 AREA:FLR 2 AREA A

Unit Data		
	Design	**Actual**
MFG	NA	TRANE
Serial Num	-	H24H70556
Model Num	NA	CSAA021UA
Configuration	HORIZONTAL	HORIZONTAL
Num PreFilter 1	-	12
PreFilter Size 1	-	16X25X2

Motor Data		
	Design	**Actual**
Horsepower	10	10
Motor Rpm	-	1800
Phase	3	3
Rated Voltage	460	460
Rated Amperage	-	12.5

Test Data		
	Design	**Actual**
SF CFM	8200	8044
RA CFM	5000	4777
OA CFM	3200	3267
RL Voltage	-	465 VFD
RL Amperage	-	7.5 VFD
VFD Max SetPt	-	70
SF Motor Freq(HZ)	-	67 HZ
SF System SetPt	-	1"

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.32"
Fan Suction SP	-	-1.01"
Fan Discharge SP	-	1.29"
Total ESP	2.50	1.61"
Fan Total SP	3.865	2.3"
Pre-Filter P.D.	-	0.3"
CHW Coil P.D.	-	0.3"
PreHeat Coil P.D	-	0.08"

Completed By: Nick Payne on 09/17/2025

Notes:
No dampers located for diffusers 1 & 2.

Written By: Corey Dick on 09/18/2025

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Project:Warabeya North America (Columbus, OH)

AHU/RTU

VAV - Single Duct

AHU-1/FLR 2 AREA A

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAVR-1	PRICE	SDV	REHEAT	8	500	501	150	155	350	353	42.61
VAVR-3	PRICE	SDV	REHEAT	12	945	943	425	432	644	657	38.84
VAVR-4	PRICE	SDV	REHEAT	6	300	294	100	103	260	256	29.78
VAVR-5	PRICE	SDV	REHEAT	6	260	258	90	94	260	258	51.11
VAVR-6	PRICE	SDV	REHEAT	6	375	374	115	121	280	287	18.97
VAVR-7	PRICE	SDV	REHEAT	6	300	299	90	93	260	266	14.75
VAVR-8	PRICE	SDV	REHEAT	6	350	339	110	112	110	112	54.82
VAVR-9	PRICE	SDV	REHEAT	6	315	310	95	101	95	101	63.96
VAVR-10	PRICE	SDV	REHEAT	6	375	362	115	112	120	122	63.71
VAVR-11	PRICE	SDV	REHEAT	6	240	235	100	103	100	103	12.30
VAVR-13	PRICE	SDV	REHEAT	16	3200		960		960		
VAVR-12A 1	PRICE	SDV	REHEAT	12	960	955	540	543	920	929	41.96
VAVR-12B 1	PRICE	SDV	REHEAT	14	1825	1809	600	611	600	611	92.82
VAVR-2A 1	PRICE	SDV	REHEAT	12	980	983	425	429	950	937	43.38
VAVR-2B 1	PRICE	SDV	REHEAT	10	600	597	330	332	504	515	40.17

Diffuser Ret/Exh (GRD)

AHU-1/FLR 2 AREA A

Asset											
Asset Name	Model Num	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design
RGRD1	RG1-14			1130	1		501				-
RGRD2	RG1-14			1130	-	-	823	-			-
RGRD3	RG1-10			480	-	-	171	-			-
RGRD4	RG1-14			1130	-	-	967	-			-
RGRD5	RG1-14			1130	-	-	907	-			-
Total				5000			3369		0	0	0%

Diffuser Supply (GRD)

VAVR-1/

Asset											
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design
SGRD1	101	SG1-8	8	250			266			266	106.4
SGRD2	101	SG1-8	8	250			235			235	94.0
Total				500			501		0	501	100.2%

VAVR-3/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	115	SG1-8	8	235			274			235	100.0
SGRD2	115	SG1-8	8	235			191			214	91.1
SGRD3	115	SG1-8	8	240			253			248	103.3
SGRD4	115	SG1-8	8	235			223			246	104.7
Total				945			941		0	943	99.79%

VAVR-4/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	114	SG1-8	8	225			317			222	98.7
SGRD2	100	SG1-6	6	75			0			72	96.0
Total				300			317		0	294	98%

VAVR-5/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	113	SG1-8	8	235			149			234	99.6
SGRD2	113A	SG1S-6	6	25			108			24	96.0
Total				260			257		0	258	99.23%

VAVR-6/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	111	SG1-8	8	175			207			173	98.9
SGRD2	112	SG1-8	8	200			177			201	100.5
Total				375			384		0	374	99.73%

VAVR-7/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	110	SG1-10	10	300			80`			299	99.7
Total				300			0		0	299	99.67%

VAVR-8/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	109	SG1-8	8	125			12			114	91.2
SGRD2	CORR	SG1-8	8	100			54			101	101.0
SGRD3	108	SG1-8	8	125			49			124	99.2
Total				350			115		0	339	96.86%

VAVR-9/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	103	SG1-10	10	315			75			310	98.4
Total				315			75		0	310	98.41%

VAVR-10/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	126	SG1-8	8	100						103	103.0
SGRD2	124	SG1-8	8	175						162	92.6
SGRD3	123	SG1-8	8	100						97	97.0
Total				375			0		0	362	96.53%

VAVR-11/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	121	SG1-8	8	240			66			235	97.9
Total				240			66		0	235	97.92%

VAVR-13/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	104	SG1SS-30	32X32	3200							-
Total				3200			0		0	0	0%

VAVR-12A 1/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	120	SG1-10	10	320			298			314	98.1
SGRD2	120	SG1-10	10	320			383			323	100.9
SGRD3	120	SG1-10	10	320			392			318	99.4
Total				960			1073		0	955	99.48%

VAVR-12B 1/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	120	SG1-10	10	305			497			295	96.7
SGRD2	120	SG1-10	10	305			510			297	97.4
SGRD3	120	SG1-10	10	305			490			316	103.6
SGRD4	120	SG1-10	10	305			628			308	101.0
SGRD5	120	SG1-10	10	300			495			300	100.0
SGRD6	120	SG1-10	10	305			577			293	96.1
Total				1825			3197		0	1809	99.12%

VAVR-2A 1/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	102	SG1-8	8	150			201			164	109.3
SGRD2	102	SG1-10	10	340			329			314	92.4
SGRD3	102	SG1-10	10	340			365			366	107.6
SGRD4	102	SG1-8	8	150			133			139	92.7
Total				980			1028		0	983	100.31%

VAVR-2B 1/

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	102	SG1-8	8	125			143			133	106.4
SGRD2	102	SG1-8	8	125			144			129	103.2
SGRD3	102	SG1-8	8	150			153			149	99.3
SGRD4	102	SG1-8	8	150			158			138	92.0
SGRD5	105	SG1-6	6	50			72			48	96.0
Total				600			670		0	597	99.5%

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: AHU/RTU

Asset: MAU-2 AREA:WEST PLATFORM

Unit Data		
	Design	**Actual**
MFG	NA	CLIMATE BY DESIGN
Serial Num	-	030134-002-001
Model Num	NA	AHU-5K-130-22-DF-CC
Configuration	-	MAU
Num PreFilter 1	-	12
PreFilter Size 1	-	24X24X2
Num Final Filter 1	-	12
Final Filter Size 1	-	24X24X12

Motor Data		
	Design	**Actual**
Motor MFG	-	TECO
Frame	-	286T
Horsepower	30	30
Motor Rpm	-	1730
Phase	3	3
Rated Voltage	460	460
Rated Amperage	34.3	34.3
Service Factor	-	1.0

Test Data		
	Design	**Actual**
SF CFM	22000	21477
SF RPM	1730	1297
RA CFM	0	0
OA CFM	22000	21477
RL Voltage	460	488/487/488
RL Amperage	34.3	21.6 VFD
VFD Max SetPt	-	48 HZ
SF Motor Freq(HZ)	-	48 HZ
SF System SetPt	-	48 HZ
Brake Horse Power	26.8	18.9

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.22"
Fan Suction SP	-	-1.53"
Fan Discharge SP	-	1.46"
Total ESP	1.0	1.37"
Fan Total SP	5.3	2.99"
Pre-Filter P.D.	-	0.22"
Final Filters P.D.	-	0.31"
CHW Coil P.D.	-	0.23"
Heating Coil P.D.	-	0.78"

Completed By: Gabe Merk on 10/07/2025

Notes:
SP MEASURED AT DUCT STATIC PORT 0.85"

Written By: Gabe Merk on 10/07/2025

National TAB

Project:Warabeya North America (Columbus, OH)

AHU/RTU

Diffuser Supply (GRD)

MAU-2/WEST PLATFORM

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	W PLATFORM	SG1SS-30	32X32	3500	8.79	345	3032	335	2945	3193	91.2
SGRD2	158 KITCHEN	SG1SS-26	28X28	2640	8.79	386	3392	294	2584	2484	94.1
SGRD3	158 KITCHEN	SG1SS-26	28X28	2645	8.79	41	360	278	2444	2489	94.1
SGRD4	158 KITCHEN	SG1SS-26	28X28	2645	8.79	344	3024	291	2558	2558	96.7
SGRD5	158 KITCHEN	SG1SS-26	28X28	2645	8.79	385	3384	311	2733	2733	103.3
SGRD6	158 KITCHEN	SG1SS-26	28X28	2645	8.79	422	3709	347	3050	2637	99.7
SGRD7	158 KITCHEN	SG1SS-26	28X28	2640	8.79	391	3437	345	3032	2690	101.9
SGRD8	158 KITCHEN	SG1SS-26	28X28	2640	8.79	479	4210	333	2693	2693	102.0
Total				22000			24548		22039	21477	97.62%

Completed By: Gabe Merk on 10/07/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: AHU/RTU

Asset: MAU-3 AREA:WEST PLATFORM

Unit Data		
	Design	**Actual**
MFG	NA	CLIMATE BY DESIGN
Serial Num	-	030134-003-001
Model Num	NA	AHU-8P-140-44-DF-CC
Configuration	-	MAU
Num PreFilter 1	-	20
PreFilter Size 1	-	24X24X2
Num PreFilter 2	-	5
PreFilter Size 2	-	12X24X2
Num Final Filter 1	-	20
Final Filter Size 1	-	24X24X12
Num Final Filter 2	-	5
Final Filter Size 2	-	12X24X12

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	405T
Horsepower	75	75
Motor Rpm	-	1120
Phase	3	3
Rated Voltage	460	460
Rated Amperage	85.9	85.9
Service Factor	-	

Test Data		
	Design	**Actual**
SF CFM	37124	36837
SF RPM	1120	840
RA CFM	0	0
OA CFM	37124	36837
RL Voltage	460	486/487/485
RL Amperage	85.9	54.7 VFD
SF Motor Freq(HZ)	-	45 HZ
SF System SetPt	-	45 HZ
Brake Horse Power	53.1	47.8

Performance Data		
	Design	**Actual**
MA Plenum SP	-	-0.38"
Fan Suction SP	-	-1.42"
Fan Discharge SP	-	1.35"
Total ESP	1.25	1.51"
Fan Total SP	5.6	2.77"
Pre-Filter P.D.	-	0.18"
Final Filters P.D.	-	0.22"
CHW Coil P.D.	-	0.20"
Heating Coil P.D.	-	0.66"

Notes:
DISCHARGE PRESSURE READING 0.53" AT SENSOR.

Written By: Gabe Merk on 09/24/2025

National TAB

Project:Warabeya North America (Columbus, OH)

AHU/RTU

Diffuser Supply (GRD)

MAU-3/WEST PLATFORM

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	HOOD 2			2880			10833		8863	8863	307.7
SGRD2	HOOD 3			2880							-
SGRD3	HOOD 4			2880							-
SGRD4	HOOD 5			2640			11703		9575	9575	362.7
SGRD5	HOOD 6			2640							-
SGRD6	HOOD 7A			3840							-
SGRD7	HOOD 7B			3840							-
SGRD8	HOOD 8A			6620			22488		18399	18399	277.9
SGRD9	HOOD 8B			3036	-	-		-	-		-
SGRD10	HOOD 8C			5868	-	-		-	-		-
Total				37124			45024		36837	36837	99.23%

Asset	Notes	Date	Written By
SGRD1	THE VALUES LISTED ARE TRAVERSE VALUES FOR EACH BRANCH.	10/07/2025	Gabe Merk

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: AHU/RTU

Asset: MAU-4 AREA:WEST PLATFORM

Unit Data		
	Design	**Actual**
MFG	NA	CLIMATE BY DESIGN
Serial Num	-	030134-004-001
Model Num	NA	AHU-8S-124-07-DF-CC
Configuration	-	MAU
Num PreFilter 1	-	4
PreFilter Size 1	-	24X24X2
Num Final Filter 1	-	4
Final Filter Size 1	-	24X24X12

Motor Data		
	Design	**Actual**
Frame	-	245T
Horsepower	15	15
Motor Rpm	-	1700
Phase	3	3
Rated Voltage	460	460
Rated Amperage	16.6	16.6

Test Data		
	Design	**Actual**
SF CFM	7000	6957
SF RPM	1700	1331
RA CFM	0	0
OA CFM	7000	6957
RL Voltage	460	486/487/485
RL Amperage	16.6	8.70 VFD
SF Motor Freq(HZ)	-	47HZ
Brake Horse Power	8.4	7.86

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.25	
Fan Total SP	5.3	
Pre-Filter P.D.	-	
Final Filters P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D	-	
Heating Coil P.D.	-	
Hot Gas Reheat P.D.	-	

Notes:
DDPX1 sensor @0.63"

Written By: Gabe Merk on 09/22/2025

National TAB

Project:Warabeya North America (Columbus, OH)

AHU/RTU

Diffuser Supply (GRD)

MAU-4/WEST PLATFORM

Asset											
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design
SGRD1	160	SG1SS-22	22	2000	7.13	NA	2319	282	2013	2013	100.7
SGRD2	180	SG1SS-26	26	2500	7.13	NA	5598	315	2249	2249	90.0
SGRD3	180	SG1SS-26	26	2500	7.13	NA	0	378	2695	2695	107.8
Total				7000			7917		6957	6957	99.39%

Completed By: Gabe Merk on 09/23/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: AHU/RTU

Asset: MAU-5 AREA:WEST PLATFORM

Unit Data		
	Design	**Actual**
MFG	NA	CLIMATE BY DESIGN
Serial Num	-	030134-005-001
Model Num	NA	AHU-8S-144-35-DF
Configuration	-	MAU
Num PreFilter 1	-	16
PreFilter Size 1	-	24X24X2
Num PreFilter 2	-	4
PreFilter Size 2	-	12X24X2
Num Final Filter 1	-	16
Final Filter Size 1	-	24X24X12
Num Final Filter 2	-	4
Final Filter Size 2	-	12X24X12

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	365T
Horsepower	50	50
Motor Rpm	-	1120
Phase	3	3
Rated Voltage	460	460
Rated Amperage	57.8	57.8
Service Factor	-	

Test Data		
	Design	**Actual**
SF CFM	35000	34943
SF RPM	1120	
RA CFM	0	
OA CFM	-	
RL Voltage	460	
RL Amperage	-	
VFD Max SetPt	-	48 HZ
SF Motor Freq(HZ)	-	48HZ
SF System SetPt	-	
RA Damper Position	-	
OA Damper Position	-	
Brake Horse Power	40	

Performance Data		
	Design	**Actual**
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.5	
Fan Total SP	5.1	
Pre-Filter P.D.	-	
Final Filters P.D.	-	
CHW Coil P.D.	-	
PreHeat Coil P.D	-	
Heating Coil P.D.	-	
Hot Gas Reheat P.D.	-	

Notes:
35k CFM for 177 achieved with 48 Hz.
16.6k CFM FOR ROOM 173 @28 HZ DISCHARGE SP 0.90"
10.5k CFM FOR ROOM 152 @29 HZ DISCHARGE SP 1.42"
12.5k CFM FOR ROOMS 152(A,B,C) AND 151 @ 27 HZ DISCHARGE SP 1.26"
10.5k CFM FOR ROOMS 159A AND 159B @20HZ DISCHARGE SP 0.64"

Written By: Nathan Denney on 09/30/2025

Diffuser Supply (GRD)

MAU-5/WEST PLATFORM

Asset										
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	FINAL CFM	% to design
SGRD1	151	SG-1SS-24	24	2250	7.57	341	2581	312	2362	105.0
SGRD2	152A	SG-1SS-26	26	2500	7.13	251	1790	322	2296	91.8
SGRD3	152B	SG-1SS-32	32	3600	8.79	334	2936	384	3375	93.8
SGRD4	151	SG-1SS-24	24	2250	7.57	285	2157	301	2279	101.3
SGRD5	152C	SG-1SS-22	22	1800	7.57	279	2111	251	1900	105.6
SGRD6	152	SG-1SS-26	26	2625	7.13	258	1859	375	2675	101.9
SGRD7	152	SG-1SS-26	26	2625	7.13	249	1775	365	2599	99.0
SGRD8	152	SG-1SS-26	26	2625	7.13	232	1654	344	2454	93.5
SGRD9	152	SG-1SS-26	26	2625	7.13	271	1932	386	2749	104.7
SGRD10	173	SG-1SS-34	34	5550	12.84	403	5174	452	5803	104.6
SGRD11	173	SG-1SS-34	34	5600	12.84	369	4738	413	5307	94.8
SGRD12	173	SG-1SS-34	34	5600	12.84	389	4969	432	5551	99.1
SGRD13	159A	SG-1SS-26	26	2625	10.45	279	2916	227	2372	90.4
SGRD14	159A	SG1SS-26	26	2625	10.45	264	2759	233	2435	92.8
SGRD15	159B	SG1SS-26	26	2625	10.45	211	2205	255	2665	101.5
SGRD16	159B	SG1SS-26	26	2625	10.45	221	2309	260	2717	103.5
SGRD17	177	SG-1SS-26	3'x3'	7000	12.94	359	4646	492	6367	91.0
SGRD18	177	SG-1SS-26	3'x3'	7000	12.94	397	5138	535	6924	98.9
SGRD19	177	SG-1SS-26	3'x3'	7000	12.94	543	7027	547	7079	101.1
SGRD20	177	SG-1SS-26	3'x3'	7000	12.94	332	4296	587	7597	108.5
SGRD21	177	SG-1SS-26	3'x3'	7000	12.94	821	10625	539	6976	99.7
SGRD22	174	SG-1SS-34	3'x3'	5500	14.00	322	4510	383	5359	97.4
SGRD23	174	SG-1SS-34	3'x3'	5500	14.00	294	4118	382	5344	97.2
SGRD24	174	SG-1SS-34	3'x3'	5500	14.00	284	3978	374	5237	95.2
SGRD25	174	SG-1SS-34	3'x3'	5500	14.00	324	4538	416	5819	105.8
Total				107150			92741		106241	99.15%

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: Energy Recovery Unit

Asset: ERU-1 AREA:FLR 2 AREA A

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	ECV-30-F-H
Serial Num	-	25312817
Service	-	EXHAUST
Num Exh-Filters 1	-	3
Exh-Filter Size 1	-	20X20X2
Num OA-Filters 1	-	3
OA-Supply Size 1	-	20X20X2

Exhaust Fan Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	56H
Horsepower	2@1.5	1.5 (Qty 2)
Motor Rpm	2100	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	2.1

OA Fan Motor Data		
	Design	**Actual**
Motor MFG	-	NEMA
Frame	-	56
Horsepower	2@1.0	1.0 (Qty 2)
Motor Rpm	1977	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	1.57

Exhaust Fan Test Data		
	Design	**Actual**
Exh-ERU CFM	3200	2589
Exh-ERU RPM	2100	78 HZ
RL Voltage	460	
RL Amperage	-	2.0 Avg, 2.0 Avg
Brake Horse Power	-	

Exhaust Fan Performance Data		
	Design	**Actual**
Exh-ERU Filter Delta SP	-	* COMBINED
Exh-ERU Wheel Delta SP	-	* 1.32"

OA Fan Test Data		
	Design	**Actual**
OA-ERU CFM	3200	3267
OA-ERU RPM	1977	52 HZ
RL Voltage	460	444 VFD
RL Amperage	-	1.06 AV

OA Fan Performance Data		
	Design	**Actual**
OA-ERU Filter Delta SP	-	* COMBINED
OA-ERU Wheel Delta SP	-	* 0.44"

Notes:
Exhaust Fan at full speed: 78 Hz
Fan suction: -2.1"
Fan discharge: 0.48"
Exhaust duct pressure: -0.78"

Written By: Nathan Denney on 09/16/2025

National TAB

Project:Warabeya North America (Columbus, OH)

Energy Recovery Unit

Diffuser Ret/Exh (GRD)

ERU-1/FLR 2 AREA A

Asset										
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1			150	1		216		107	114	76.0
EGRD2			150	1		235		114	115	76.7
EGRD3			150	1		207		121	123	82.0
EGRD4			75	1		62		50	61	81.3
EGRD5			75	1		151		47	62	82.7
EGRD6			75	1		140		55	59	78.7
EGRD7			150	1		193		147	126	84.0
EGRD8			150	1		181		152	124	82.7
EGRD9			75	1		0		55	59	78.7
EGRD10			225	1		0		219	188	83.6
EGRD11			75	1		0		75	61	81.3
EGRD12			75	1		0		71	63	84.0
EGRD13			75	1		134		50	59	78.7
EGRD14			150	1		131		131	126	84.0
EGRD15			150	1		115		126	124	82.7
EGRD16			185	1		109		147	151	81.6
EGRD17			190	1		102		152	153	80.5
EGRD18			150	1		113		143	125	83.3
EGRD19			185	1		79		130	149	80.5
EGRD20			180	1		84		128	139	77.2
EGRD21			185	1		21		120	140	75.7
EGRD22			325	1		456		272	268	82.5
Total			3200			2729		2612	2589	80.91%

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: CEF-1 AREA:154 JC

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	SP-B110
Serial Num	-	25344232
Type	CEILING	CEILING

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.15

Test Data		
	Design	**Actual**
CFM	75	125

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: CEF-2 AREA:133 TRUCKER RR

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	SP-B110
Serial Num	-	25344225
Type	CEILING	CEILING

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.15

Test Data		
	Design	**Actual**
CFM	75	115

Notes:
Area 0.83sqft (12"x10")

Written By: Noah Stafford on 10/06/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-1 AREA:180 BASKET WASH

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-220-15
Serial Num	-	25469006
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	-	1.5
Motor Rpm	-	1770
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	2.3
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	7”
Fan Sheave Bore	1”
Belt CL Distance	8”
Num of Belts	1
Belt Size	A31

Test Data		
	Design	**Actual**
CFM	6000	5680
Fan RPM	-	78%
RL Voltage	-	368
RL Amperage	-	1.88
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-2 AREA:182 CLEAN RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-120-A
Serial Num	-	25469088
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	US MOTORS
Horsepower	0.5	0.5
Motor Rpm	1725	1650
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.4
Service Factor	-	1

Test Data		
	Design	**Actual**
CFM	1500	215
RL Voltage	115	
RL Amperage	9.8	
Discharge ESP	-	
Total ESP	0.6	

Notes:
not running 9/17

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-3 AREA:177 ASSEMBLY

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-360-50
Serial Num	-	25469127
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5”
Motor Bore Size	1”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	12”
Fan Sheave Bore	1.5”
Belt CL Distance	11
Num of Belts	1
Belt Size	A48

Test Data		
	Design	**Actual**
CFM	15700	16317
Fan RPM	-	87%
RL Voltage	-	406 VFD
RL Amperage	-	4.5 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
Not running 9/17

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-4 AREA:173 PIZZA TOPPING

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-360-50
Serial Num	-	25469128
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5”
Motor Bore Size	1.5”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	12.5”
Fan Sheave Bore	1.5”
Belt CL Distance	11”
Num of Belts	2
Belt Size	A48

Test Data		
	Design	**Actual**
CFM	15700	14580
Fan RPM	-	100%
RL Voltage	-	460
RL Amperage	-	5.12
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-5 AREA:177 ASSEMBLY

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-360-50
Serial Num	-	25469129
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5”
Motor Bore Size	1.5”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	13”
Fan Sheave Bore	1.5”
Belt CL Distance	11.5”
Num of Belts	2
Belt Size	A40

Test Data		
	Design	**Actual**
CFM	15700	16182
Fan RPM	-	86%
RL Voltage	-	406 VFD
RL Amperage	-	4.4 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
wrong rotation?

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-6 AREA:177 ASSEMBLY

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-300-50
Serial Num	-	25469165
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	-	5
Motor Rpm	-	1750
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	6.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5”
Motor Bore Size	1”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	10”
Fan Sheave Bore	1”
Belt CL Distance	11”
Num of Belts	2
Belt Size	A44

Test Data		
	Design	**Actual**
CFM	13100	12956
Fan RPM	-	80%
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
NEED LIFT
running backwards 10/1

Written By: Gabe Merk on 10/01/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-7 AREA:174 PIZZA

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-300-30
Serial Num	-	25469186
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	-	3
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	8.4
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5.5”
Motor Bore Size	1.25”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	12”
Fan Sheave Bore	1”
Belt CL Distance	11”
Num of Belts	1
Belt Size	AX47

Test Data		
	Design	**Actual**
CFM	10000	10532
Fan RPM	-	80%
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
NEED LIFT

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-8 AREA:173 PIZZA TOPPING

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-300-30
Serial Num	-	25469185
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	-	3
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	8.4
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5.5”
Motor Bore Size	1.25”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	12”
Fan Sheave Bore	1”
Belt CL Distance	11”
Num of Belts	1
Belt Size	AX47

Test Data		
	Design	**Actual**
CFM	10000	2978
Fan RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
NEED LIFT

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-16 AREA:159A NON-RTE MEAT PREP

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-180-20
Serial Num	-	25469207
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	-	2
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	2.8
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	5”
Fan Sheave Bore	1”
Belt CL Distance	7.5”
Num of Belts	1
Belt Size	AX26

Test Data		
	Design	**Actual**
CFM	5250	5200
Fan RPM	-	87%
RL Voltage	-	409
RL Amperage	-	2.28
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-17 AREA:159B MARINATION RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-180-20
Serial Num	-	25469229
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	-	2
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	2.8
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	5”
Fan Sheave Bore	1”
Belt CL Distance	7”
Num of Belts	1
Belt Size	AX26

Test Data		
	Design	**Actual**
CFM	5250	5700
Fan RPM	-	100%
RL Voltage	-	460
RL Amperage	-	2.56
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-18 AREA:160 WASHING RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-160-B
Serial Num	-	25469243
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	56YZ
Horsepower	0.50	0.50
Motor Rpm	1140	1140
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	6.2
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	2000	231
RL Voltage	115	
RL Amperage	-	
Discharge ESP	-	
Total ESP	0.5	

Notes:
speed via dial

Written By: Gabe Merk on 10/01/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-19 AREA:152A PREP RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-140-10
Serial Num	-	25469262
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	143T
Horsepower	-	1
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	1.63
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	4”
Fan Sheave Bore	1”
Belt CL Distance	5.5”
Num of Belts	1
Belt Size	A20

Test Data		
	Design	**Actual**
CFM	2500	2437
Fan RPM	-	80%
RL Voltage	-	376 VFD
RL Amperage	-	1.3 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-20 AREA:152B RTE MEAT SLICING

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-180-10
Serial Num	-	25469274
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	-	1
Motor Rpm	-	1765
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	1.67
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	4.75”
Fan Sheave Bore	1”
Belt CL Distance	6.5”
Num of Belts	1
Belt Size	AX23

Test Data		
	Design	**Actual**
CFM	3600	3624
Fan RPM	-	84%
RL Voltage	-	393 VFD
RL Amperage	-	1.4 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
NOT RUNNING 9/17

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-21 AREA:152C MIXING PREP

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-120-A
Serial Num	-	25469299
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.50	0.50
Motor Rpm	1725	1650
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.4
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	1800	1711
RL Voltage	115	
RL Amperage	9.8	
Discharge ESP	-	
Total ESP	0.5	

Notes:
speed set point 100%

Written By: Gabe Merk on 10/01/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-22 AREA:151 DECANTING

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-180-15
Serial Num	-	25469313
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	-	1.5
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	460
Amperage (rated)	-	2.38
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	4.75”
Fan Sheave Bore	1”
Belt CL Distance	6.5”
Num of Belts	1
Belt Size	AX23

Test Data		
	Design	**Actual**
CFM	4500	4340
Fan RPM	-	99%
RL Voltage	-	460 VFD
RL Amperage	-	2.0 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-23 AREA:155 RTE HYGIENE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-120-A
Serial Num	-	25469322
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.067	
Motor Rpm	1550	1550
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	NA
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	400	OFF
RL Voltage	115	
RL Amperage	-	
Discharge ESP	-	
Total ESP	0.4	

Notes:
Not running 9/17

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-24 AREA:158 KITCHEN H-9A

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-300-VG
Serial Num	-	25469336
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	213TZ
Horsepower	5.0	5
Motor Rpm	840	900
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	5.61
Service Factor	-	1.15

Test Data		
	Design	**Actual**
CFM	11040	
RL Voltage	460	
RL Amperage	7.4	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-25 AREA:161A DESSERT H-1 (FUTURE)

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-200-VG
Serial Num	-	25469340
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3.0	3
Motor Rpm	1350	1200
Phase	3	3
Voltage (rated)	208	460
Amperage (rated)	-	3.2
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	5200	
RL Voltage	208	
RL Amperage	8.0	
Discharge ESP	-	
Total ESP	0.8	

Notes:
Fan on roof but not in space. Says "FUTURE" on drawing?

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-26 AREA:158 KITCHEN H-2

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-200-VG
Serial Num	-	25532179
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	2.0	2
Motor Rpm	1140	1200
Phase	1	3
Voltage (rated)	208	460
Amperage (rated)	-	2.4
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	4800	
RL Voltage	208	
RL Amperage	12.5	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-27 AREA:158 KITCHEN H-3

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-200-VG
Serial Num	-	25532180
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	2.0	2
Motor Rpm	1140	1200
Phase	1	3
Voltage (rated)	208	460
Amperage (rated)	-	2.4
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	4800	
RL Voltage	208	
RL Amperage	12.5	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-28 AREA:158 KITCHEN H-4

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-200-VG
Serial Num	-	25532181
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	2.0	2
Motor Rpm	1140	1200
Phase	1	3
Voltage (rated)	208	460
Amperage (rated)	-	2.4
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	4800	
RL Voltage	208	
RL Amperage	12.5	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-29 AREA:158 KITCHEN H-5

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-200-VG
Serial Num	-	25532182
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	2.0	2
Motor Rpm	1140	1200
Phase	1	3
Voltage (rated)	208	460
Amperage (rated)	-	2.4
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	4400	
RL Voltage	208	
RL Amperage	12.5	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-30 AREA:158 KITCHEN H-6

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-200-VG
Serial Num	-	25533200
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	2.0	2
Motor Rpm	1140	1200
Phase	1	3
Voltage (rated)	208	460
Amperage (rated)	-	2.4
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	4400	
RL Voltage	208	
RL Amperage	12.5	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-31 AREA:158 KITCHEN H-7A

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-240-VG
Serial Num	-	25533201
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3.0	3
Motor Rpm	960	1200
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	3.2
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	6400	
RL Voltage	460	
RL Amperage	4.3	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-32 AREA:158 KITCHEN H-7B

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-240-VG
Serial Num	-	25533202
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3.0	3
Motor Rpm	960	1200
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	3.2
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	6400	
RL Voltage	460	
RL Amperage	4.3	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-33 AREA:158 KITCHEN H-8C

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-300-VG
Serial Num	-	25469196
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	213TZ
Horsepower	5.0	5
Motor Rpm	840	900
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	5.61
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	8450	
RL Voltage	460	
RL Amperage	7.4	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-34 AREA:158 KITCHEN H-8B

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-240-VG
Serial Num	-	25533203
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	184T
Horsepower	3.0	3
Motor Rpm	960	1200
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	3.2
Service Factor	-	1.0

Test Data		
	Design	**Actual**
CFM	6450	
RL Voltage	460	
RL Amperage	4.3	
Discharge ESP	-	
Total ESP	0.8	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-35 AREA:146 BOILER

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	GB-200-20
Serial Num	-	25481893
Type	-	DOWNBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	145T
Horsepower	-	2
Motor Rpm	-	1760
Phase	-	3
Voltage (rated)	-	230
Amperage (rated)	-	5.6
Service Factor	-	1.15

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

Test Data		
	Design	**Actual**
CFM	6000	1853
Fan RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
Motor tag below disconnect. See attached
Flow too low with fan running at 100% 10/2
Duct is 10"x10"

Written By: Noah Stafford on 10/02/2025

Unit Data - PHOTO LOG

09/16/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-36 AREA:144 CLEANING RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	GB-180-15
Serial Num	-	25481897
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	1.50	1.50
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	2.38
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	4150	
RL Voltage	460	
RL Amperage	3.0	
Discharge ESP	-	
Total ESP	0.7	

Notes:
4” motor sheave
.75” motor bore
5” fan sheave
1” fan bore
7” CL distance
1 belt
AX24 size
Fan not ducted into the space

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-37 AREA:160 WASHING RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-099-A
Serial Num	-	26329108
Type	-	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	48Y
Horsepower	-	0.25
Motor Rpm	-	1725
Phase	-	1
Voltage (rated)	-	115
Amperage (rated)	-	3.1
Service Factor	-	1.0

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

Test Data		
	Design	**Actual**
CFM	800	
Fan RPM	-	
RL Voltage	-	
RL Amperage	-	
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	
Brake Horse Power	-	

Notes:
not running 9/17

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-38 AREA:131 TRASH

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-120-A
Serial Num	-	25469307
Type	CRE-UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Horsepower	0.50	0.5
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	5.4

Test Data		
	Design	**Actual**
CFM	1500	1347
RL Voltage	115	
RL Amperage	9.8	
Discharge ESP	-	
Total ESP	0.6	

Notes:
NEEDS LIFT

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-39 AREA:

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-090-D
Serial Num	-	25469318
Type	CRE UPBLAST	UPBLAST

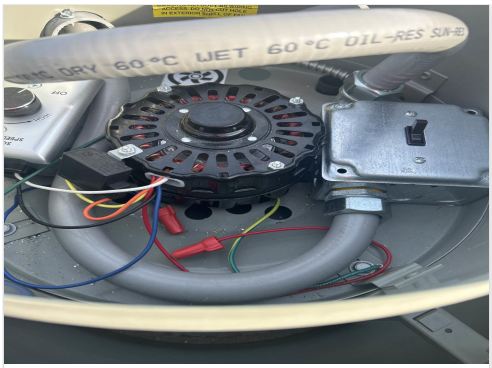
Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.067	
Motor Rpm	1550	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	400	
RL Voltage	115	
RL Amperage	-	
Discharge ESP	-	
Total ESP	0.4	

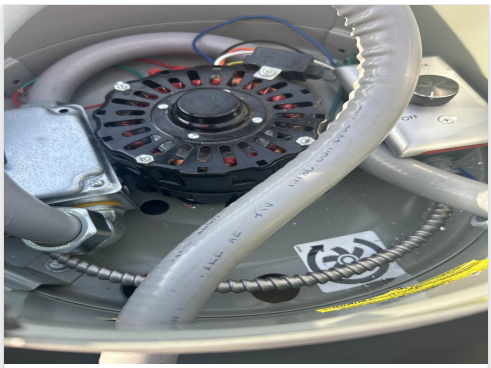
Notes:
No motor tag. See attached
NEED LIFT

Written By: Aaron Cosby on 09/17/2025

Unit Data - PHOTO LOG



09/16/2025



09/16/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-40 AREA:104 R&D TEST KITCHEN

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-160-10
Serial Num	-	25469329
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	143T
Horsepower	1.0	1
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	1.63
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	3”
Motor Bore Size	1”
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	4”
Fan Sheave Bore	1”
Belt CL Distance	5.5”
Num of Belts	1
Belt Size	A20

Test Data		
	Design	**Actual**
CFM	3200	3378
Fan RPM	1310	92%
RL Voltage	460	432 VFD
RL Amperage	2.1	1.3 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.6	
Brake Horse Power	-	

Notes:
Not running 9/17

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-41 AREA:104 R&D TEST H-11

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-160XP-10
Serial Num	-	25469338
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	143T
Horsepower	1.0	1
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	1.63
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	3”
Fan Sheave Bore	1”
Belt CL Distance	5
Num of Belts	1
Belt Size	A20

Test Data		
	Design	**Actual**
CFM	1970	
Fan RPM	2060	
RL Voltage	460	
RL Amperage	2.1	
Suction ESP	-	
Discharge ESP	-	
Total ESP	2.1	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-47 AREA:140 MAINTENANCE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-160-5
Serial Num	-	25469341
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.50	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	9.8
Service Factor	-	

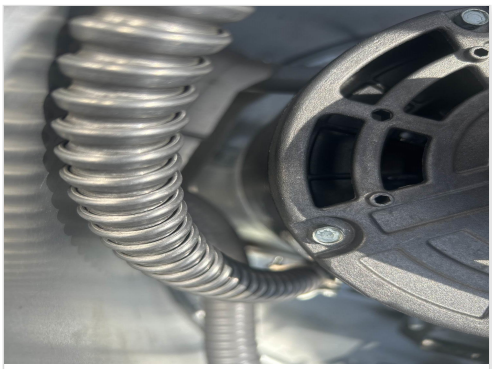
Drive Data	
	Actual
Motor Sheave Size	3.25”
Motor Bore Size	1
Motor Sheave SetPt	2 TURNS OUT
Fan Sheave Size	5.5”
Fan Sheave Bore	1”
Belt CL Distance	5.5”
Num of Belts	1
Belt Size	4L250R

Test Data		
	Design	**Actual**
CFM	2000	734
Fan RPM	943	
RL Voltage	115	
RL Amperage	9.8	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.50	
Brake Horse Power	-	

Notes:
Motor tag NA. See attached
not running 9/17

Written By: Aaron Cosby on 09/17/2025

Unit Data - PHOTO LOG



09/16/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-48 AREA:174 PIZZA PKG

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-300-20
Serial Num	-	25469344
Type	CRE UPBLAST	IPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	56H
Horsepower	2.0	2
Motor Rpm	1725	1770
Phase	3	3
Voltage (rated)	460	208
Amperage (rated)	-	5.8
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	4”
Motor Bore Size	1”
Motor Sheave SetPt	3 TURNS OUT
Fan Sheave Size	10”
Fan Sheave Bore	1”
Belt CL Distance	11”
Num of Belts	1
Belt Size	AX42

Test Data		
	Design	**Actual**
CFM	8900	8919
Fan RPM	622	71%
RL Voltage	460	
RL Amperage	3.4	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
Brake Horse Power	-	

Notes:
71% set point

Written By: Gabe Merk on 10/01/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-50 AREA:152 CHILLED HOLDING

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUBE-300-30
Serial Num	-	25469349
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	3.0	3
Motor Rpm	1725	1765
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	4.2
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	5”
Motor Bore Size	1”
Motor Sheave SetPt	4 TURNS OUT
Fan Sheave Size	12”
Fan Sheave Bore	1”
Belt CL Distance	11”
Num of Belts	1
Belt Size	AX45

Test Data		
	Design	**Actual**
CFM	10500	11001
Fan RPM	-	90%
RL Voltage	460	423
RL Amperage	4.8	3.4
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.5	
Brake Horse Power	-	

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-51 AREA:134 LOADING DOCK

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-070-D
Serial Num	-	25469357
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	GREENHECK
Frame	-	
Horsepower	0.033	0.33
Motor Rpm	1550	1550
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.1
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	105	154
RL Voltage	115	
RL Amperage	-	
Discharge ESP	-	
Total ESP	0.3	

Notes:
NEED LIFT

Written By: Aaron Cosby on 09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-52 AREA:157 NRTE HYGIENE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-090-D
Serial Num	-	25469363
Type	CRE UPBLAST	UPBLAST

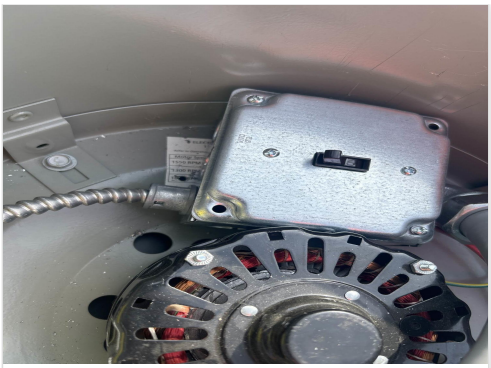
Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.067	
Motor Rpm	1550	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	400	35
RL Voltage	115	
RL Amperage	-	
Discharge ESP	-	
Total ESP	0.4	

Notes:
Motor tag obstructed by disconnect. See attached
Not running 9/17

Written By: Aaron Cosby on 09/17/2025

Unit Data - PHOTO LOG



09/16/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: RE-53 AREA:128 BAKERY HYGIENE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	CUE-070-D
Serial Num	-	25469370
Type	CRE UPBLAST	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.033	
Motor Rpm	1550	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	150	57
RL Voltage	115	
RL Amperage	-	
Discharge ESP	-	
Total ESP	0.3	

Notes:
Motor tag below disconnect. See attached
Not running 9/17

Written By: Aaron Cosby on 09/17/2025

Unit Data - PHOTO LOG

09/16/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Exhaust

Asset: XDUPE RE-39 AREA:166 NRTE PIZZA

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	NA
Serial Num	-	25469318
Type	-	UPBLAST

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	-	
Motor Rpm	-	
Phase	-	
Voltage (rated)	-	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	**Actual**
CFM	400	
RL Voltage	-	
RL Amperage	-	
Discharge ESP	-	
Total ESP	-	

Notes:
Not running 9/17
Motor data below disconnect. See attached

Written By: Aaron Cosby on 09/17/2025

Unit Data - PHOTO LOG

09/17/2025

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Supply

Asset: IF-1 AREA:122 LOCKER RM

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	BSQ-90
Serial Num	-	

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.25	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	5.8
Service Factor	-	

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

Test Data		
	Design	**Actual**
CFM	550	
SF RPM	1651	
RL Voltage	115	
RL Amperage	5.8	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.8	
Brake Horse Power	-	

National TAB

Project:Warabeya North America (Columbus, OH)

FAN - Supply

Diffuser Supply (GRD)

IF-1/122 LOCKER RM

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	122C	SG1S-6	6	75							-
SGRD2	122B	SG1S-6	6	75							-
SGRD3	122A	SG1S-6	6	75							-
SGRD4	122	SG1S-10	10	325							-
Total				550			0		0	0	0%

Diffuser Ret/Exh (GRD)

IF-1/122 LOCKER RM

Asset										
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RG1-12F	12	550							-
Total			550			0		0	0	0%

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Supply

Asset: IF-4 AREA:140 MAINTENANCE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	BSQ-160-7-X
Serial Num	-	25360612

Motor Data		
	Design	**Actual**
Motor MFG	-	WEG
Frame	-	56
Horsepower	0.50	0.75
Motor Rpm	1725	1760
Phase	3	3
Voltage (rated)	460	460
Amperage (rated)	-	1.15
Service Factor	-	1.00

Drive Data	
	Actual
Motor Sheave Size	3"
Motor Bore Size	5/8"
Fan Sheave Size	N/A
Fan Sheave Bore	N/A
Belt CL Distance	N/A
Num of Belts	1
Belt Size	A51

Test Data		
	Design	**Actual**
CFM	2000	1976
SF RPM	1069	1380
RL Voltage	460	
RL Amperage	1.1	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.796	
Brake Horse Power	-	

Notes:
VFD SETPOINT 40 HZ

Written By: Gabe Merk on 10/06/2025

National TAB

Project:Warabeya North America (Columbus, OH)

FAN - Supply

Diffuser Supply (GRD)

IF-4/140 MAINTENANCE

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	140	SG2S	24X24	2000		494	1976			1976	98.8
Total				2000			1976		0	1976	98.8%

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: FAN - Supply

Asset: IF-5 AREA:135 DOCK OFFICE

Unit Data		
	Design	**Actual**
MFG	NA	GREENHECK
Model Num	NA	BSQ-90
Serial Num	-	25360616

Motor Data		
	Design	**Actual**
Motor MFG	-	
Frame	-	
Horsepower	0.33	
Motor Rpm	1725	
Phase	3	
Voltage (rated)	460	
Amperage (rated)	-	1.1
Service Factor	-	

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

Test Data		
	Design	**Actual**
CFM	400	409
SF RPM	1536	
RL Voltage	460	314 VFD
RL Amperage	11	0.57 VFD
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.797	
Brake Horse Power	-	

Notes:
75 CFM OA DESIGNED FROM MUA 1.

Written By: Gabe Merk on 10/07/2025

National TAB

Project:Warabeya North America (Columbus, OH)

FAN - Supply

Diffuser Supply (GRD)

IF-5/135 DOCK OFFICE

Asset											
Asset Name	**Location**	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
SGRD1	135A	SG2S-10/6	10X6	200	1		310		214	214	107.0
SGRD2	135	SG2S-10/6	10X6	200	1		398		195	195	97.5
Total				400			708		409	409	102.25%

Diffuser Ret/Exh (GRD)

IF-5/135 DOCK OFFICE

Asset										
Asset Name	**Type**	**Size**	**DESIGN CFM**	**AK**	**VEL(1)**	**CFM(1)**	**VEL(2)**	**CFM(2)**	**FINAL CFM**	**% to design**
EGRD1	RG2SD-6/8	6X8	325	1		605		327	327	100.6
Total			325			605		327	327	100.62%

National TAB

Project: Warabeya North America (Columbus, OH)

System/Unit: AHU-DUAL FAN

Asset: MAU-1 AREA:WEST PLATFORM

UNIT DATA - SUPPLY		
	Design	**Actual**
Manufacturer	NA	CLIMATE BY DESIGN
Model Number	NA	CDH-1108
Serial Number	-	030410-013-001
No. Pre-Filters / Size (1)	-	20/24X24X2”
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	20/24X24X12”
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

UNIT DATA - EXHAUST/RETURN		
	Design	**Actual**
Manufacturer	-	CLIMATE BY DESIGN
Model Number	-	CDH-1108
Serial Number	-	030410-013-001
No. Pre-Filters / Size (1)	-	2/24X12X2”
No. Pre-Filters / Size (2)	-	4/24X24X2”
No. Pre-Filters / Size (3)	-	
No. Pre-Filters / Size (4)	-	
No. Pre-Filters / Size (5)	-	
No. Pre-Filters / Size (6)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	75
Rated Volts / Phase	460/3
Rated Amperage / SF	85.1

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	20
Rated Volts / Phase	460/3
Rated Amperage / SF	23

DRIVE DATA - SUPPLY		
	Design	**Actual**
Motor Sheave Size / Bore	-	DD
Fan Sheave Size / Bore	-	DD
Belt CL Distance	-	DD
No. Belts / Size	-	DD

DRIVE DATA - EXHAUST/RETURN		
	Design	**Actual**
Motor Sheave Size / Bore	-	DD
Fan Sheave Size / Bore	-	DD
Belt CL Distance	-	DD
No. Belts / Size	-	DD

TEST DATA - SUPPLY		
	Design	**Actual**
Total CFM	25750	25745
OA CFM	14700	25745
Fan RPM	-	
VFD Speed	-	40 HZ
RL Voltage	460	488/487/488
RL Amperage	-	42.2 VFD
Motor B.H.P.	79.8	37.2

TEST DATA - EXHAUST/RETURN		
	Design	**Actual**
Total CFM	11050	
Fan RPM	-	
VFD Speed	-	
RL Voltage	460	
RL Amperage	153.2	
Motor B.H.P.	15.8	

PERFORMANCE DATA - SUPPLY		
	Design	**Actual**
Static Pressure Stpt	-	1.20"
Suction S.P.	-	-1.50"
Discharge S.P.	-	2.07"
Total S.P.	-	3.57"
Chilled Water Coil P.D.	-	0.44"/0.47"
Final Filters P.D.	-	0.40"
Heat Wheel P.D.	-	0.74"
Pre-Filters P.D.	-	0.15"
Total ESP	10.2	1.37"

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	**Actual**
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	-	

Notes:
DUCT STATIC MEASURED 1.20"

Written By: Gabe Merk on 10/07/2025

National TAB

Project:Warabeya North America (Columbus, OH)

AHU-DUAL FAN

VAV - Single Duct

MAU-1/WEST PLATFORM

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-13	PRICE	SDV	REHEAT	16	3200	3033	960	982	960	982	78.08

Diffuser Supply (GRD)

MAU-1/WEST PLATFORM

Asset											
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design
SGRD1	149	SG1SS-26	26	2375	12.6	218	2746	228	2872	2171	91.4
SGRD2	135	DUCT	6	75	1		100		82	82	109.3
SGRD3	CORR	SG1SS-26	26	2400	7.13	339	2417	363	2325	2385	99.4
SGRD4	177	SG1SS-32	32	4000	10.67	355	3788	381	4065	4169	104.2
SGRD5	177	SG1SS-32	32	4000	10.67	425	4535	373	3980	4082	102.1
SGRD6	177	SG1SS-32	32	4000	10.67	373	3980	382	4076	4181	104.5
SGRD7	164	SG1SS-26	26	2375	11.25	284	3195	226	2543	2227	93.8
SGRD8	173	SG1SS-30	30	3250	11.25	342	3848	278	3128	3415	105.1
Total				22475			24609		23071	22712	101.05%

VAV-13/

Asset											
Asset Name	Location	Type	Size	DESIGN CFM	AK	VEL(1)	CFM(1)	VEL(2)	CFM(2)	FINAL CFM	% to design
SGRD1	104	SG1SS	30	3200	1.4	1612	2250	2167	3033	3033	94.8
Total				3200			2250		3033	3033	94.78%