

Report By:

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



**Report: Prelim Prep report**  
**Function: Test, Adjust, & Balance**  
**Date: 02/23/2024**

# PROJECT

## 6888 Kitchens-Dayton Arcade #4879395

32 S. Ludlow Street

Dayton, OH 45402

### Client

CAPTIVE-AIRE R120  
1329 E. Kemper Road  
Suite 4210  
Cincinnati, OH 45246

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Project: 6888 Kitchens-Dayton Arcade #4879395

System/Unit: AHU/RTU



Asset: DOAS-RTU1

AREA:CT114

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Serial Num	-	
Model Num	NA	CASRTU4-I.600-30-30T
Configuration	VERTICAL	
Num OA Filters 1	-	12
OA Filter Size 1	-	
Num PreFilter 1	-	12
PreFilter Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	10.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	
Service Factor	-	

Test Data		
	Design	Actual
SF CFM	0	
RA CFM	0	
OA CFM	5700	
RL Voltage	208	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.20	
Fan Total SP	-	

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## AHU/RTU



**Diffuser Supply (GRD)**

**DOAS-RTU1/CT114**

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
1-1	CT107	A1	12	650			-
1-2	CT105	A4	6	100			-
1-3	CT104	A4	6	100			-
1-4	HALL	A1	10	350			-
1-5	CT103	A1	10	350			-
1-6	CT107						
1-7	CT116	A1	12	500			-
1-8	CT115	A1	12	400			-
1-9	HALL	C1	16X10	300			-
1-10	HALL	A1	14	700			-
Total				3450	0	0	0%

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## System/Unit: AHU/RTU



Asset: DOAS-RTU2

AREA:SHIPPING

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Serial Num	-	
Model Num	NA	CASRTU4-I.600-30-30T
Configuration	VERTICAL	
Num OA Filters 1	-	12
OA Filter Size 1	-	
Num PreFilter 1	-	12
PreFilter Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	10.0	
Motor Rpm	-	
Phase	3	
Rated Voltage	208	
Rated Amperage	-	
Service Factor	-	

Test Data		
	Design	Actual
SF CFM	0	
RA CFM	0	
OA CFM	5700	
RL Voltage	208	
RL Amperage	-	
OA Damper Position	-	
Brake Horse Power	-	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	0.80	
Fan Total SP	-	

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## AHU/RTU



### Diffuser Supply (GRD)

#### DOAS-RTU2/SHIPPING

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1	HALL	A1	14	700			-
2-2	CT114	A1	14	715			-
2-3	CT114	A1	14	715			-
2-4	CT114	A1	14	715			-
2-5	CT114	A1	14	715			-
2-6	CT114	A1	14	715			-
2-7	CT114	A1	14	715			-
2-8	SHIPPING	A1	14	710			-
Total				5700	0	0	0%

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## System/Unit: FAN - Exhaust



Asset: KEF-2

AREA:POD A

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	USBI24DD-RM
Serial Num	-	
Type	CRE UPBLAST	

Test Data		
	Design	Actual
CFM	1800	
RL Voltage	-	208
RL Amperage	-	15.8
Total ESP	2.50	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	2.0	
Motor Rpm	585	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	15.8
Service Factor	-	

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## System/Unit: FAN - Exhaust



Asset: KEF-3

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU240HFA
Serial Num	-	
Type	CRE UPBLAST	

Test Data		
	Design	Actual
CFM	5514	
RL Voltage	-	208
RL Amperage	-	15.5
Total ESP	1.60	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.0	
Motor Rpm	1012	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	15.5
Service Factor	-	

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## System/Unit: FAN - Exhaust



Asset: KEF-4

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	DU240HFA
Serial Num	-	
Type	CRE UPBLAST	

Test Data		
	Design	Actual
CFM	5514	
RL Voltage	-	208
RL Amperage	-	15.5
Total ESP	1.65	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.0	
Motor Rpm	1022	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	15.5
Service Factor	-	

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## System/Unit: FAN - Supply



Asset: MAU-1

AREA:COOKLINE 2

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	A2-D.500-20D-MPU
Serial Num	-	
Type	GAS FIRED	
Configuration	HORIZONTAL	
Num Filters Size 1	-	
Filter Size 1	-	

Test Data		
	Design	Actual
CFM	4300	
SF RPM	1729	
RL Voltage	-	208
RL Amperage	-	15.0
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.55	
Brake Horse Power	-	2.899

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	5.00	
Motor Rpm	1729	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	15.0
Service Factor	-	

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Project: 6888 Kitchens-Dayton Arcade #4879395

System/Unit: Kitchen Hood Type I



Asset: KH-5

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	TYPE I
Hood length	126	126"
Hood Width	54	54"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO FILTERS
Filter Size 1	16X16	16X16
Filter Qty 1	7	7
Filter AK factor size 1	-	1.62
Filter Total AK Area	-	11.34
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1838	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	

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## System/Unit: Kitchen Hood Type I



Asset: KH-6

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	TYPE I
Hood length	138	138"
Hood Width	54	54"

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRATE SOLO FILTER
Filter Size 1	-	16X16
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1898	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	

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## System/Unit: Kitchen Hood Type I



Asset: KH-7

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	
Hood length	126	
Hood Width	54	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1838	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	

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## System/Unit: Kitchen Hood Type I



Asset: KH-8

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	
Hood length	126	
Hood Width	54	
Supply Plenum Type	-	PSP
Supply Plenum Width	12	
Supply Plenum Length	138	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1838	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	-	
Kv factor (Vel)	-	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	1455	

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## System/Unit: Kitchen Hood Type I



Asset: KH-9

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	
Hood length	138	
Hood Width	54	
Supply Plenum Type	-	PSP
Supply Plenum Width	12	
Supply Plenum Length	126	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1898	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	-	
Kv factor (Vel)	-	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	1322	

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## System/Unit: Kitchen Hood Type I



Asset: KH-10

AREA:COOKLINE

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	5424 ND-2
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	
Hood length	126	
Hood Width	54	
Supply Plenum Type	-	PSP
Supply Plenum Width	12	
Supply Plenum Length	138	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1838	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	
Item 3	-	
Item 4	-	
Item 5	-	

Test Data Supply		
	Design	Actual
Total AK Area	-	
Kv factor (Vel)	-	
Num of Readings	-	
Reading1 FPM	-	
Reading2 FPM	-	
Reading3 FPM	-	
Reading4 FPM	-	
Reading5 FPM	-	
Reading6 FPM	-	
Reading7 FPM	-	
Reading8 FPM	-	
Reading9 FPM	-	
Reading10 FPM	-	
Reading11 FPM	-	
Reading12 FPM	-	
Reading13 FPM	-	
Reading14 FPM	-	
Ave FPM(corr)	-	
CFM	1455	

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## System/Unit: Kitchen Hood Type I



Asset: KH-11

AREA:POD A

Unit Data		
	Design	Actual
MFG	NA	CAPTIVEAIRE
Model Num	NA	HD11-CT116-A
Job / Serial Num	-	4879395
Type	TYPE I CANOPY	
Hood length	84	
Hood Width	54	

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	
Filter Size 1	-	
Filter Size 2	-	
Filter Qty 1	-	
Filter Qty 2	-	
Filter AK factor size 1	-	
Filters AK factor size 2	-	
Filter Total AK Area	-	
Filter1 FPM	-	
Filter2 FPM	-	
Filter3 FPM	-	
Filter4 FPM	-	
Filter5 FPM	-	
Filter6 FPM	-	
Filter7 FPM	-	
Filter8 FPM	-	
Filter9 FPM	-	
Filter10 FPM	-	
Filter11 FPM	-	
Filter12 FPM	-	
Filter Ave FPM(corr)	-	
CFM	1225	

Cooking Equipment		
	Design	Actual
Item 1	-	
Item 2	-	