

Report By:

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

NATIONAL

TAB

Comfort. Under control.

**Report: PRELIM
Function: Test, Adjust, & Balance
Date: 9/6/2022**

**PROJECT
07-25 OSHKOSH CORRECTIONAL -
OSHKOSH, WI**

1730 W SNELL RD

OSHKOSH, WI

Client

Accurex

PO Box 410

Schofield, WI 54476

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF1

AREA:

Unit Data		
	Design	Actual
MFG	NA	ACCUREX
Model Num	NA	CUBE-180HP-30-1-30-G
Serial Num	-	19215107
Type	-	UPBLAST
Configuration	-	VERTICAL

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	182T
Horsepower	2	3.0
Motor Rpm	-	1765
Phase	3	3
Voltage (rated)	208	230/460
Amperage (rated)	-	8.4/4.2
Service Factor	-	1.15

Drive Data		
	Design	Actual
Motor Sheave Size	-	VP56
Motor Bore Size	-	1-1/8"
Motor Sheave SetPt	-	1.5 TURNS OPEN
Fan Sheave Size	-	AX59
Fan Sheave Bore	-	1"
Belt CL Distance	-	7"
Num of Belts	-	1
Belt Size	-	AP29

Test Data		
	Design	Actual
CFM	3300	3357
Fan RPM	-	1540
Fan Rotation	-	CCW
Motor RPM	-	1786
RL Voltage	-	NR [1]
RL Amperage	-	NR [1]
Suction ESP	-	-1.23"
Discharge ESP	-	ATM
Total ESP	-	1.23"

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Notes: [1] COULD NOT READ SAFELY

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

System/Unit: FAN - Supply



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Asset: MAU1

AREA:

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

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

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

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	
Flame Status (pass/fail)	-	
Inlet Air Temp SetPt	-	
Discharge Air Temp SetPt	-	
Air Flow Switch SP Actual	-	

Test Data		
	Design	Actual
CFM	2970	
SF RPM	-	
Motor RPM	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	-	
Fan Discharge SP	-	

General		
	Design	Actual
Fan Rotation Correct	-	

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	ACCUREX	ACCUREX
Model Num	XBEW-180-S	XBEW-180-S
Job / Serial Num	-	19413721
Type	TYPE I LOW PROXIMITY	TYPE I LOW PROFILE
Hood length	180"	180"
Hood Width	75"	75"
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14"
Supply Plenum Length	180"	180"

Test Data Exhaust		
	Design	Actual
Filter Type	BAFFLE	BAFFLE
Filter Size 1	20X16	20X16
Filter Size 2	20X20	20X20
Filter Qty 1	5	5
Filter Qty 2	5	5
Filter AK factor size 1	1.96	1.96
Filters AK factor size 2	2.40	2.40
Filter Total AK Area	21.8	21.80
Filter1 FPM	-	176
Filter2 FPM	-	157
Filter3 FPM	-	192
Filter4 FPM	-	171
Filter5 FPM	-	146
Filter6 FPM	-	125
Filter7 FPM	-	121
Filter8 FPM	-	141
Filter9 FPM	-	129
Filter10 FPM	-	177
Filter Ave FPM(corr)	-	154
CFM	3300	3357

Cooking Equipment		
	Design	Actual
Item 1	-	OVEN
Item 2	-	OVEN
Item 3	-	OVEN

Test Data Supply		
	Design	Actual
Total AK Area	17.5	17.5
Kv factor (Vel)	0.89	0.89
Num of Readings	-	20
Reading1 FPM	-	195
Reading2 FPM	-	168
Reading3 FPM	-	213
Reading4 FPM	-	134
Reading5 FPM	-	201
Reading6 FPM	-	186
Reading7 FPM	-	228
Reading8 FPM	-	206
Reading9 FPM	-	219
Reading10 FPM	-	248
Reading11 FPM	-	198
Reading12 FPM	-	226
Reading13 FPM	-	193/169/172
Reading14 FPM	-	169/130/165/151/158
Ave FPM(corr)	-	186
CFM	2970	2897

Performance Data		
	Design	Actual
Exh-Supply Net CFM	330	460
Smoke Generation Type	-	45 SEC SMOKE EMITTER
Cooking Equip Heat On	-	NO
Hood Capture %	-	100%
End Panels Installed (Y/N)	-	NO
Space Offset Temp Riser 1	-	15
Space Offset Temp Riser 2	-	NA
Riser Temp F (idle) Riser 1	-	NA
Riser Temp F (idle) Riser 2	-	NA
Ambient Room Temp	-	NA

General		
	Design	Actual
Third Party Witness	-	PRISON GUARD
Third Party Company	-	NA
Tech Witness	-	MICHAEL MCDONNELL

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: SP1

AREA:

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Supply Plenum Type	ASP	ASP
Supply Plenum Width	14"	14"
Supply Plenum Length	147"	147"

Test Data Supply		
	Design	Actual
AK factor	12.72	12.72
Kv factor (Vel)	0.89	0.89
Num of Readings	-	16
Reading1 FPM	-	273
Reading2 FPM	-	273
Reading3 FPM	-	309
Reading4 FPM	-	244
Reading5 FPM	-	266
Reading6 FPM	-	269
Reading7 FPM	-	273
Reading8 FPM	-	264
Reading9 FPM	-	276
Reading10 FPM	-	215
Reading11 FPM	-	238
Reading12 FPM	-	189
Reading13 FPM	-	294
Reading14 FPM	-	250/303/318
Ave FPM(corr)	-	266
CFM	2156	3383

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: SP2

AREA:LEFT

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Supply Plenum Type	ASP	ASP
Supply Plenum Width	14"	14"
Supply Plenum Length	120"	120"

Test Data Supply		
	Design	Actual
AK factor	10.38	10.38
Kv factor (Vel)	0.89	0.89
Num of Readings	-	20
Reading1 FPM	-	195
Reading2 FPM	-	168
Reading3 FPM	-	213
Reading4 FPM	-	134
Reading5 FPM	-	201
Reading6 FPM	-	186
Reading7 FPM	-	228
Reading8 FPM	-	206
Reading9 FPM	-	219
Reading10 FPM	-	248
Reading11 FPM	-	198
Reading12 FPM	-	226
Reading13 FPM	-	193
Reading14 FPM	-	169/172/169/130/165/151/158
Ave FPM(corr)	-	186
CFM	1980	1930

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Project: 07-25 OSHKOSH CORRECTIONAL - OSHKOSH, WI

System/Unit: Kitchen Hood Type I



Comfort. Under control.

Asset: SP2

AREA:RIGHT

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Supply Plenum Type	ASP	ASP
Supply Plenum Width	14"	14"
Supply Plenum Length	120"	120"

Test Data Supply		
	Design	Actual
AK factor	10.38	10.38
Kv factor (Vel)	0.89	0.89
Num of Readings	-	20
Reading1 FPM	-	215
Reading2 FPM	-	200
Reading3 FPM	-	198
Reading4 FPM	-	140
Reading5 FPM	-	168
Reading6 FPM	-	185
Reading7 FPM	-	250
Reading8 FPM	-	209
Reading9 FPM	-	194
Reading10 FPM	-	142
Reading11 FPM	-	227
Reading12 FPM	-	284
Reading13 FPM	-	228
Reading14 FPM	-	313/267/279/272/306/318/300
Ave FPM(corr)	-	235
CFM	1980	2439

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Notes: