

Report By:

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

NATIONAL

TAB

Comfort. Under control.

**Report: REVIVE REPORT
Function: Test, Adjust, & Balance
Date: 03/10/2023**

PROJECT

**02-20-23 FREDDY'S - MCDONOUGH, GA
(REVIVE)**

1410 HWY 20 W

MCDONOUGH , GA

Client

JRI Hospitality Management
621 Westport Blvd
Salina, KS 67401

National TAB

Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 01 - Grill not centered

Description : Grill is not centered under the hood and is primary reason for the poor smoke capture. Island hood needs 12" of overhang on all sides. The only smoke loss is noted on the side without overhang.

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 02/27/2023 - Will Turnbough - National TAB

Project Issue File Details



Grillright.jpeg



Grillleft.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 02 - RTU FAN CABINET

Description : FAN CABINET DIRTY

Created By : National TAB

Assigned To : National TAB - William Patton

Status : Open

Originated Date : 02/23/2023 - William Patton - National TAB

Project Issue File Details



RTU3FANCABINET.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 03 - RTU adjustable motor pulleys

Description : Recommend ensuring that the adjustable motor pulleys for all RTU's can be adjusted so that airflows can be balanced. If they are found to be seized recommend breaking free or ordering a new identical pulley.

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 03/10/2023 - Will Turnbough - National TAB



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Project Issue Information

Issue Name : 04 - Diffusers throughout kitchen are dirty

Description : Recommend cleaning

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 02/27/2023 - Will Turnbough - National TAB

Project Issue File Details



Diffuser1.jpeg



Diffuser2.jpeg



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Project Issue Information

Issue Name : 05 - ACSPS is dirty

Description : Recommend dropping the AC-ssp portion and cleaning the top and bottom of the perforated grilles.

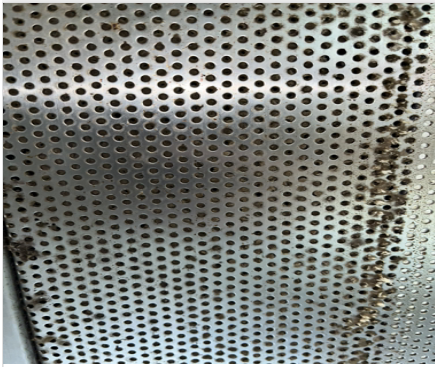
Created By : National TAB

Assigned To : National TAB - Will Turnbough

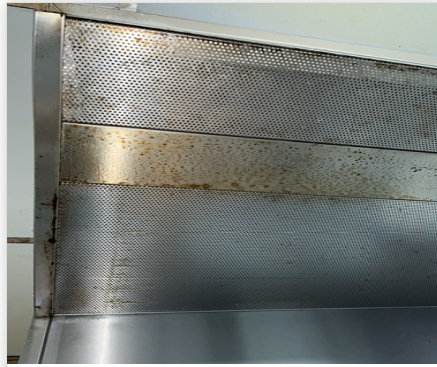
Status : Open

Originated Date : 03/10/2023 - Will Turnbough - National TAB

Project Issue File Details



Acsp.jpeg



Acsp2.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 06 - RTU3 coil

Description : RTU3 evaporator coil is starting to freeze. Likely due to low airflow

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 03/10/2023 - Will Turnbough - National TAB

Project Issue File Details



Rtu3coil.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 07 - 4 way diffusers

Description : Recommend changing 4 way diffusers in the kitchen to perforated style. 4 way diffusers near the hood cause drafts which result in poor hood capture

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 02/27/2023 - Will Turnbough - National TAB

Project Issue File Details



4ways.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 08 - RTU3 Economizer

Description : Rtu3 economizer was found unplugged. Plugged in but damper didn't move. Recommend repair

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 03/10/2023 - Will Turnbough - National TAB

Project Issue File Details



Econ3.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

Project Issue Information

Issue Name : 09 - Drive thru door and air curtain not functional

Description : Door and air curtain need to be repaired to prevent air drafts when door is open. The draft travels thru the space and makes smoke capture worse on fryer and griddle.

Created By : National TAB

Assigned To : National TAB - Will Turnbough

Status : Open

Originated Date : 02/27/2023 - Will Turnbough - National TAB

Project Issue File Details



Driverthru.jpeg

Project Issue Response Details

- **02/27/2023 National TAB - Will Turnbough**
 - Video of fryer capture when the drive thru door is open and air curtain not operational
 1. [Open](#) FryerVideo.MOV



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Project Issue Information

Issue Name : 10 - RTU-3 OA filter is dirty

Description : Recommend cleaning.

Created By : National TAB

Assigned To : National TAB - William Patton

Status : Open

Originated Date : 02/23/2023 - William Patton - National TAB

Project Issue File Details



RTU3FILTER.jpeg



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Project Issue Information

Issue Name : 11 - CONDENSATE LINES

Description : Condensate drain lines found disconnected for all units. Recommend reconnecting. Water is pooling on the roof.

Created By : National TAB

Assigned To : National TAB - William Patton

Status : Open

Originated Date : 02/23/2023 - William Patton - National TAB

Project Issue File Details



CONDENSATE-RTU3.jpeg



CONDENSATE-RTU2.jpeg



CONDENSATE-RTU1.jpeg



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02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

CheckList Information

Name : TECH - SITE PICTURES **Status :** NotSubmitted
Assigned Organization : National TAB **Asset :**
Requesting Organization : National TAB

CheckList Item Details

STORE FRONT

RTU-1

RTU-2

RTU-3

KEF-1

KEF-2

EF-1

EF-2

MUA-1

HOOD-1

HOOD-2

Notes/Comments :

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: AHU/RTU



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Asset: RTU1

AREA:DINING

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	LENNOX	TRANE	SF CFM	3000	2465
Serial Num	-	14191727L	RA CFM	2497	1820
Model Num	KGA092S4B	YSC090F3RMA08H101A1000000000	0A00CFM	503	645
Type	RTU	RTU	Performance Data		
Configuration	VERTICAL	VERTICAL		Design	Actual
Num OA Filters 1	-	1	General		
OA Filter Size 1	-	15X36		Design	Actual
Num Final Filter 1	-	4	Fan Rotation Correct		
Final Filter Size 1	-	16X24X2	Unit Filters Clean	-	YES

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	3	3
Motor Rpm	-	1725/1425
Phase	3	3
Rated Voltage	208	208-230/4.7
Rated Amperage	-	9.4-9.2/4.6

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44
Motor Bore Size	-	7/8"
Fan Sheave Size	-	AK56X
Fan Sheave Bore	-	1"
Belt CL Distance	-	10"
Num of Belts	-	1
Belt Size	-	AX32

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Notes:

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: AHU/RTU



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Asset: RTU2

AREA:DINING, RR

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	LENNOX	TRANE	SF CFM	3000	2750
Serial Num	-	141911740L	RA CFM	2497	1985
Model Num	KGA092S4B	YSC090F3RMA08H101A1000000000	0A00F0000000	503	765
Type	RTU	RTU			
Configuration	VERTICAL	VERTICAL	Performance Data		
Num OA Filters 1	-	1		Design	Actual
OA Filter Size 1	-	15X36"	General		
Num Final Filter 1	-	4		Design	Actual
Final Filter Size 1	-	16X25X2		Design	Actual
			Fan Rotation Correct	-	YES
			Unit Filters Clean	-	YES

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	3	3
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	9.4-9.2/4.6

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL44
Motor Bore Size	-	7/8"
Fan Sheave Size	-	AK56
Fan Sheave Bore	-	1"
Belt CL Distance	-	10
Num of Belts	-	1
Belt Size	-	AX32

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: AHU/RTU



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Asset: RTU3

AREA:KITCHEN

Unit Data			Test Data		
	Design	Actual		Design	Actual
MFG	LENNOX	TRANE	SF CFM	5000	
Serial Num	-	14910603D	SF RPM	-	767
Model Num	KGA150S4B	YSD150F36LA03H001A10000000000	RA CFM	4626	
Type	RTU	RTU	OA CFM	374	403
Configuration	VERTICAL	VERTICAL	RL Voltage	-	213/212/212
Num OA Filters 1	-	1	RL Amperage	-	5.6/5.8/5.3
OA Filter Size 1	-	15X47.75	SF Rotation	-	
Num Final Filter 1	-	6	RA Damper Position	-	
Final Filter Size 1	-	20X25X2	Min OA Damper Position	-	
Num Final Filter 2	-		Min OA Damper Type	-	
Final Filter Size 2	-		OA Enthalpy Setpt	-	

Motor Data		
	Design	Actual
Motor MFG	-	MARATHON
Frame	-	56HZ
Horsepower	5	3
Motor Rpm	-	1725
Phase	3	3
Rated Voltage	208	208-230/460
Rated Amperage	-	9.4-9.2/4.6

Performance Data		
	Design	Actual
MA Plenum SP	-	-0.26
Fan Suction SP	-	-0.33
Fan Discharge SP	-	0.14
Total ESP	1.0"	
Fan Total SP	-	

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VP44
Motor Bore Size	-	7/8"
Motor Sheave SetPt	-	
Fan Sheave Size	-	BK90
Fan Sheave Bore	-	1
Belt CL Distance	-	TENSIONER
Num of Belts	-	1
Belt Size	-	BX62
Belt Alignment	-	

General		
	Design	Actual
Fan Rotation Correct	-	YES
Unit Filters Clean	-	YES

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Project:02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

AHU/RTU



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Diffuser Supply (GRD)

RTU3/KITCHEN

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU3-SGRD1						224			
RTU3-SGRD2						209			
RTU3-SGRD3						310			
RTU3-SGRD4						341			
RTU3-SGRD5						150			
RTU3-SGRD6						375			
RTU3-SGRD7						399			
RTU3-SGRD8						186			
RTU3-SGRD9						217			
RTU3-SGRD10	HD2 ACPSP				2.41	67			
RTU3-SGRD11	HD2 ACPSP				2.41	80			
RTU3-SGRD12	HD1 ACPSP				1.69	125			

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: FAN - Exhaust



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Asset: EF1

AREA:MENS RR

Unit Data		
	Design	Actual
MFG	COOK	COOK
Model Num	GC-164	GC-164
Serial Num	-	
Type	CEILING	
Configuration	VERTICAL	

Test Data		
	Design	Actual
CFM	150	
Fan RPM	1300	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.25"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	136W	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Completed By: Brianna Biggs

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: EF2

AREA:WOMENS RR

Unit Data		
	Design	Actual
MFG	COOK	COOK
Model Num	GC-164	GC-164
Serial Num	-	
Type	CEILING	
Configuration	VERTICAL	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	136W	
Motor Rpm	-	
Phase	1	
Voltage (rated)	120	
Amperage (rated)	-	
Service Factor	-	

Test Data		
	Design	Actual
CFM	150	
Fan RPM	1300	
Fan Rotation	-	
Motor RPM	-	
System SetPt	-	
RL Voltage	-	
RL Amperage	-	
Total ESP	0.25"	
Fan Inlet SP	-	
Fan Discharge SP	-	

Completed By: Brianna Biggs

Notes:

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: FAN - Exhaust



Comfort. Under control.

Asset: KEF1

AREA:KEH-2

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA16HPFA	NCA16HPFA
Serial Num	-	1889993
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	2076	1983
RL Voltage	-	212/212/213
RL Amperage	-	2.9/2.9/2.8

Motor Data		
	Design	Actual
Horsepower	1.0	1
Phase	3	3
Voltage (rated)	208	208
Amperage (rated)	-	3.3

Drive Data		
	Design	Actual

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Notes:

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: FAN - Exhaust



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Asset: KEF2

AREA:KEH-1

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	NCA8FA	NCA8FA
Serial Num	-	1889993
Type	UPBLAST	UPBLAST
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	825	899
RL Voltage	-	123
RL Amperage	-	6.5

Motor Data		
	Design	Actual
Horsepower	0.5	0.5
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	8

Drive Data		
	Design	Actual

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: FAN - Supply



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Asset: MUA-1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	A1-D.250-G10	A1-D.250-G10
Serial Num	-	1889993
Type	MUA	MUA
Configuration	VERTICAL	VERTICAL

Test Data		
	Design	Actual
CFM	2321	1072
SF RPM	1109	957
Motor RPM	-	1777
RL Voltage	-	211/211/212
RL Amperage	-	2.5/2.2/2.3

Motor Data		
	Design	Actual
Motor MFG	-	Century
Frame	-	J56
Horsepower	1.5	1.0
Motor Rpm	-	1725
Phase	3	3
Voltage (rated)	208	200-230/460
Amperage (rated)	-	3.4-3.6/1.8
Service Factor	-	1.25

General		
	Design	Actual
Fan Rotation Correct	-	YES

Drive Data		
	Design	Actual
Motor Sheave Size	-	1VL40
Motor Bore Size	-	5/8"
Fan Sheave Size	-	AK54
Fan Sheave Bore	-	3/4"
Belt CL Distance	-	15 5/8"
Num of Belts	-	1
Belt Size	-	AX40

Gas Heat		
	Design	Actual
Heater Operates (y/n)	-	YES
Flame Status (pass/fail)	-	PASS
Inlet Air Temp SetPt	55	50
Discharge Air Temp SetPt	60	55
Air Flow Switch SP Actual	-	.22

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Notes:

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: Kitchen Hood Type I



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Asset: HD1

AREA:

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	5424 ND-2-ACPSP-F	5424 ND-2-ACPSP-F
Type	TYPE I CANOPY	TYPE I CANOPY
Hood length	52	52
Hood Width	54"	54
Supply Plenum Type	-	PSP
Supply Plenum Width	14"	14
Supply Plenum Length	52"	52

Test Data Supply		
	Design	Actual
Total AK Area	5.05	5.05
Kv factor (Vel)	0.89	0.89
Reading1 FPM	-	89
Reading2 FPM	-	61
Reading3 FPM	-	66
Reading4 FPM	-	82
Ave FPM(corr)	-	67
CFM	660	338

Test Data Exhaust		
	Design	Actual
Filter Type	SS BAFFLE	SS BAFF
Filter Size 1	20X16	20X16
Filter Qty 1	3	3
Filter AK factor size 1	2.08	2.08
Filter Total AK Area	6.24	6.24
Filter1 FPM	-	137
Filter2 FPM	-	146
Filter3 FPM	-	148
Filter Ave FPM(corr)	-	144
CFM	825	899

Cooking Equipment		
	Design	Actual
Item 1	-	FRYERS

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Notes:

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: Kitchen Hood Type I



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Asset: HD2

AREA:FRONT

Unit Data		
	Design	Actual
MFG	CAPTIVEAIRE	CAPTIVEAIRE
Model Num	8424-NDI-ACPSP-FB	8424-NDI-ACPSP-FB
Type	TYPE I ISLAND	TYPE I ISLAND
Hood length	72	72
Hood Width	84	84
Supply Plenum Type	-	PSP
Supply Plenum Width	14	14
Supply Plenum Length	74	74

Test Data Supply		
	Design	Actual
Total AK Area	7.19	14.39
Kv factor (Vel)	0.89	0.89
Reading1 FPM	-	71
Reading2 FPM	-	52
Reading3 FPM	-	57
Reading4 FPM	-	63
Reading5 FPM	-	19
Reading6 FPM	-	47
Reading7 FPM	-	72
Reading8 FPM	-	51
Reading9 FPM	-	44
Reading10 FPM	-	78
Reading11 FPM	-	68
Reading12 FPM	-	60
Ave FPM(corr)	-	51
CFM	1660	734

Test Data Exhaust		
	Design	Actual
Filter Type	CAPTRATE SOLO	CAPTRARE SOLO
Filter Size 1	16X16	16X16
Filter Qty 1	8	8
Filter AK factor size 1	1.62	1.62
Filter Total AK Area	12.96	12.96
Filter1 FPM	-	151
Filter2 FPM	-	155
Filter3 FPM	-	149
Filter4 FPM	-	150
Filter5 FPM	-	148
Filter6 FPM	-	153
Filter7 FPM	-	161
Filter8 FPM	-	158
Filter Ave FPM(corr)	-	153
CFM	2076	1983

Cooking Equipment		
	Design	Actual
Item 1	-	GRIDDLE

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Project: 02-20-23 FREDDY'S - MCDONOUGH, GA (REVIVE)

System/Unit: Kitchen Hood Type I



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Asset: PSP1

AREA:FRONT

Unit Data		
	Design	Actual
MFG	NA	NA
Model Num	NA	NA
Supply Plenum Type	ACPSP	
Supply Plenum Width	14"	
Supply Plenum Length	74"	

Test Data Supply		
	Design	Actual
AK factor	7.19	
Kv factor (Vel)	0.89	
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	410	

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Notes: