

**Report By:**

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



**Report: PRELIM**  
**Function: Test, Adjust, & Balance**  
**Date: 02/02/2024**

**PROJECT**  
**Valvoline (Bellevue, WI)**

2171 MONROE RD

BELLEVUE, WI 54311

**Client**

Air Temperature Services  
5301 Voges Road  
Madison , WI 53718

# National TAB

Project: Valvoline (Bellevue, WI)

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# National TAB

Project: Valvoline (Bellevue, WI)

## System/Unit: FAN - Exhaust



Asset: EF1

AREA:TOILET

Unit Data		
	Design	Actual
MFG	NA	LOREN COOK
Model Num	NA	GEMINI 140
Serial Num	-	615738
Configuration	CM	CEILING

Motor Data		
	Design	Actual
Horsepower	-	FRACTIONAL
Motor Rpm	970	970
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	0.4
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	100	91
Fan RPM	970	970
Fan Rotation	-	CORRECT
Motor RPM	-	970
System SetPt	-	HIGH SPEED (BLACK)
RL Voltage	-	121
RL Amperage	-	0.4

Completed By: Michael McDonnell on 02/02/2024

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Project: Valvoline (Bellevue, WI)

## System/Unit: FAN - Exhaust



Asset: EF2

AREA: BUILDING EXHAUST

Unit Data		
	Design	Actual
MFG	NA	LOREN COOK
Model Num	NA	135SQN17DVF
Serial Num	-	NA
Configuration	-	HORIZONTAL INLINE

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	0.50	0.50
Motor Rpm	1436	NA
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	1665	1672
Fan RPM	1436	NA
Fan Rotation	-	NA
Motor RPM	-	NA
System SetPt	-	NA
RL Voltage	-	NA
RL Amperage	-	NA
Total ESP	0.50	NA
Fan Inlet SP	-	NA
Fan Discharge SP	-	ATM

Completed By: Michael McDonnell on 02/02/2024

Notes:  
[1] INLINE FAN IS INSTALLED IN ATTIC SPACE BEHIND HARD CEILING. NOT ACCESSIBLE.

Written By: Michael McDonnell on 02/02/2024

# National TAB

Project:Valvoline (Bellevue, WI)

## FAN - Exhaust



Diffuser Ret/Exh (GRD)

### EF2/BUILDING EXHAUST

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF2-EGRD1	EG1	20	1665					-
Total			1665		0	0	0	0%

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Project: Valvoline (Bellevue, WI)

## System/Unit: FAN - Exhaust



Asset: EF3

AREA:BUILDING EXHAUST

Unit Data		
	Design	Actual
MFG	NA	LOREN COOK
Model Num	NA	120SQN17DVF
Serial Num	-	012SK76404-00/0003501
Configuration	-	HORIZONTAL INLINE

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	0.50	0.50
Motor Rpm	1376	NA
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NA
Service Factor	-	NA

Test Data		
	Design	Actual
CFM	1055	1036
Fan RPM	1376	1055
Fan Rotation	-	CORRECT
Motor RPM	-	1055
System SetPt	-	57%
RL Voltage	-	121
RL Amperage	-	NA [1]
Total ESP	0.50	NA [1]
Fan Inlet SP	-	NA [1]
Fan Discharge SP	-	NA [1]

Completed By: Michael McDonnell on 02/02/2024

Notes:

[1] INLINE FAN MOUNTED IN ATTIC SPACE ABOVE HARD CEILING. NOT EASILY ACCESSIBLE. COULD NOT READ AMPERAGE AND VOLTS SAFELY. LIGHT SWITCH DISCONNECT.

Written By: Michael McDonnell on 02/02/2024

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Project:Valvoline (Bellevue, WI)

## FAN - Exhaust



Diffuser Ret/Exh (GRD)

### EF3/BUILDING EXHAUST

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF3-EGRD1	EG2	16	1055					-
Total			1055		0	0	0	0%

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Project: Valvoline (Bellevue, WI)

## System/Unit: FAN - Exhaust



Asset: TF1

AREA:PIT

Unit Data		
	Design	Actual
MFG	NA	LOREN COOK
Model Num	NA	120SQN17DVF
Serial Num	-	012SK76404-00/000070
Configuration	-	VERTICAL INLINE

Motor Data		
	Design	Actual
Motor MFG	-	NA
Frame	-	NA
Horsepower	0.50	0.50
Motor Rpm	1344	1725
Phase	1	1
Voltage (rated)	120	120
Amperage (rated)	-	NL
Service Factor	-	NL

Test Data		
	Design	Actual
CFM	1515	1587
Fan RPM	1344	1727
Fan Rotation	-	CORRECT
Motor RPM	-	1727
System SetPt	-	100%
RL Voltage	-	[1]
RL Amperage	-	[1]
Total ESP	0.50	0.404"
Fan Inlet SP	-	-0.374"
Fan Discharge SP	-	0.03"

Completed By: Michael McDonnell on 02/02/2024

Notes:  
[1] COULD NOT READ AMPS AND VOLTS SAFELY; LIGHTSWITCH DISCONNECT.

Written By: Michael McDonnell on 02/02/2024

# National TAB

Project: Valvoline (Bellevue, WI)

## System/Unit: Split Sys Furnace



Asset: F1

AREA:OFFICE AREA

Unit Data		
	Design	Actual
MFG	NA	TRANE
Model Num	NA	S9X1B060U4PSBAB
Serial Num	-	23412UBWMF
Configuration	-	VERTICAL
Filter Size Size 1	-	16X20X1

Motor Data		
	Design	Actual
Motor MFG	-	NL
Horsepower	0.50	0.50
Motor Rpm	-	NL
Phase	1	1
Voltage	120	120
Amperage	-	11.8

Test Data		
	Design	Actual
SF CFM	1100	1094
Motor Speed SetPt	-	SPEED TAP 5
RL Voltage	-	121
RL Amperage	-	4.0
RA CFM	950	949
OA CFM	150	145

Performance Data		
	Design	Actual
Suction ESP	-	-0.171"
Discharge ESP	-	0.194"
Total ESP	0.50	0.365"

Completed By: Michael McDonnell on 02/02/2024

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Project:Valvoline (Bellevue, WI)

## Split Sys Furnace



### Diffuser Supply (GRD)

#### F1/OFFICE AREA

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
Furnace1-SGRD1	MECH	SG1	6	100	91	94	94.0
Furnace1-SGRD2	UTILITY	SD1	10	400	468	418	104.5
Furnace1-SGRD3	OFFICE	SD2	6	125	105	126	100.8
Furnace1-SGRD4	RR	SD2	6	75	132	74	98.7
Furnace1-SGRD5	WAITING	SD1	10	400	374	382	95.5
Total				1100	1170	1094	99.45%

### Diffuser Ret/Exh (GRD)

#### F1/OFFICE AREA

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
Furnace1-EGRD1	RG4	6	100	0.19	228	228	228	228.0
Furnace1-EGRD2	RG3	10	375	1.0	518	518	518	138.1
Furnace1-EGRD3	RG2	6	125	1.0	46	46	46	36.8
Furnace1-EGRD4	RG1	12	375	1.0	157	157	157	41.9
Total			975		949	949	949	97.33%

Completed By: Michael McDonnell on 02/02/2024

Asset	Notes	Date	Written By
Furnace1-EGRD1	[1] NO DAMPER INSTALLED	02/02/2024	Michael McDonnell
Furnace1-EGRD2	[1] NO DAMPER INSTALLED	02/02/2024	Michael McDonnell