



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-201

AREA:206-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH018EL004
Serial Num	-	240501392
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	11x11

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1/2
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208
Amperage	-	4.1
Brake Horsepower	-	

Test Data		
	Design	Actual
SA CFM	490	510
Motor Speed Setpt	-	SPEED TAP 2
RL Voltage	-	NA
RL Amperage	-	NA
RA CFM	455	472
OA CFM	35	38

Performance Data		
	Design	Actual
Suction ESP	-	-0.70"
Discharge ESP	-	0.07"
Total ESP	-	0.77"

Completed By: Cody Collett on 01/21/2025

Notes:
Volts and amps not accessible due to unit install location.

Written By: Cody Collett on 01/21/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-201/206-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-1-1	201-1	SR-1	8	163	139	172	105.5
2-1-2	201-1	SR-1	8	164	184	168	102.4
2-1-3	201-1	SR-1	8	163	213	170	104.3
Total				490	536	510	104.08%

Diffuser Ret/Exh (GRD)

WSHP-201/206-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-1-11	RR-2	10	455	1	472	472	472	103.7
Total			455		472	472	472	103.74%

Completed By: Cody Collett on 01/21/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-202

AREA:207-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH030ER004
Serial Num	-	240501393
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	23"X11"

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1/2
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208/230
Amperage	-	4.1
Brake Horsepower	-	0.231

Test Data		
	Design	Actual
SA CFM	890	938
SFAN RPM	-	NA
Motor Speed Setpt	-	Speed tap 3
RL Voltage	-	211
RL Amperage	-	1.9
RA CFM	890	938
OA CFM	-	0

Performance Data		
	Design	Actual
Suction ESP	-	-0.56"
Discharge ESP	-	0.04"
Total ESP	-	0.60"

Completed By: Cody Collett on 12/30/2024



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-202/207-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-2-1	207-1	SR-1	8	180	251	193	107.2
2-2-2	207-1	SR-1	8	175	126	179	102.3
2-2-3	207-1	SR-1	8	180	214	195	108.3
2-2-4	207-1	SR-1	8	175	261	189	108.0
2-2-5	207-1	SR-1	8	180	162	182	101.1
Total				890	1014	938	105.39%

Diffuser Ret/Exh (GRD)

WSHP-202/207-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-2-1	RR-1		890	1	1014	1014	938	105.4
Total			890		1014	1014	938	105.39%

Completed By: Cody Collett on 12/30/2024



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-203

AREA:203-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH042EL004
Serial Num	-	24051395
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	Note [2]
Filter Size 1	-	24X14

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208/230
Amperage	-	7.6
Brake Horsepower	-	0.421

Test Data		
	Design	Actual
SA CFM	1325	1287
Motor Speed Setpt	-	Speed tap 3
RL Voltage	-	211
RL Amperage	-	3.2
RA CFM	1288	1287
OA CFM	37	[1]

Performance Data		
	Design	Actual
Suction ESP	-	-0.21"
Discharge ESP	-	0.01"
Total ESP	-	0.22"

Completed By: Cody Collett on 01/24/2025

Notes:

[1] OA duct cannot be seen, accessed or measured due to install location.

[2] No filter installed; power to unit turned off after testing to prevent coil from clogging/clogging further.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-203/203-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-3-1	203-1	SR-1	10	225	210	210	93.3
2-3-2	203-1	SR-1	10	220	220	220	100.0
2-3-3	203-1	SR-1	10	220	212	212	96.4
2-3-4	203-1	SR-1	10	220	214	214	97.3
2-3-5	203-1	SR-1	10	220	213	213	96.8
2-3-6	203-1	SR-1	10	220	218	218	99.1
Total				1325	1287	1287	97.13%

Diffuser Ret/Exh (GRD)

WSHP-203/203-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-3-1	RR-6		1295		1287	1287	1287	99.4
Total			1295		1287	1287	1287	99.38%

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-204

AREA:209-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH042EL004
Serial Num	-	240501395
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	24X14

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208/230
Amperage	-	7.6
Brake Horsepower	-	0.421

Test Data		
	Design	Actual
SA CFM	1305	1347
Motor Speed Setpt	-	Speed tap 3
RL Voltage	-	212
RL Amperage	-	3.2
RA CFM	1275	1315
OA CFM	30	32

Performance Data		
	Design	Actual
Suction ESP	-	-0.29"
Discharge ESP	-	0.08"
Total ESP	-	0.37"

Completed By: Cody Collett on 01/24/2025

Notes:

[1] Filter Clogged; removed for testing.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-204/209-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-4-1	204-1	SR-1	10	218	220	220	100.9
2-4-2	204-1	SR-1	10	218	219	219	100.5
2-4-3	204-1	SR-1	10	218	227	227	104.1
2-4-4	204-1	SR-1	10	217	229	229	105.5
2-4-5	204-1	SR-1	10	217	224	224	103.2
2-4-6	204-1	SR-1	10	217	228	228	105.1
Total				1305	1347	1347	103.22%

Diffuser Ret/Exh (GRD)

WSHP-204/209-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-4-1	RR-6		1275		1315	1315	1315	103.1
Total			1275		1315	1315	1315	103.14%

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-205

AREA:201-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH060ER
Serial Num	-	24051396
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	12X36

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208/230
Amperage	-	7.6

Test Data		
	Design	Actual
SA CFM	1900	1756
Motor Speed Setpt	-	Speed Tap 5
RL Voltage	-	[1]
RL Amperage	-	[1]
RA CFM	1861	1715
OA CFM	39	41

Performance Data		
	Design	Actual
Suction ESP	-	-0.93"
Discharge ESP	-	0.25"
Total ESP	-	1.18"

Completed By: Cody Collett on 01/24/2025

Notes:

[1] Unable to safely read volts/amps due to inadequate access to controls compartment due to install location. Suction pressure is higher than expected; unit filter confirmed clean; return damper verified open.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-205/201-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-5-1	205-1	SR-1	10	211	191	191	90.5
2-5-2	205-1	SR-1	10	211	197	197	93.4
2-5-3	205-1	SR-1	10	211	193	193	91.5
2-5-4	205-1	SR-1	10	211	195	195	92.4
2-5-5	205-1	SR-1	10	211	199	199	94.3
2-5-6	205-1	SR-1	10	211	190	190	90.0
2-5-7	205-1	SR-1	10	211	196	196	92.9
2-5-8	205-1	SR-1	10	211	199	199	94.3
2-5-9	205-1	SR-1	10	211	196	196	92.9
Total				1899	1756	1756	92.47%

Diffuser Ret/Exh (GRD)

WSHP-205/201-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-5-1	RR-4		1861		1715	1715	1715	92.2
Total			1861		1715	1715	1715	92.15%

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-206

AREA:202

Unit Data		
	Design	Actual
Unit MFG	NA	WATER FURNACE
Model Num	NA	UBH070
Serial Num	-	240501397
Type	-	WATER SOURCE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	30"x18"x1"

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NA
Horsepower	-	1
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208
Amperage	-	7.6
Brake Horsepower	-	

Test Data		
	Design	Actual
SA CFM	2305	2491
Motor Speed Setpt	-	Speed tap 4
RL Voltage	-	NA
RL Amperage	-	NA
RA CFM	2243	2424
OA CFM	62	67

Performance Data		
	Design	Actual
Suction ESP	-	-0.12"
Discharge ESP	-	0.07"
Total ESP	-	0.19"

Completed By: Cody Collett on 01/22/2025

Notes:
Volts and amps unable to be read due to access restrictions due to installed location.

Written By: Cody Collett on 01/22/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-206/202

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-6-1	202-2	SR-1	10	210	35	216	102.9
2-6-2	202-2	SR-1	10	210	48	227	108.1
2-6-3	202-2	SR-1	10	210	55	231	110.0
2-6-4	202-2	SR-1	10	210	54	226	107.6
2-6-5	202-2	SR-1	10	210	53	230	109.5
2-6-6	202-1	SR-1	10	210	115	221	105.2
2-6-7	202-1	SR-1	10	209	135	229	109.6
2-6-8	202-1	SR-1	10	209	65	224	107.2
2-6-9	202-1	SR-1	10	209	216	228	109.1
2-6-10	202-1	SR-1	10	209	34	230	110.0
2-6-11	202-1	SR-1	10	209	163	229	109.6
Total				2305	973	2491	108.07%

Diffuser Ret/Exh (GRD)

WSHP-206/202

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-6-1	RR-3		2243	3.58	973	973	2424	108.1
Total			2243		973	973	2424	108.07%

Completed By: Cody Collett on 01/22/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-207

AREA:207-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH070EL
Serial Num	-	240501398
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	29.5x17.5

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208
Amperage	-	7.6
Brake Horsepower	-	

Test Data		
	Design	Actual
SA CFM	2280	1934
SFAN RPM	-	NA
Motor Speed Setpt	-	NA
RL Voltage	-	NA
RL Amperage	-	NA
RA CFM	2225	1875
OA CFM	55	59

Performance Data		
	Design	Actual
Suction ESP	-	-0.51"
Discharge ESP	-	NA
Total ESP	-	

Completed By: Cody Collett on 01/22/2025

Notes:

Unable properly use required height of ladder to safely access controls compartment for volts and amps or motor compartment to change speed due to size of room the unit is installed above and installed countertops preventing safe use ladder placement. Unable to measure discharge pressure for same reason. Return damper is open but cannot be locked in place due to same reason.

Written By: Cody Collett on 01/22/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-207/207-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-7-1	207-1	SR-1	10	190	165	165	86.8
2-7-2	207-1	SR-1	10	190	156	156	82.1
2-7-3	207-1	SR-1	10	190	161	161	84.7
2-7-4	207-1	SR-1	10	190	159	159	83.7
2-7-5	207-2	SR-1	10	190	167	167	87.9
2-7-6	207-2	SR-1	10	190	161	161	84.7
2-7-7	207-2	SR-1	10	190	169	169	88.9
2-7-8	207-2	SR-1	10	190	157	157	82.6
2-7-9	207-2	SR-1	10	190	162	162	85.3
2-7-10	207-1	SR-1	10	190	163	163	85.8
2-7-11	207-1	SR-1	10	190	156	156	82.1
2-7-13	207-1	SR-1	10	190	158	158	83.2
Total				2280	1934	1934	84.82%

Diffuser Ret/Exh (GRD)

WSHP-207/207-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-7-1	RR-3		2245		1875	1875	1875	83.5
Total			2245		1875	1875	1875	83.52%

Completed By: Cody Collett on 01/22/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-208

AREA:204-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH070EL
Serial Num	-	240501399
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	17.5x29.5

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208
Amperage	-	7.6
Brake Horsepower	-	

Test Data		
	Design	Actual
SA CFM	2265	1688
SFAN RPM	-	NA
Motor Speed Setpt	-	Note [2]
RL Voltage	-	Note [1]
RL Amperage	-	Note [1]
RA CFM	2212	1688
OA CFM	53	Note [3]

Performance Data		
	Design	Actual
Suction ESP	-	-0.58"
Discharge ESP	-	0.11"
Total ESP	-	0.69"

Completed By: Cody Collett on 01/22/2025

Notes:

- [1] Unable to safely access amps and volts due to install location obstructions
- [2] Unable to adjust fan speed due to motor compartment being blocked from opening by a pipe support that has tension against the door.
- [3] Unable to read OA CFM; cannot access OA duct or view damper.

Written By: Cody Collett on 01/22/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-208/204-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	208-1	SR-1	10	227	159	159	70.0
SGRD2	208-1	SR-1	10	227	174	174	76.7
SGRD3	208-1	SR-1	10	227	172	172	75.8
SGRD4	208-1	SR-1	10	227	175	175	77.1
SGRD5	208-1	SR-1	10	227	166	166	73.1
SGRD6	208-2	SR-1	10	226	170	170	75.2
SGRD7	208-2	SR-1	10	226	164	164	72.6
SGRD8	208-2	SR-1	10	226	178	178	78.8
SGRD9	208-2	SR-1	10	226	159	159	70.4
SGRD10	208-2	SR-1	10	226	171	171	75.7
Total				2265	1688	1688	74.53%

Diffuser Ret/Exh (GRD)

WSHP-208/204-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	RR-3		2212		1688	1688	1688	76.3
Total			2212		1688	1688	1688	76.31%

Completed By: Cody Collett on 01/22/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-209

AREA:205-1

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH070ER004
Serial Num	-	240501400
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	30X18

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1
Motor Rpm	-	NA
Phase	-	1
Voltage	-	208/230
Amperage	-	7.6
Brake Horsepower	-	0.657

Test Data		
	Design	Actual
SA CFM	2315	1853
Motor Speed Setpt	-	Note [2]
RL Voltage	-	213
RL Amperage	-	5.0
RA CFM	2255	1790
OA CFM	60	63

Performance Data		
	Design	Actual
Suction ESP	-	-0.29"
Discharge ESP	-	Note [3]
Total ESP	-	Note [3]

Completed By: Cody Collett on 01/24/2025

Notes:

- [1] Filter clogged; removed for testing.
- [2] Unable to change speed due to inadequate access due to install location.
- [3] Unable to measure discharge pressure due to lack of accurate measurement in the only accessible portion of the supply duct which is a corner.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-209/205-1

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-9-1	209-2	SR-1	10	211	165	165	78.2
2-9-2	209-2	SR-1	10	211	163	163	77.3
2-9-3	209-2	SR-1	10	211	169	169	80.1
2-9-4	209-2	SR-1	10	211	168	168	79.6
2-9-5	209-2	SR-1	10	211	170	170	80.6
2-9-6	209-1	SR-1	10	210	168	168	80.0
2-9-7	209-1	SR-1	10	210	166	166	79.0
2-9-8	209-1	SR-1	10	210	172	172	81.9
2-9-9	209-1	SR-1	10	210	171	171	81.4
2-9-10	209-1	SR-1	10	210	169	169	80.5
2-9-11	209-1	SR-1	10	210	172	172	81.9
Total				2315	1853	1853	80.04%

Diffuser Ret/Exh (GRD)

WSHP-209/205-1

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-9-1	RR-3		2255					-
Total			2255		0	0	0	0%



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-C200 1

AREA:200 CORRIDOR

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH018EL00
Serial Num	-	240501401
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	[2]
Filter Size 1	-	[2]

Motor Data		
	Design	Actual
Motor MFG	-	NL
Frame	-	NL
Horsepower	-	1/2
Motor Rpm	-	NL
Phase	-	1
Voltage	-	208/230
Amperage	-	4.1
Brake Horsepower	-	0.158

Test Data		
	Design	Actual
SA CFM	400	439
Motor Speed Setpt	-	[1]
RL Voltage	-	211
RL Amperage	-	1.3
RA CFM	368	406
OA CFM	32	33

Performance Data		
	Design	Actual
Suction ESP	-	-0.25"
Discharge ESP	-	0.17"
Total ESP	-	0.42"

Completed By: Cody Collett on 01/24/2025

Notes:

- [1] Unable to change speed due to install location.
- [2] Missing filter.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-C200 1/200 CORRIDOR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-C200-1	200 CORRIDOR	SR-2	10X10	400	439	439	109.8
Total				400	439	439	109.75%

Diffuser Ret/Exh (GRD)

WSHP-C200 1/200 CORRIDOR

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-C200-1	RR-2		368		406	406	406	110.3
Total			368		406	406	406	110.33%

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-C201 1

AREA:201 CORRIDOR

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	UBH018EL004
Serial Num	-	240501402
Type	-	WATER FURNACE
Configuration	-	HORIZONTAL
Num Filters Size 1	-	1
Filter Size 1	-	16.5X17.5

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1/2
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208/230
Amperage	-	1.4
Brake Horsepower	-	0.182

Test Data		
	Design	Actual
SA CFM	460	422
Motor Speed Setpt	-	Speed tap 3
RL Voltage	-	210
RL Amperage	-	1.5
RA CFM	429	389
OA CFM	31	33

Performance Data		
	Design	Actual
Suction ESP	-	-0.17"
Discharge ESP	-	0.26"
Total ESP	-	0.43"

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-C201 1/201 CORRIDOR

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-C201-1	201 CORRIDOR	SR-2	10X10	460	422	422	91.7
Total				460	422	422	91.74%

Diffuser Ret/Exh (GRD)

WSHP-C201 1/201 CORRIDOR

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-C201-1	RR-2		429		389	389	389	90.7
Total			429		389	389	389	90.68%

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: Heat Pump

Asset: WSHP-C202 1

AREA:202 MAINT

Unit Data		
	Design	Actual
Unit MFG	NA	NA
Model Num	NA	NA
Serial Num	-	
Type	-	
Configuration	-	
Num Filters Size 1	-	
Filter Size 1	-	

Motor Data		
	Design	Actual
Motor MFG	-	GENTEQ
Frame	-	NL
Horsepower	-	1/2
Motor Rpm	-	1050
Phase	-	1
Voltage	-	208/230
Amperage	-	4.1
Brake Horsepower	-	

Test Data		
	Design	Actual
SA CFM	740	786
SFAN RPM	-	NA
Motor Speed Setpt	-	Speed tap 3
RL Voltage	-	
RL Amperage	-	
RA CFM	740	
OA CFM	0	

Performance Data		
	Design	Actual
Suction ESP	-	
Discharge ESP	-	
Total ESP	-	



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

Heat Pump

Diffuser Supply (GRD)

WSHP-C202 1/202 MAINT

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
2-C202-1	202 MAINT	SR-3		40			-
2-C202-2	202 CORRIDOR	SR-2		740			-
Total				780	0	0	0%

Diffuser Ret/Exh (GRD)

WSHP-C202 1/202 MAINT

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
R2-C202-1	RR-5		740					-
Total			740		0	0	0	0%



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-201

AREA:201

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	0

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
No power 1/24/2025

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-202

AREA:202

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	99

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
SINGLE SPEED FAN CANNOT ADJUST CFM.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-203

AREA:203

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	108

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
SINGLE SPEED FAN; CANNOT ADJUST CFM.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-204

AREA:204

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	110

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
SINGLE SPEED FAN; CANNOT ADJUST CFM.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-205

AREA:205

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	91

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
SINGLE SPEED FAN; CANNOT ADJUST CFM.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-206

AREA:

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	0

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
No power 1/24/2025

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-207

AREA:207

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	107

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
SINGLE SPEED FAN; CANNOT ADJUST CFM.

Written By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-208

AREA:208

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	72

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025



National TAB

Project: Mercantile Library Bldg (Cincinnati, OH)

System/Unit: FAN - Exhaust

Asset: E-209

AREA:209

Unit Data		
	Design	Actual
MFG	NA	COOK
Model Num	NA	GEMINI VF100 SONEBUSTER
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	113

Motor Data		
	Design	Actual
Phase	1	1
Voltage (rated)	-	115
Amperage (rated)	-	0.26

Completed By: Cody Collett on 01/24/2025

Notes:
SINGLE SPEED FAN; CANNOT ADJUST CFM.

Written By: Cody Collett on 01/24/2025