



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

System/Unit: AHU-DUAL FAN

Asset: HRHP-R06

AREA:

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	AAON
Model Number	NA	RNA-031
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	20.0 / 1760
Rated Volts / Phase	3 / 460
Rated Amperage / SF	27.0

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	12000	
OA CFM	3850	
Fan RPM	1422	
VFD Speed	-	
RL Voltage	460	
RL Amperage	27	
Motor B.H.P.	12.56	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	3.99	
Reheat Coil P.D.	-	
DX Coil P.D.	-	
Condenser Coil P.D.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Air Blender P.D.	-	
Total ESP	2.50	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	AAON
Model Number	-	RNA-031
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Pre-Filters / Size (4)	-	
No. Pre-Filters / Size (5)	-	
No. Pre-Filters / Size (6)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	10.0 / 1760
Rated Volts / Phase	460 / 3
Rated Amperage / SF	14.0 /

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	12000	
Fan RPM	1389	
VFD Speed	-	
RL Voltage	460	
RL Amperage	14.0	
Motor B.H.P.	7.54	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	1.76	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	1.00	



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

AHU-DUAL FAN

VAV - Single Duct

HRHP-R06/

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-101	PRICE	SDV	REHEAT	16	2360		710		1180		4503
VAV-102	PRICE	SDV	REHEAT	14	1740		530		870		
VAV-103	PRICE	SDV	REHEAT	14	1650		500		830		
VAV-104	PRICE	SDV	REHEAT	8	570	571	293	293	29	293	1135
VAV-105	PRICE	SDV	REHEAT	8	420	414	130	130	130	130	1060
VAV-115	PRICE	SDV	REHEAT	4	150	149	50	53	75	79	390
VAV-120	PRICE	SDV	REHEAT	8	420		420		420		
VAV-201	PRICE	SDV	REHEAT	16	2680		810		1340		
VAV-202	PRICE	SDV	REHEAT	12	1090		330		550		

Diffuser Ret/Exh (GRD)

HRHP-R06/

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	CO100 CORR 01	RG-05	48X10	2680					-
EGRD2	CO100 CORR 01	LR-01	10	200					-
EGRD3	CO100 CORR 01	LR-01	10	210					-
EGRD4	CO100 CORR 01	LR-01	10	200					-
EGRD5	CO100 CORR 01	LR-01	10	210					-
EGRD6	CO100 CORR 01	LR-01	10	200					-
EGRD7	CO100 CORR 01	LR-01	10	210					-
EGRD8	CO100 CORR 01	LR-01	10	200					-
EGRD9	CO100 CORR 01	LR-01	10	220					-
EGRD10	121 SECURITY	LR-03	12	570					-
EGRD11	121 SECURITY	LR-03	12	570					-
EGRD12	121 SECURITY	LR-03	12	570					-
EGRD13	121 SECURITY	LR-03	12	570					-
EGRD14	121 SECURITY	LR-03	12	570					-
EGRD15	121 SECURITY	LR-03	12	570					-
EGRD16	CO200 COOR 04	RD-05	15	1090					-
Total				8840		0	0	0	0%

Diffuser Supply (GRD)

VAV-101/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	121 SECURITY	LS-04	48X6	200	2672	2435	1217.5
SGRD2	121 SECURITY	LS-04	48X6	200			-
SGRD3	121 SECURITY	LS-04	48X6	200			-

VAV-101/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD4	121 SECURITY	LS-05	48X8	440			-
SGRD5	121 SECURITY	LS-05	48X8	440			-
SGRD6	121 SECURITY	LS-05	48X8	440			-
SGRD7	121 SECURITY	LS-05	48X8	440			-
Total				2360	2672	2435	103.18%

VAV-102/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	121 SECURITY	LS-05	48X8	400			-
SGRD2	121 SECURITY	LS-05	48X8	270			-
SGRD3	121 SECURITY	LS-05	48X8	400			-
SGRD4	121 SECURITY	LS-05	48X8	270			-
SGRD5	121 SECURITY	LS-05	48X8	400			-
Total				1740	0	0	0%

VAV-103/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CO100 CORR 01	LS-02	8	150			-
SGRD2	CO100 CORR 01	LS-02	8	150			-
SGRD3	CO100 CORR 01	LS-02	8	150			-
SGRD4	CO100 CORR 01	LS-02	8	150			-
SGRD5	CO100 CORR 01	LS-02	8	150			-
SGRD6	CO100 CORR 01	LS-02	8	150			-
SGRD7	CO100 CORR 01	LS-02	8	150			-
SGRD8	CO100 CORR 01	LS-02	8	150			-
SGRD9	CO100 CORR 01	LS-02	8	150			-
SGRD10	CO100 CORR 01	LS-02	8	150			-
SGRD11	CO100 CORR 01	LS-02	8	150			-
Total				1650	0	0	0%

VAV-104/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CO101 CORR 02	SD-03	8	190	187	187	98.4
SGRD2	CO101 CORR 02	SD-03	8	190	195	195	102.6
SGRD3	CO101 CORR 02	SD-03	8	190	189	189	99.5
Total				570	571	571	100.18%

VAV-105/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	122 SECURITY OFC	SD-03	8	140	193	136	97.1
SGRD2	122 SECURITY OFC	SD-03	8	140	136	98	70.0
SGRD3	122 SECURITY OFC	SD-03	8	140	261	180	128.6
Total				420	590	414	98.57%

VAV-115/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	131 WELLNESS	SD-03	8	150	188	149	99.3
Total				150	188	149	99.33%

VAV-120/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	136 WOMEN RR	LS-02	8	70			-
SGRD2	136 WOMEN RR	LS-02	8	70			-
SGRD3	132 TOILET	LS-01	6	100			-
SGRD4	137 MENS RR	LS-02	8	90			-
SGRD5	137 MENS RR	LS-02	8	90			-

VAV-120/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
Total				420	0	0	0%

VAV-201/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CO200 CORR 04	LS-06	216X8	2680			-
Total				2680	0	0	0%

VAV-202/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CO200 COOR 04	SD-03	8	150			-
SGRD2	ST-1-2 STAIR 1-2	SD-03	8	200			-
SGRD3	226 TOILET	LS-02	8	70			-
SGRD4	225 MENS RR	LS-02	8	80			-
SGRD5	225 MENS RR	LS-02	8	80			-
SGRD6	224 WOMEN RR	LS-02	8	80			-
SGRD7	224 WOMEN RR	LS-02	8	80			-
SGRD8	CO200 COOR 04	SD-03	8	150			-
SGRD9	CO200 COOR 04	SD-02	6	100			-
SGRD10	CO200 COOR 04	SD-02	6	100			-
Total				1090	0	0	0%

Asset	Notes	Date	Written By
VAV-105	Missing dampers 11/6/25	11/06/2025	Noah Stafford



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

System/Unit: AHU-DUAL FAN

Asset: HRHP-R07

AREA:

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	AAON
Model Number	NA	RNA-030
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	15.0 / 1760
Rated Volts / Phase	3 / 460
Rated Amperage / SF	21.0 /

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	9000	
OA CFM	3774	
Fan RPM	1872	
VFD Speed	-	
RL Voltage	460	
RL Amperage	21.0	
Motor B.H.P.	11.89	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	4.94	
Reheat Coil P.D.	-	
DX Coil P.D.	-	
Condenser Coil P.D.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Air Blender P.D.	-	
Total ESP	2.75	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	AAON
Model Number	-	RNA-030
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Pre-Filters / Size (4)	-	
No. Pre-Filters / Size (5)	-	
No. Pre-Filters / Size (6)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	10.00 / 1760
Rated Volts / Phase	460 / 3
Rated Amperage / SF	14.0

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	9000	
Fan RPM	1963	
VFD Speed	-	
RL Voltage	460	
RL Amperage	14.0	
Motor B.H.P.	9.19	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	2.12	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	1.00	



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

AHU-DUAL FAN

VAV - Single Duct

HRHP-R07/

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-106	PRICE	SDV	REHEAT	10	880	873	270	277	440	442	1720
VAV-107	PRICE	SDV	REHEAT	10	1000	999	300	303	500	510	1675
VAV-108	PRICE	SDV	REHEAT	10	1000	1032	300	307	500	510	1769
VAV-109	PRICE	SDV	REHEAT	10	880	869	270	270	440	440	1780
VAV-110	PRICE	SDV	REHEAT	10	880	893	270	277	440	451	1710
VAV-111	PRICE	SDV	REHEAT	10	880	882	270	273	440	433	1790
VAV-112	PRICE	SDV	REHEAT	10	880	867	270	270	440	440	1710
VAV-113	PRICE	SDV	REHEAT	10	880	881	270	273	440	441	1745
VAV-114	PRICE	SDV	REHEAT	10	880	892	270	270	440	440	1865
VAV-116	PRICE	SDV	REHEAT	8	470	471	150	153	150	153	1110
VAV-117	PRICE	SDV	REHEAT	8	540	527	170	170	170	170	1000
VAV-118	PRICE	SDV	REHEAT	6	350	334	110	107	110	107	580
VAV-119	PRICE	SDV	REHEAT	8	420	433	130	123	130	123	1070

Diffuser Supply (GRD)

VAV-106/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	127 TRAIN TECH/LAB	SD-03	8	180	210	191	106.1
SGRD2	127 TRAIN TECH/LAB	SD-03	8	170	229	170	100.0
SGRD3	127 TRAIN TECH/LAB	SD-03	8	180	230	175	97.2
SGRD4	127 TRAIN TECH/LAB	SD-03	8	180	174	163	90.6
SGRD5	127 TRAIN TECH/LAB	SD-03	8	170	187	174	102.4
Total				880	1030	873	99.2%

VAV-107/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	127 TRAIN TECH/LAB	SD-04	10	250	231	226	90.4
SGRD2	127 TRAIN TECH/LAB	SD-04	10	250	302	241	96.4
SGRD3	127 TRAIN TECH/LAB	SD-04	10	250	314	271	108.4
SGRD4	127 TRAIN TECH/LAB	SD-04	10	250	309	261	104.4
Total				1000	1156	999	99.9%

VAV-108/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	128 TRAIN TECH/LAB	SD-03	8	200	239	204	102.0
SGRD2	128 TRAIN TECH/LAB	SD-03	8	200	251	198	99.0

VAV-108/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD3	128 TRAIN TECH/LAB	SD-03	8	200	238	201	100.5
SGRD4	128 TRAIN TECH/LAB	SD-03	8	200	239	210	105.0
SGRD5	128 TRAIN TECH/LAB	SD-03	8	200	250	219	109.5
Total				1000	1217	1032	103.2%

VAV-109/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	128 TRAIN TECH/LAB	SD-04	10	220	271	223	101.4
SGRD2	128 TRAIN TECH/LAB	SD-04	10	220	293	226	102.7
SGRD3	128 TRAIN TECH/LAB	SD-04	10	220	257	215	97.7
SGRD4	128 TRAIN TECH/LAB	SD-04	10	220	246	201	91.4
Total				880	1067	865	98.3%

VAV-110/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	129 TRAIN CLASS	SD-04	10	220	226	210	95.5
SGRD2	129 TRAIN CLASS	SD-04	10	220	250	229	104.1
SGRD3	129 TRAIN CLASS	SD-04	10	220	289	225	102.3
SGRD4	129 TRAIN CLASS	SD-04	10	220	289	229	104.1
Total				880	1054	893	101.48%

VAV-111/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	129 TRAIN CLASS	SD-03	8	180	248	170	94.4
SGRD2	129 TRAIN CLASS	SD-03	8	170	238	184	108.2
SGRD3	129 TRAIN CLASS	SD-03	8	180	219	178	98.9
SGRD4	129 TRAIN CLASS	SD-03	8	180	190	177	98.3
SGRD5	129 TRAIN CLASS	SD-03	8	170	204	173	101.8
Total				880	1099	882	100.23%

VAV-112/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	130 TRAIN CLASS	SD-04	10	220	253	212	96.4
SGRD2	130 TRAIN CLASS	SD-04	10	220	273	221	100.5
SGRD3	130 TRAIN CLASS	SD-04	10	220	262	218	99.1
SGRD4	130 TRAIN CLASS	SD-04	10	220	259	216	98.2
Total				880	1047	867	98.52%

VAV-113/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	130 TRAIN CLASS	SD-03	8	120	178	131	109.2
SGRD2	130 TRAIN CLASS	SD-03	8	120	226	126	105.0
SGRD3	130 TRAIN CLASS	SD-03	8	120	27	128	106.7
SGRD4	130 TRAIN CLASS	SD-03	8	120	233	130	108.3
SGRD5	130 TRAIN CLASS	SD-03	8	200	190	184	92.0
SGRD6	130 TRAIN CLASS	SD-03	8	200	243	182	91.0
Total				880	1097	881	100.11%

VAV-114/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	130 TRAIN CLASS	SD-03	8	170	216	170	100.0
SGRD2	130 TRAIN CLASS	SD-03	8	180	223	185	102.8
SGRD3	130 TRAIN CLASS	SD-03	8	180	268	175	97.2

VAV-114/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD4	130 TRAIN CLASS	SD-03	8	180	221	180	100.0
SGRD5	130 TRAIN CLASS	SD-03	8	170	200	182	107.1
Total				880	1128	892	101.36%

VAV-116/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	142 STORAGE	SD-04	10	210	257	207	98.6
SGRD2	141 TRAIN OFC	SD-03	8	130	128	124	95.4
SGRD3	141 TRAIN OFC	SD-03	8	130	193	140	107.7
Total				470	578	471	100.21%

VAV-117/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	146 BREAK RM	SD-03	8	180	195	172	95.6
SGRD2	146 BREAK RM	SD-03	8	180	207	172	95.6
SGRD3	146 BREAK RM	SD-03	8	180	226	183	101.7
Total				540	628	527	97.59%

VAV-118/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CORRIDOR	SD-03	8	110	168	117	106.4
SGRD2	CORRIDOR	SD-03	8	120	140	109	90.8
SGRD3	CORRIDOR	SD-03	8	120	138	108	90.0
Total				350	446	334	95.43%

VAV-119/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CORRIDOR	SD-03	8	100	157	104	104.0
SGRD2	CORRIDOR	SD-03	8	100	114	105	105.0
SGRD3	CORRIDOR	SD-03	8	100	120	103	103.0
SGRD4	CORRIDOR	SD-03	8	120	119	121	100.8
Total				420	510	433	103.1%

Completed By: Gabe Merk on 11/05/2025



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

System/Unit: AHU-DUAL FAN

Asset: HRHP-R08

AREA:2ND FLR-AREA C

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	AAON
Model Number	NA	RNA-031
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	20.0 / 1760
Rated Volts / Phase	3 / 460
Rated Amperage / SF	27.0 /

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	13500	
OA CFM	3000	
Fan RPM	1837	
VFD Speed	-	
RL Voltage	460	
RL Amperage	27.0	
Motor B.H.P.	10.89	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	5.20	
Reheat Coil P.D.	-	
DX Coil P.D.	-	
Condenser Coil P.D.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Air Blender P.D.	-	
Total ESP	3.50	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	AAON
Model Number	-	RNA-031
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Pre-Filters / Size (4)	-	
No. Pre-Filters / Size (5)	-	
No. Pre-Filters / Size (6)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	10.0 / 1760
Rated Volts / Phase	460 / 3
Rated Amperage / SF	14.0

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	13500	
Fan RPM	1239	
VFD Speed	-	
RL Voltage	460	
RL Amperage	14.0	
Motor B.H.P.	3.20	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	3.50	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	1.49	



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

AHU-DUAL FAN

VAV - Single Duct

HRHP-R08/2ND FLR-AREA C

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-203	PRICE	SDV	REHEAT	6	260	266	80	81	80	81	600
VAV-204	PRICE	SDV	REHEAT	12	1320		400		400		
VAV-205	PRICE	SDV	REHEAT	12	1320		400		400		
VAV-206	PRICE	SDV	REHEAT	10	880	872	270	273	270	273	1487
VAV-207	PRICE	SDV	REHEAT	10	880	878	270	265	270	265	1685
VAV-208	PRICE	SDV	REHEAT	10	880		270		270		
VAV-209	PRICE	SDV	REHEAT	12	1320	1339	400	415	660	659	2615
VAV-210	PRICE	SDV	REHEAT	12	1320	1349	400	408	400	408	2553
VAV-211	PRICE	SDV	REHEAT	10	900	917	270	267	450	459	1775
VAV-212	PRICE	SDV	REHEAT	10	810	776	250	239	410	406	1431
VAV-213	PRICE	SDV	REHEAT	10	810	815	250	253	410	417	1305
VAV-214	PRICE	SDV	REHEAT	10	810	802	250	247	410	403	1487
VAV-215	PRICE	SDV	REHEAT	12	1170	1114	360	357	590	599	2534
VAV-216	PRICE	SDV	REHEAT	8	740	720	230	232	370	373	1175
VAV-217	PRICE	SDV	REHEAT	8	510	499	160	161	260	269	1005
VAV-218	PRICE	SDV	REHEAT	8	620	623	190	197	190	197	1025
VAV-220	PRICE	SDV	REHEAT	10	590	614	270	265	270	265	1644
VAV-233	PRICE	SDV	REHEAT	8	560	558	170	177	280	275	910
VAV-234	PRICE	SDV	REHEAT	8	510	528	160	158	260	265	955

Diffuser Supply (GRD)

VAV-203/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION SUITE	SD-04	10	260	334	266	102.3
Total				260	334	266	102.31%

VAV-204/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION STE	LS-05	48X8	440			-
SGRD2	201 AVIATION STE	LS-05	48X8	440			-
SGRD3	201 AVIATION STE	LS-05	48X8	440			-
Total				1320	0	0	0%

VAV-205/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION STE	LS-05	48X8	440			-
SGRD2	201 AVIATION STE	LS-05	48X8	440			-
SGRD3	201 AVIATION STE	LS-05	48X8	440			-
Total				1320	0	0	0%

VAV-206/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		SD-05	12	440	450	450	102.3
SGRD2		SD-05	12	440	422	422	95.9

VAV-206/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
Total				880	872	872	99.09%

VAV-207/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION STE	SD-04	10	220	303	239	108.6
SGRD2	201 AVIATION STE	SD-04	10	220	259	232	105.5
SGRD3	201 AVIATION STE	SD-04	10	220	149	191	86.8
SGRD4	201 AVIATION STE	SD-04	10	220	300	216	98.2
Total				880	1011	878	99.77%

VAV-208/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION STE	LS-05	48X8	440			-
SGRD2	201 AVIATION STE	LS-05	48X8	440			-
Total				880	0	0	0%

VAV-209/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION STE	SD-05	12	440	556	462	105.0
SGRD2	201 AVIATION STE	SD-05	12	440	567	456	103.6
SGRD3	201 AVIATION STE	SD-05	12	440	480	421	95.7
Total				1320	1603	1339	101.44%

VAV-210/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	201 AVIATION STE	SD-05	12	440	502	453	103.0
SGRD2	201 AVIATION STE	SD-05	12	440	496	445	101.1
SGRD3	201 AVIATION STE	SD-05	12	440	579	451	102.5
Total				1320	1577	1349	102.2%

VAV-211/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	202 CONF RM	SD-03	8	150	198	159	106.0
SGRD2	202 CONF RM	SD-03	8	150	185	156	104.0
SGRD3	202 CONF RM	SD-03	8	150	178	159	106.0
SGRD4	202 CONF RM	SD-03	8	150	184	150	100.0
SGRD5	202 CONF RM	SD-03	8	150	169	140	93.3
SGRD6	202 CONF RM	SD-03	8	150	174	153	102.0
Total				900	1088	917	101.89%

VAV-212/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	205 OFFICE	LS-03	10	270	291	281	104.1
SGRD2	204 OFFICE	LS-03	10	270	255	244	90.4
SGRD3	203 OFFICE	LS-03	10	270	242	251	93.0
Total				810	788	776	95.8%

VAV-213/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	206 OFFICE	LS-03	10	270	131	245	90.7
SGRD2	207 OFFICE	LS-03	10	270	273	293	108.5
SGRD3	208 OFFICE	LS-03	10	270	223	277	102.6
Total				810	627	815	100.62%

VAV-214/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	209 OFFICE	LS-03	10	270	239	263	97.4
SGRD2	210 OFFICE	LS-03	10	270	285	274	101.5
SGRD3	211 OFFICE	LS-03	10	270	289	265	98.1
Total				810	813	802	99.01%

VAV-215/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	212 CONF RM	SD-03	8	195	236	178	91.3
SGRD2	212 CONF RM	SD-03	8	195	268	185	94.9
SGRD3	212 CONF RM	SD-03	8	195	243	212	108.7
SGRD4	212 CONF RM	SD-03	8	195	236	180	92.3
SGRD5	212 CONF RM	SD-03	8	195	206	177	90.8
SGRD6	212 CONF RM	SD-03	8	195	223	182	93.3
Total				1170	1412	1114	95.21%

VAV-216/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	214 CONF RM	SD-03	8	140	149	134	95.7
SGRD2	214 CONF RM	SD-03	8	150	240	138	92.0
SGRD3	214 CONF RM	SD-03	8	150	221	163	108.7
SGRD4	214 CONF RM	SD-03	8	150	198	141	94.0
SGRD5	214 CONF RM	SD-03	8	150	188	144	96.0
Total				740	996	720	97.3%

VAV-217/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1		SD-03	8	170	182	156	91.8
SGRD2		SD-03	8	170	212	172	101.2
SGRD3		SD-03	8	170	210	171	100.6
Total				510	604	499	97.84%

VAV-218/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	222 OFFICE	SD-04	10	160	209	147	91.9
SGRD2	221 OFFICE	SD-04	10	150	59	149	99.3
SGRD3	220 OFFICE	SD-04	10	150	225	162	108.0
SGRD4	219 OFFICE	SD-04	10	160	231	165	103.1
Total				620	724	623	100.48%

VAV-220/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	SD-03	10	145	156	149	102.8
SGRD2	227 MRO SUITE	SD-03	10	145	163	157	108.3
SGRD3	227 MRO SUITE	SD-03	10	150	161	152	101.3
SGRD4	227 MRO SUITE	SD-03	10	150	167	156	104.0
Total				590	647	614	104.07%

VAV-233/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	233 OFFICE	LS-03	10	310	293	294	94.8
SGRD2	234 OFFICE	LS-03	10	250	313	264	105.6
Total				560	606	558	99.64%

VAV-234/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	235 OFFICE	LS-03	10	260	315	284	109.2
SGRD2	236 OFFICE	LS-03	10	250	254	244	97.6

VAV-234/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
Total				510	569	528	103.53%

Completed By: Gabe Merk on 11/04/2025



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

System/Unit: AHU-DUAL FAN

Asset: HRHP-R09

AREA:

UNIT DATA - SUPPLY		
	Design	Actual
Manufacturer	NA	AAON
Model Number	NA	RNA-031
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Final Filters / Size (1)	-	
No. Final Filters / Size (2)	-	
No. Final Filters / Size (3)	-	

MOTOR DATA - SUPPLY	
	Actual
Motor MFG / Frame	
Horsepower / RPM	20.0 / 1760
Rated Volts / Phase	3 / 460
Rated Amperage / SF	27.0

TEST DATA - SUPPLY		
	Design	Actual
Total CFM	13500	
OA CFM	3000	
Fan RPM	1837	
VFD Speed	-	
RL Voltage	460	
RL Amperage	27.0	
Motor B.H.P.	10.89	

PERFORMANCE DATA - SUPPLY		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	5.20	
Reheat Coil P.D.	-	
DX Coil P.D.	-	
Condenser Coil P.D.	-	
Chilled Water Coil P.D.	-	
Pre Heat Coil P.D.	-	
Final Filters P.D.	-	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Air Blender P.D.	-	
Total ESP	3.50	

UNIT DATA - EXHAUST/RETURN		
	Design	Actual
Manufacturer	-	AAON
Model Number	-	RNA-031
Serial Number	-	
No. Pre-Filters / Size (1)	-	
No. Pre-Filters / Size (2)	-	
No. Pre-Filters / Size (3)	-	
No. Pre-Filters / Size (4)	-	
No. Pre-Filters / Size (5)	-	
No. Pre-Filters / Size (6)	-	

MOTOR DATA - EXHAUST/RETURN	
	Actual
Motor MFG / FRAME	
Horsepower / RPM	10.0 / 1760
Rated Volts / Phase	460 / 3
Rated Amperage / SF	14.0 /

TEST DATA - EXHAUST/RETURN		
	Design	Actual
Total CFM	13500	
Fan RPM	1239	
VFD Speed	-	
RL Voltage	460	
RL Amperage	14.0	
Motor B.H.P.	3.20	

PERFORMANCE DATA - EXHAUST/RETURN		
	Design	Actual
Static Pressure Stpt	-	
Suction S.P.	-	
Discharge S.P.	-	
Total S.P.	1.49	
Heat Wheel P.D.	-	
Pre-Filters P.D.	-	
Total ESP	0.75	



National TAB

Project: DHL CVG Hangar (Erlanger, KY)

AHU-DUAL FAN

VAV - Single Duct

HRHP-R09/

Asset											
Asset Name	MFG	Model Num	Type	Inlet Size	Design Max CFM	Max CFM	Design Min CFM	Min CFM	Design Heat CFM	Heat CFM	Ak (max)
VAV-219	NA	NA	REHEAT	4	140	146	50	53	75	77	390
VAV-221	NA	NA	REHEAT	12	1430	1427	400	409	660	409	2525
VAV-222	NA	NA	REHEAT	10	760	785	230	230	230	230	1540
VAV-223	NA	NA	REHEAT	8	510	515	160	162	260	271	1143
VAV-224	NA	NA	REHEAT	12	1220	1246	400	399	400	399	2400
VAV-225	NA	NA	REHEAT	10	880		270		270		
VAV-226	NA	NA	REHEAT	12	900	905	400	403	400	403	2650
VAV-227	NA	NA	REHEAT	12	1320	1327	400	410	400	410	2440
VAV-228	NA	NA	REHEAT	10	880		270		270		
VAV-229	NA	NA	REHEAT	10	1000	962	300	295	300	295	1730
VAV-230	NA	NA	REHEAT	10	880	921	270	273	270	273	1535
VAV-231	NA	NA	REHEAT	8	720	712	220	221	220	221	1076
VAV-232	NA	NA	REHEAT	8	600	600	180	181	180	181	1102
VAV-235	NA	NA	REHEAT	6	360	367	110	115	180	181	541
VAV-236	NA	NA	REHEAT	4	150	151	50	50	75	77	396
VAV-237	NA	NA	REHEAT	8	540	532	170	167	170	167	1092
VAV-238	NA	NA	REHEAT	8	680	686	210	214	210	214	1010
VAV-239	NA	NA	REHEAT	4	150	153	50	51	75	73	389
VAV-240	NA	NA	REHEAT	6	260	269	80	83	80	83	520
VAV-241	NA	NA	REHEAT	8	540	520	170	165	170	165	1052
VAV-242	NA	NA	REHEAT	6	280	288	90	91	90	91	534

Diffuser Supply (GRD)

VAV-219/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	223 PRAYER	SD-03	8	140	173	146	104.3
Total				140	173	146	104.29%

VAV-221/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-05	48X8	440	441	421	95.7
SGRD2	227 MRO SUITE	LS-05	48X8	330	489	361	109.4
SGRD3	227 MRO SUITE	LS-05	48X8	330	372	316	95.8
SGRD4	227 MRO SUITE	LS-05	48X8	330	374	329	99.7
Total				1430	1676	1427	99.79%

VAV-222/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-03	10	260	260	253	97.3
SGRD2	227 MRO SUITE	LS-03	10	250	262	258	103.2
SGRD3	227 MRO SUITE	LS-03	10	250	280	274	109.6
Total				760	802	785	103.29%

VAV-223/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	229 PROD PLAN	SD-04	10	255	338	264	103.5
SGRD2	229 PROD PLAN	SD-04	10	255	328	251	98.4
Total				510	666	515	100.98%

VAV-224/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-05	48X8	440	399	419	95.2
SGRD2	227 MRO SUITE	LS-05	48X8	440	603	475	108.0
SGRD3	227 MRO SUITE	LS-05	48X8	340	386	352	103.5
Total				1220	1388	1246	102.13%

VAV-225/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-05	48X8	440			-
SGRD2	227 MRO SUITE	LS-05	48X8	440			-
Total				880	0	0	0%

VAV-226/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-05	48X8	450	586	474	105.3
SGRD2	227 MRO SUITE	LS-05	48X8	450	533	431	95.8
Total				900	1119	905	100.56%

VAV-227/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-05	48X8	440	473	402	91.4
SGRD2	227 MRO SUITE	LS-05	48X8	440	551	468	106.4
SGRD3	227 MRO SUITE	LS-05	48X8	440	538	457	103.9
Total				1320	1562	1327	100.53%

VAV-228/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	LS-05	48X8	440			-
SGRD2	227 MRO SUITE	LS-05	48X8	440			-
Total				880	0	0	0%

VAV-229/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	SD-05	12	500	534	410	82.0
SGRD2	227 MRO SUITE	SD-05	12	500	681	552	110.4
Total				1000	1215	962	96.2%

VAV-230/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	227 MRO SUITE	SD-04	10	290	284	282	97.2
SGRD2	227 MRO SUITE	SD-04	10	290	318	318	109.7
SGRD3	227 MRO SUITE	SD-04	10	300	329	321	107.0
Total				880	931	921	104.66%

VAV-231/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	237 CONF	SD-04	10	240	261	236	98.3
SGRD2	237 CONF	SD-04	10	240	264	236	98.3
SGRD3	237 CONF	SD-04	10	240	266	240	100.0
Total				720	791	712	98.89%

VAV-232/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	230 CONFERENCE	SD-03	10	300	386	298	99.3
SGRD2	230 CONFERENCE	SD-04	10	300	392	302	100.7
Total				600	778	600	100%

VAV-235/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	HALL	SD-03	8	180	195	172	95.6
SGRD2	HALL	SD-03	8	180	225	195	108.3
Total				360	420	367	101.94%

VAV-236/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CO202 CORR 5	SG-02	10X6	150	175	151	100.7
Total				150	175	151	100.67%

VAV-237/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	240 REC STOR	SD-03	8	200	250	201	100.5
SGRD2	239 OFFICE	SD-03	8	170	195	158	92.9
SGRD3	238 OFFICE	SD-03	8	170	245	173	101.8
Total				540	690	532	98.52%

VAV-238/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	244 OFFICE	SD-04	10	170	158	167	98.2
SGRD2	243 OFFICE	SD-04	10	170	198	178	104.7
SGRD3	242 OFFICE	SD-04	10	170	206	167	98.2
SGRD4	241 OFFICE	SD-04	10	170	219	174	102.4
Total				680	781	686	100.88%

VAV-239/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	CO202 CORR 5	SG-02	10X6	150	172	153	102.0
Total				150	172	153	102%

VAV-240/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	245 AUDITORS	SD-03	8	130	146	141	108.5
SGRD2	245 AUDITORS	SD-03	8	130	131	128	98.5
Total				260	277	269	103.46%

VAV-241/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	248 OFFICE	SD-03	8	180	210	166	92.2
SGRD2	247 OFFICE	SD-03	8	180	234	182	101.1
SGRD3	246 OFFICE	SD-03	8	180	196	172	95.6
Total				540	640	520	96.3%

VAV-242/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SGRD1	249 COPY RM	SD-04	10	280	332	288	102.9
Total				280	332	288	102.86%

Completed By: Gabe Merk on 11/03/2025