

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

Table Of Contents

Section	Page #
AHU/RTU	2
FAN - Exhaust	9
FAN - Supply	28

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: AHU/RTU



Asset: RTU-1

AREA:ROOF

Unit Data		
	Design	Actual
MFG	NA	TRANE
Serial Num	-	C24G03967
Model Num	NA	YCH480CEL*6D3N64A0
Configuration	HORIZONTAL	HORITONTAL
OA Filter Size 1	-	42"X 22"
Num OA Filters 2	-	3
Num PreFilter 1	-	17
PreFilter Size 1	-	16"X20"X4"

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	254T
Horsepower	15	15
Motor Rpm	-	1765
Phase	3	3
Rated Voltage	208	200
Rated Amperage	43.00	41
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	6"
Motor Bore Size	1.5"
Motor Sheave SetPt	
Fan Sheave Size	14"
Fan Sheave Bore	1.5"
Belt CL Distance	35"
Num of Belts	2
Belt Size	B X 97

Test Data		
	Design	Actual
SF CFM	13485	
SF RPM	-	
RA CFM	11191	
OA CFM	2294	2475
RL Voltage	208	
RL Amperage	43.00	
SF Motor Freq(HZ)	-	
SF System SetPt	-	
Min OA Damper Position	-	
Brake Horse Power	7.6	

Performance Data		
	Design	Actual
MA Plenum SP	-	
Fan Suction SP	-	
Fan Discharge SP	-	
Total ESP	1.5	
Fan Total SP	3.242	
Pre-Filter P.D.	-	
Cooling Coil P.D.	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

AHU/RTU



VAV - Single Duct

RTU-1/ROOF

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)
V1-01	TRANE	VCEF08	REHEAT	8	810	800	395	395	429	429	1.77
V1-02	TRANE	VCEF10	REHEAT	10	930	921	470	473	375	370	1.08
V1-03	TRANE	VCEF05	REHEAT	5	270	271	135	135	83	83	1.28
V1-04	TRANE	VCEF04	REHEAT	4	140	148	84	89	83	75	0.65
V1-05	TRANE	VCEF10	REHEAT	10	1000	979	500	493	301	315	1.08
V1-06	TRANE	VCEF05	REHEAT	5	300	298	150	149	83	87	1.5
V1-07	TRANE	VCEF10	REHEAT	10	1050	1071	525	539	210	216	1.06
V1-08	TRANE	VCEF08	REHEAT	8	560	544	280	276	219	212	1.17
V1-09	TRANE	VCEF08	REHEAT	8	510	513	255	252	423	427	0.96
V1-10	TRANE	VCEF05	REHEAT	5	85	83	50	54	84	84	1
V1-11	TRANE	VCEF04	REHEAT	4	330	337	60	56	86	87	0.21
V1-12	TRANE	VCEF04	REHEAT	4	120	123	43	46	83	82	0.33
V1-13	TRANE	VCEF06	REHEAT	6	250	247	175	168	256	248	0.69
V1-14	TRANE	VCEF05	REHEAT	5	320	300	160	160	224	224	1.37
V1-15	TRANE	VCEF04	REHEAT	4	160	157	80	83	83	87	1.03
V1-17	TRANE	VCEF06	REHEAT	6	250	253	145	145	290	290	1.16
V1-18	TRANE	VCEF05	REHEAT	7	310	299	155	162	202	211	0.75
V1-19	TRANE	VCEF05	REHEAT	5	140	153	70	77	166	173	1
V1-20	TRANE	VCEF08	REHEAT	8	650	662	325	327	157	160	1.14
V1-21	TRANE	VCEF08	REHEAT	8	460	445	255	250	266	257	1.37
V1-22	TRANE	VCEF10	REHEAT	8	560	550	280	277	121	122	1.12
V1-23	TRANE	VCEF10	REHEAT	10	1070	1089	533	535	536	540	1.10
V1-24	TRANE	VCEF08	REHEAT	8	700	693	350	344	398	399	1.16
V1-25	TRANE	VCEF10	REHEAT	10	1075	1067	538	536	554	552	1.00
V1-26	TRANE	VCEF08	REHEAT	8	490	477	258	263	250	251	1.12
V1-27	TRANE	VCEF10	REHEAT	10	865	855	433	428	229	224	1.08
V1-28	TRANE	VCEF05	REHEAT	5	160	157	80	81	124	127	1.10
V1-29	TRANE	VCEF10	REHEAT	10	1240	1243	615	621	707	717	1.07
V1-30	TRANE	VCEF05	REHEAT	5	280	276	140	137	217	215	1.14

Diffuser Ret/Exh (GRD)

RTU-1/ROOF

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
RTU-1-EGRD1	ER	6X6	80		30			-
RTU-1-EGRD2	RR	8	190					-
RTU-1-EGRD3	RR	8X6	160		235			-
RTU-1-EGRD4	RR	12	560		451			-
RTU-1-EGRD5	RR	12X10	490		30			-
RTU-1-EGRD6	RR	14X12	700		20			-
RTU-1-EGRD7	RR	10X8	230		15			-
RTU-1-EGRD8	RR	12X10	355		25			-
RTU-1-EGRD9	RR	8X6	160		40			-
RTU-1-EGRD10	RR	28X16	615		447			-
RTU-1-EGRD11	RR	28X16	615		411			-
RTU-1-EGRD12	RR	10X10	350		330			-
RTU-1-EGRD13	RR	10X8	280		207			-
RTU-1-EGRD14	RR	12X8	355		257			-
RTU-1-EGRD15	RR	8	160		23			-
RTU-1-EGRD16	RR	12X10	400		330			-
RTU-1-EGRD17	RR	14X8	550					-
RTU-1-EGRD18	RR	12X10	70					-
RTU-1-EGRD19	RR	10X10	80					-
RTU-1-EGRD20	RR	10X8	70					-
RTU-1-EGRD21	RR	8X6	120					-
RTU-1-EGRD22	RR	10X10	350		320			-
RTU-1-EGRD23	RR	6X6	75					-
RTU-1-EGRD24	RR	6X4	65					-
RTU-1-EGRD25	RR	10X8	260		410			-
RTU-1-EGRD26	RR	6X6	75					-
RTU-1-EGRD27	RR	6X6	80					-
RTU-1-EGRD28	RR	6X6	80					-
RTU-1-EGRD29	RR	6	40					-
RTU-1-EGRD30	RR	8	270					-
RTU-1-EGRD31	RR	8X6	100					-
RTU-1-EGRD32	RR	6	90		170			-
RTU-1-EGRD33	RR	22X14	1050		445			-
RTU-1-EGRD34	RR	18X8	560		289			-
RTU-1-EGRD35	RR	8X6	100					-
RTU-1-EGRD36	RR	8X6	140					-
RTU-1-EGRD37	RR	8X8	200					-
RTU-1-EGRD38	RR	16X12	930					-
Total			11055		4485	0	0	0%

Diffuser Supply (GRD)

V1-01/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-01-SGRD1	101	SR	6X6	100	103	103	103.0
V1-01-SGRD2	103	LD	6	100	95	95	95.0
V1-01-SGRD3	101	SR	10	255	248	248	97.3
V1-01-SGRD4	101	SR	10	255	262	262	102.7
V1-01-SGRD5	101	SR	8	100	92	92	92.0
Total				810	800	800	98.77%

V1-02/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-02-SGRD1	105	CD	8	155	146	146	94.2
V1-02-SGRD2	105	CD	14X12	155	153	149	96.1
V1-02-SGRD3	105	CD	8	155	161	154	99.4
V1-02-SGRD4	105	CD	8	155	185	158	101.9
V1-02-SGRD5	105	CD	12	155	200	150	96.8
V1-02-SGRD6	105	CD	8	155	166	164	105.8
Total				930	1011	921	99.03%

V1-03/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-03-SGRD1	119	CD	8	135	170	139	103.0
V1-03-SGRD2	119	CD	8	135	174	133	98.5
Total				270	344	272	100.74%

V1-04/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-04-SGRD1	121	SR	6	60	235	62	103.3
V1-04-SGRD2	121	CD	6	80	91	86	107.5
Total				140	326	148	105.71%

V1-05/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-05-SGRD1	STORM SHELTER	CD	10	280	280	264	94.3
V1-05-SGRD2	STORM SHELTER	CD	10	280	279	284	101.4
V1-05-SGRD3	STORM SHELTER	CD	10	280	315	263	93.9
V1-05-SGRD4	STORM SHELTER	CD	8	160	214	168	105.0
Total				1000	1072	979	97.9%

V1-06/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-06-SGRD1	109	SR	10X10	300	114	298	99.3
Total				300	114	298	99.33%

V1-07/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-07-SGRD1	111	SR	16	265	290	280	105.7
V1-07-SGRD2	111	SR	16	260	273	263	101.2
V1-07-SGRD3	111	SR	12	265	254	247	93.2
V1-07-SGRD4	111	SR	12	260	291	281	108.1
Total				1050	1108	1071	102%

V1-08/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-08-SGRD1	117	SR	8	200	230	205	102.5
V1-08-SGRD2	117	CD	8	180	250	177	98.3
V1-08-SGRD3	117	CD	8	180	191	162	90.0
Total				560	671	544	97.14%

V1-09/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-09-SGRD1	118	CD	8	110	93	107	97.3
V1-09-SGRD2	123	SR	12	100	115	104	104.0
V1-09-SGRD3	123	SR	12	100	121	100	100.0
V1-09-SGRD4	123	SR	8	100	119	103	103.0
V1-09-SGRD5	123	SR	8	100	108	99	99.0
Total				510	556	513	100.59%

V1-10/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-10-SGRD1	127	CD	6	85	130	83	97.6
Total				85	130	83	97.65%

V1-11/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-11-SGRD1	126	CD	10	165	133	164	99.4
V1-11-SGRD2	126	CD	8	165	142	173	104.8
Total				330	275	337	102.12%

V1-12/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-12-SGRD1	131	CD	8	120	83	123	102.5
Total				120	83	123	102.5%

V1-13/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-13-SGRD1	128	CD	6	85	66	81	95.3
V1-13-SGRD2	128	CD	6	80	73	74	92.5
V1-13-SGRD3	128	CD	6	85	110	92	108.2
Total				250	249	247	98.8%

V1-14/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-14-SGRD1	122	CD	8	130	76	118	90.8
V1-14-SGRD2	137	CD	6	20	55	22	110.0
V1-14-SGRD3	137	SR	6	40	71	38	95.0
V1-14-SGRD4	136	CD	8	130	113	122	93.8
Total				320	315	300	93.75%

V1-15/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-15-SGRD1	137	SR	6	80			-
V1-15-SGRD2	139	SR	6	80			-
Total				160	0	0	0%

V1-17/ROOF

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-17-SGRD1	141	SR	4	20	44	22	110.0
V1-17-SGRD2	143	SR	6	90	101	92	102.2
V1-17-SGRD3	143	SR	6	100	87	98	98.0
V1-17-SGRD4	146	SR	6	40	107	41	102.5
Total				250	339	253	101.2%

V1-18/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-18-SGRD1	150	SR	8	200	190	190	95.0
V1-18-SGRD2	145	SR	4	15	16	16	106.7
V1-18-SGRD3	142	SR	6	95	93	93	97.9
Total				310	299	299	96.45%

V1-19/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-19-SGRD1	135	CD	6	75	81	81	108.0
V1-19-SGRD2	132	CD	6	65	72	72	110.8
Total				140	153	153	109.29%

V1-20/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-20-SGRD1	121	SR	14	185	196	182	98.4
V1-20-SGRD2	121	SR	12	185	210	190	102.7
V1-20-SGRD3	121	SR	10	180	205	187	103.9
V1-20-SGRD4	134	SR	6	100	133	103	103.0
Total				650	744	662	101.85%

V1-21/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-21-SGRD1	215	CD-7	8	120	130	118	98.3
V1-21-SGRD2	218	SR-3	4X4	20	92	21	105.0
V1-21-SGRD3	216	CD-6	6	30	82	30	100.0
V1-21-SGRD4	217	SR-3	4X4	20	110	20	100.0
V1-21-SGRD5	214	SR-1	12X6	80	99	83	103.8
V1-21-SGRD6	220	SR-6	8	190	205	173	91.1
Total				460	718	445	96.74%

V1-22/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-22-SGRD1	213	CD	10	280	306	264	94.3
V1-22-SGRD2	213	CD	10	280	329	286	102.1
Total				560	635	550	98.21%

V1-23/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-23-SGRD1	212	CD	12	535	586	534	99.8
V1-23-SGRD2	212	CD	12	535	595	555	103.7
Total				1070	1181	1089	101.78%

V1-24/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-24-SGRD1	211	CD	14	700	820	693	99.0
Total				700	820	693	99%

V1-25/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-25-SGRD1	208	CD	10	355	330	343	96.6
V1-25-SGRD2	209	CD	10	230	349	229	99.6
V1-25-SGRD3	210	CD	10	490	413	495	101.0
Total				1075	1092	1067	99.26%

V1-26/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-26-SGRD1	201	CD	10	245	308	255	104.1
V1-26-SGRD2	201	CD	10	245	251	222	90.6
Total				490	559	477	97.35%

V1-27/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-27-SGRD1	207	CD	8	160	257	158	98.8
V1-27-SGRD2	206	CD	10	355	373	372	104.8
V1-27-SGRD3	205	CD	10	350	323	325	92.9
Total				865	953	855	98.84%

V1-28/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-28-SGRD1	203	CD	8	160	175	157	98.1
Total				160	175	157	98.12%

V1-29/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-29-SGRD1	202	CD	8	205	212	199	97.1
V1-29-SGRD2	202	CD	8	205	240	218	106.3
V1-29-SGRD3	202	CD	8	205	193	186	90.7
V1-29-SGRD4	202	CD	8	205	211	195	95.1
V1-29-SGRD5	202	CD	12	210	231	216	102.9
V1-29-SGRD6	202	CD	8	210	251	229	109.0
Total				1240	1338	1243	100.24%

V1-30/

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
V1-30-SGRD1	204	CD	10	280	320	276	98.6
Total				280	320	276	98.57%

Completed By: Gabe Merk on 04/28/2025

Asset	Notes	Date	Written By
V1-04	Boxes 4 and 6 were swapped upon install. Per controls tech, we switched set points and then balanced to design.	04/24/2025	Jordan Best
V1-06	Boxes 4 and 6 were swapped upon install. Per controls tech, we switched set points and then balanced to design.	04/24/2025	Jordan Best
V1-15	not driving up to max	04/23/2025	Chase Wright

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-1

AREA:151

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-098-VG
Serial Num	-	25372370
Type	CRE DNBLAST	CRE DNBLAST

Test Data		
	Design	Actual
CFM	300	295
RL Voltage	208	212
RL Amperage	1.7	0.2
Discharge ESP	-	ATM
Total ESP	0.3	0.16"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NA
Horsepower	0.25	0.25
Motor Rpm	1725	1750
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.8
Service Factor	-	NA

Completed By: Gabe Merk on 05/05/2025

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-2

AREA:149

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-100-VG
Serial Num	-	25372372
Type	CRE DNBLAST	CRE DNBLAST

Test Data		
	Design	Actual
CFM	650	673
RL Voltage	208	213
RL Amperage	1.7	0.3
Discharge ESP	-	ATM
Total ESP	0.3	0.18"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NA
Horsepower	0.25	0.25
Motor Rpm	1725	1750
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.8
Service Factor	-	NA

Completed By: Gabe Merk on 05/05/2025

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-3

AREA:148

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	G-098-VG
Serial Num	-	25372371
Type	CRE DNBLAST	CRE DNBLAST

Test Data		
	Design	Actual
CFM	300	312
RL Voltage	208	212
RL Amperage	-	0.2
Discharge ESP	-	ATM
Total ESP	0.3	0.12"

Motor Data		
	Design	Actual
Motor MFG	-	VARI-GREEN
Frame	-	NA
Horsepower	0.25	0.25
Motor Rpm	1725	1750
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.8
Service Factor	-	NA

Completed By: Gabe Merk on 05/05/2025

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-4

AREA:116

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	BCF-108-TH-10
Serial Num	-	25405929
Type	CABINET	INLINE

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	1	
Motor Rpm	1725	
Phase	3	
Voltage (rated)	208	
Amperage (rated)	-	4.6
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	1140	
Fan RPM	1287	
RL Voltage	208	
RL Amperage	4.6	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1.0	
Brake Horse Power	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	116	DUCT	4	10					-
EGRD2	116	DUCT	4	10					-
EGRD3	116	DUCT	4	10					-
EGRD4	116	DUCT	4	10					-
EGRD5	116	DUCT	4	10					-
EGRD6	116	DUCT	4	10					-
EGRD7	116	DUCT	4	10					-
EGRD8	116	DUCT	4	10					-
EGRD9	116	DUCT	4	10					-
EGRD10	116	DUCT	4	10					-
EGRD11	116	DUCT	4	10					-
EGRD12	116	DUCT	4	10					-
EGRD13	116	DUCT	4	10					-
EGRD14	116	DUCT	4	10					-
EGRD15	116	DUCT	4	10					-
EGRD16	116	DUCT	4	10					-
EGRD17	116	DUCT	4	10					-
EGRD18	116	DUCT	4	10					-
EGRD19	116	DUCT	4	10					-
EGRD20	116	DUCT	4	10					-
EGRD21	116	DUCT	4	10					-
EGRD22	116	DUCT	4	10					-
EGRD23	116	DUCT	4	10					-
EGRD24	116	DUCT	4	10					-
EGRD25	116	DUCT	4	10					-
EGRD26	116	DUCT	4	10					-
EGRD27	116	DUCT	4	10					-
EGRD28	116	DUCT	4	10					-
EGRD29	116	DUCT	4	10					-
EGRD30	116	DUCT	4	10					-
EGRD31	116	DUCT	4	10					-
EGRD32	116	DUCT	4	10					-
EGRD33	116	DUCT	4	10					-
EGRD34	116	DUCT	4	10					-
EGRD35	116	DUCT	4	10					-
EGRD36	116	DUCT	4	10					-
EGRD37	116	DUCT	4	10					-
EGRD38	116	DUCT	4	10					-
EGRD39	116	DUCT	4	10					-
EGRD40	116	DUCT	4	10					-
EGRD41	116	DUCT	4	10					-
EGRD42	116	DUCT	4	10					-
EGRD43	116	DUCT	4	10					-
EGRD44	116	DUCT	4	10					-
EGRD45	116	DUCT	4	10					-
EGRD46	116	DUCT	4	10					-
EGRD47	116	DUCT	4	10					-
EGRD48	116	DUCT	4	10					-
EGRD49	116	DUCT	4	10					-
EGRD50	116	DUCT	4	10					-
EGRD51	116	DUCT	4	10					-
EGRD52	116	DUCT	4	10					-
EGRD53	116	DUCT	4	10					-
EGRD54	116	DUCT	4	10					-
EGRD55	116	DUCT	4	10					-
EGRD56	116	DUCT	4	10					-
EGRD57	116	DUCT	4	10					-
EGRD58	116	DUCT	4	10					-
EGRD59	116	DUCT	4	10					-
EGRD60	116	DUCT	4	10					-
EGRD61	116	DUCT	4	10					-
EGRD62	116	DUCT	4	10					-
EGRD63	116	DUCT	4	10					-
EGRD64	116	DUCT	4	10					-
EGRD65	116	DUCT	4	10					-
EGRD66	116	DUCT	4	10					-
EGRD67	SHOWERS	ER-1	6X6	80					-

EGRD68	SHOWERS	ER-1	8X8	160					-
EGRD69	SHOWERS	ER-1	8X8	160					-
EGRD70	SHOWERS	ER-1	6X6	80					-
Total				1140		0	0	0	0%

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-5

AREA:109,110

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-098-4
Serial Num	-	
Type	CRE DNBLAST	CRE DNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56Z
Horsepower	0.25	0.25
Motor Rpm	1725	1745
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	2.7
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	2.5"
Motor Bore Size	0.75"
Motor Sheave SetPt	4"
Fan Sheave Size	4"
Fan Sheave Bore	0.75"
Belt CL Distance	5.25"
Num of Belts	1
Belt Size	NA

Test Data		
	Design	Actual
CFM	440	
Fan RPM	1224	
RL Voltage	208	
RL Amperage	3.2	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
Brake Horse Power	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-5/109,110

Asset									
Asset Name	Location	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	109	DUCT	4	10					-
EGRD2	109	DUCT	4	10					-
EGRD3	109	DUCT	4	10					-
EGRD4	109	DUCT	4	10					-
EGRD5	110	ER-1	6X6	80					-
EGRD6	109	DUCT	4	10					-
EGRD7	110	ER-1	8X8	160					-
EGRD8	109	DUCT	4	10					-
EGRD9	109	DUCT	4	10					-
EGRD10	109	DUCT	4	10					-
EGRD11	109	DUCT	4	10					-
EGRD12	109	DUCT	4	10					-
EGRD13	109	DUCT	4	10					-
EGRD14	109	DUCT	4	10					-
EGRD15	109	DUCT	4	10					-
EGRD16	109	DUCT	4	10					-
EGRD17	109	DUCT	4	10					-
EGRD18	109	DUCT	4	10					-
EGRD19	109	DUCT	4	10					-
EGRD20	109	DUCT	4	10					-
EGRD21	109	DUCT	4	10					-
EGRD22	109	DUCT	4	10					-
EGRD23	109	DUCT	4	10					-
Total				450		0	0	0	0%

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-6

AREA:150,142,141,143,144

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-098-4
Serial Num	-	NA
Type	CRE DNBLAST	CRE DNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56Z
Horsepower	0.25	0.25
Motor Rpm	1725	1745
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	2.7
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	2"
Motor Bore Size	1.25"
Motor Sheave SetPt	3.5"
Fan Sheave Size	3.5"
Fan Sheave Bore	0.75"
Belt CL Distance	5.5"
Num of Belts	1
Belt Size	0824

Test Data		
	Design	Actual
CFM	555	
Fan RPM	1404	
RL Voltage	208	
RL Amperage	3.2	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.4	
Brake Horse Power	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-6/150,142,141,143,144

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EF-6-EGRD1	ER	10X8	200					-
EF-6-EGRD2	ER	8	95					-
EF-6-EGRD3	ER	4	20					-
EF-6-EGRD4	ER	8	90					-
EF-6-EGRD5	ER	8	150					-
Total			555		0	0	0	0%

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-7

AREA:140

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110
Serial Num	-	174676790-0008
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	115

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	802	950
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.5

Completed By: Gabe Merk on 05/05/2025

Notes:

Single speed ef. Unable to reduce flow to design.

Written By: Gabe Merk on 05/05/2025

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-8

AREA:104

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	SP-B110
Serial Num	-	174572494-0072
Type	CEILING	CEILING

Test Data		
	Design	Actual
CFM	80	110

Motor Data		
	Design	Actual
Motor MFG	-	GREENHECK
Motor Rpm	802	950
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	1.15

Completed By: Gabe Merk on 05/05/2025

Notes:

Single speed ef. Unable to reduce flow to design.

Written By: Gabe Merk on 05/05/2025

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-9

AREA:RR 217

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	CSP-A390
Serial Num	-	
Type	INLINE	

Test Data		
	Design	Actual
CFM	210	
RL Voltage	115	
RL Amperage	1.42	
Discharge ESP	-	
Total ESP	0.5	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	51W	
Motor Rpm	1025	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	
Service Factor	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-9/RR 217

Asset									
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design	Location
EF-9-EGRD1	ER-1	6X6	80					-	
EF-9-EGRD2	ER-1	6X6	80					-	
EF-9-EGRD3	ER-5		50					-	
Total			210		0	0	0	0%	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: EF-10

AREA:134

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	GB-097-3
Serial Num	-	25432884
Type	CRE DNBLAST	DOWNBLAST

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56Z
Horsepower	0.33	0.33
Motor Rpm	1725	1740
Phase	1	1
Voltage (rated)	208	208
Amperage (rated)	-	1.6
Service Factor	-	1.15

Drive Data	
	Actual
Motor Sheave Size	VP34S
Motor Bore Size	5/8"
Motor Sheave SetPt	1 OUT
Fan Sheave Size	4"
Fan Sheave Bore	3/4"
Belt CL Distance	5-1/2"
Num of Belts	1
Belt Size	4L230R

Test Data		
	Design	Actual
CFM	150	152
Fan RPM	1161	1170
RL Voltage	208	212
RL Amperage	4	0.8
Suction ESP	-	-0.18"
Discharge ESP	-	ATM
Total ESP	0.4	0.18"
Brake Horse Power	-	0.16

Completed By: Gabe Merk on 05/05/2025

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-10/134

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
EGRD1	ER-2	8X8	150		152	152	152	101.3
Total			150		152	152	152	101.33%

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Exhaust



Asset: SEF-1

AREA:116

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	BCF-107-TH-5
Serial Num	-	25405934
Type	CABINET	INLINE

Motor Data		
	Design	Actual
Motor MFG	-	BALDOR
Frame	-	56
Horsepower	0.5	0.5
Motor Rpm	1725	1725
Phase	1	1
Voltage (rated)	115	115
Amperage (rated)	-	7.4
Service Factor	-	1.25

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Motor Sheave SetPt	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	800	
Fan RPM	1513	
RL Voltage	115	
RL Amperage	9.8	
Suction ESP	-	
Discharge ESP	-	
Total ESP	1	
Brake Horse Power	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

SEF-1/116

Asset								
Asset Name	Type	Size	DESIGN CFM	AK	CFM(1)	CFM(2)	FINAL CFM	% to design
SEF-1-EGRD1	ER	16X12	800	1	950			-
Total			800		950	0	0	0%

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

System/Unit: FAN - Supply



Asset: SF-1

AREA:116

Unit Data		
	Design	Actual
MFG	NA	GREENHECK
Model Num	NA	BCF-108-5
Serial Num	-	

Motor Data		
	Design	Actual
Motor MFG	-	
Frame	-	
Horsepower	0.5	
Motor Rpm	1725	
Phase	1	
Voltage (rated)	115	
Amperage (rated)	-	9.8
Service Factor	-	

Drive Data	
	Actual
Motor Sheave Size	
Motor Bore Size	
Fan Sheave Size	
Fan Sheave Bore	
Belt CL Distance	
Num of Belts	
Belt Size	

Test Data		
	Design	Actual
CFM	800	
SF RPM	1072	
RL Voltage	115	
RL Amperage	9.8	
Suction ESP	-	
Discharge ESP	-	
Total ESP	0.75	
Brake Horse Power	-	

National TAB

Project: Green Township Police Dept (Cincinnati, OH)

FAN - Supply



Diffuser Supply (GRD)

SF-1/116

Asset							
Asset Name	Location	Type	Size	DESIGN CFM	CFM(1)	FINAL CFM	% to design
SF-1-SGRD1	STORM SHELTER	OR	9X8	800	1278		-
Total				800	1278	0	0%