

National TAB

Project: Greene County Library (Xenia, OH)

System/Unit: AHU/RTU



Asset: AHU-4

AREA:FLR 1 MAKERSPACE

| Unit Data | | |
|---------------------|---------------------|-----------------------|
| | Design | Actual |
| MFG | NA | DAIKIN |
| Serial Num | - | FBOU231002766 |
| Model Num | NA | CAH008GDAC |
| Type | - | AHU |
| Configuration | STACKED VERTICAL | STACKED |
| Num PreFilter 1 | - | 2/1 |
| PreFilter Size 1 | - | 20"X24"X2'/12"X24"X2" |
| Num Final Filter 1 | - | 2/1 |
| Final Filter Size 1 | - | 20"X24"X4"/12"X24"X4" |

| Test Data | | |
|--------------------|--------|----------|
| | Design | Actual |
| SF CFM | 3400 | 3490 |
| RA CFM | 2300 | 2380 |
| OA CFM | 1100 | 1110 |
| RL Voltage | 208 | NA |
| RL Amperage | 15.30 | 10.1 VFD |
| VFD Max SetPt | - | 56.7HZ |
| SF System SetPt | - | 94% |
| RA Damper Position | - | 47% |
| OA Damper Position | - | 53% |
| Brake Horse Power | - | 3.1VFD |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Horsepower | 5.0 | 5 |
| Phase | 3 | 3 |
| Rated Voltage | 208 | 200 |
| Rated Amperage | 15.30 | 15.3 |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -1.17" |
| Supply Duct SP | - | 1.00" |
| Total ESP | - | 1.25" |
| Fan Total SP | - | 2.17" |

Completed By: Gabe Merk on 04/02/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU/RTU



VAV - Single Duct

AHU-4/FLR 1 MAKERSPACE

| 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) |
| VA4-1 | TITUS | DESV | REHEAT | 5 | 220 | 227 | 55 | 52 | 110 | 118 | 418 |
| VA4-2 | TITUS | DESV | REHEAT | 4 | 140 | 144 | 45 | 44 | 70 | 75 | 310 |
| VA4-3 | TITUS | DESV | REHEAT | 5 | 230 | 244 | 60 | 62 | 115 | 121 | 486 |
| VA4-4 | TITUS | DESV | REHEAT | 14 | 2555 | 2583 | 620 | 626 | 1280 | 1294 | 2953 |
| VA4-5 | TITUS | DESV | REHEAT | 6 | 330 | 323 | 60 | 66 | 170 | 175 | 489 |

Diffuser Supply (GRD)

VA4-1/124

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 124 | CD | 8 | 220 | 311 | 227 | 103.2 |
| Total | | | | 220 | 311 | 227 | 103.18% |

VA4-2/120

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 121 | LD | 4 | 20 | 66 | 22 | 110.0 |
| SGRD2 | 120 | CD | 7 | 120 | 158 | 122 | 101.7 |
| Total | | | | 140 | 224 | 144 | 102.86% |

VA4-3/122

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 122 | CD | 10 | 230 | 310 | 244 | 106.1 |
| Total | | | | 230 | 310 | 244 | 106.09% |

VA4-4/120

| Asset | | | | | | | |
|------------|-----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | OPEN AREA | LD | 6 | 125 | 162 | 116 | 92.8 |
| SGRD2 | 125 | CD | 10 | 305 | 284 | 302 | 99.0 |
| SGRD3 | 125 | CD | 10 | 305 | 316 | 315 | 103.3 |
| SGRD4 | 125 | CD | 10 | 300 | 126 | 289 | 96.3 |
| SGRD4 | 125 | CD | 10 | 300 | 392 | 311 | 103.7 |
| SGRD5 | 125 | CD | 10 | 300 | 254 | 294 | 98.0 |
| SGRD6 | 125 | CD | 10 | 300 | 266 | 306 | 102.0 |
| SGRD7 | 125 | CD | 10 | 300 | 216 | 317 | 105.7 |
| SGRD9 | 125 | CD | 10 | 300 | 222 | 311 | 103.7 |
| SGRD10 | 133 | LD | 6 | 20 | 85 | 22 | 110.0 |
| Total | | | | 2555 | 2323 | 2583 | 101.1% |

VA4-5/FLR 1 MAKERSPACE

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 119 | CD | 8 | 165 | 113 | 155 | 93.9 |
| SGRD2 | 119 | CD | 8 | 165 | 144 | 168 | 101.8 |
| Total | | | | 330 | 257 | 323 | 97.88% |

National TAB

Project:Greene County Library (Xenia, OH)



Circuit Setter

CHW CS/

| Asset | | | | | | | | | | |
|------------|------|------|------------|------------|---------|-----------|-------------|----------|--------------|------------------|
| Asset Name | Size | Type | Design GPM | Setting | Delta P | Final GPM | % to Design | Location | Range (PSID) | Actual DP (PSID) |
| CS-54 | 2.0 | AUTO | 40.4 | ULTRASONIC | NA | 40.1 | 99.3 | | | |
| CS-55 | 2.50 | AUTO | 55.0 | ULTRASONIC | NA | 54.9 | 99.8 | | | |
| CS-56 | 2.50 | AUTO | 47.6 | ULTRASONIC | NA | 47.2 | 99.2 | | | |
| CS-57 | 2.50 | AUTO | 48.2 | ULTRASONIC | NA | 48.4 | 100.4 | | | |
| CS-58 | 1.50 | AUTO | 22.0 | ULTRASONIC | NA | 22.3 | 101.4 | | | |
| Total | | | 213.2 | | | 212.9 | 99.86% | | | |

Completed By: Nick Payne on 04/28/2025

HW CS/

| Asset | | | | | | | | | | |
|------------|------|----------|------------|---------|---------|-----------|-------------|----------|--------------|------------------|
| Asset Name | Size | Type | Design GPM | Setting | Delta P | Final GPM | % to Design | Location | Range (PSID) | Actual DP (PSID) |
| CS1 | 1.25 | AUTOFLOW | 13.7 | - | - | 14.0 | 102.2 | AHU-4 HW | 5-50 PSI | 20.2 PSI |
| CS2 | 0.75 | AUTOFLOW | 0.7 | - | - | 0.7 | 100.0 | VAV 4-1 | 5-50 PSI | 24.5 PSI |
| CS3 | 0.75 | AUTOFLOW | 0.7 | - | - | 0.7 | 100.0 | VAV 4-3 | 5-50 PSI | 21.7 PSI |
| CS4 | 0.75 | AUTOFLOW | 0.7 | - | - | 0.7 | 100.0 | VAV 4-2 | 5-50 PSI | 26.7 PSI |
| CS5 | 0.75 | AUTOFLOW | 1.3 | - | - | 1.3 | 100.0 | CH-5 | 5-50 PSI | 24.6 PSI |
| CS6 | 0.75 | AUTOFLOW | 1.0 | - | - | 1.0 | 100.0 | UH-2 | 5-50 PSI | 17.7 PSI |
| CS7 | 0.75 | AUTOFLOW | 2.2 | - | - | 2.2 | 100.0 | CH-1 | 5-50 PSI | 22.5 PSI |
| CS8 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | UH-1 | 5-50 PSI | 17.2 PSI |
| CS9 | 0.75 | AUTOFLOW | 1.7 | - | - | 1.7 | 100.0 | VAV 3-2 | 5-50 PSI | 20.6 PSI |
| CS10 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VAV 3-3 | 5-50 PSI | 18.6 PSI |
| CS11 | 0.75 | AUTOFLOW | 2.2 | - | - | 2.2 | 100.0 | VAV 3-1 | 5-50 PSI | 17.5 PSI |
| CS12 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | CH-4 | 5-50 PSI | 12.6 PSI |
| CS13 | 0.75 | AUTOFLOW | 3.3 | - | - | 3.3 | 100.0 | CH-3 | 5-50 PSI | 8.5 PSI |
| CS14 | 0.75 | AUTOFLOW | 0.7 | - | - | 0.7 | 100.0 | VAV 3-4 | 5-50 PSI | 19.1 PSI |
| CS15 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VAV 4-4 | 5-50 PSI | 20.2 PSI |
| CS16 | 0.75 | AUTOFLOW | 2.8 | - | - | 2.8 | 100.0 | VAV 2-1 | 5-50 PSI | 22.2 PSI |
| CS17 | 0.75 | AUTOFLOW | 3.3 | - | - | 3.3 | 100.0 | CH-2 | 5-50 PSI | 13.5 PSI |
| CS18 | 0.75 | AUTOFLOW | 1.3 | - | - | 1.3 | 100.0 | VAV 2-2 | 5-50 PSI | 9.5 PSI |
| CS19 | 0.75 | AUTOFLOW | 1.3 | - | - | 1.3 | 100.0 | VAV 2-3 | 5-50 PSI | 11.7 PSI |
| CS20 | 1.00 | AUTOFLOW | 3.5 | - | - | 3.5 | 100.0 | VAV 4-5 | 5-50 PSI | 20.0 PSI |
| CS21 | 0.75 | AUTOFLOW | 3.2 | - | - | 3.2 | 100.0 | VAV 1-4 | 5-50 PSI | 14.1 PSI |
| CS22 | 0.75 | AUTOFLOW | 3.7 | - | - | 3.7 | 100.0 | VAV 2-4 | 5-50 PSI | 11.0 PSI |
| CS23 | 0.75 | AUTOFLOW | 2.5 | - | - | 2.5 | 100.0 | VAV 2-5 | 5-50 PSI | 10.3 PSI |
| CS24 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VAV 2-6 | 5-50 PSI | 15.0 PSI |
| CS25 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VAV 1-2 | 5-50 PSI | 21.2 PSI |
| CS26 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VAV 1-1 | 5-50 PSI | 18.4 PSI |
| CS27 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VAV 1-3 | 5-50 PSI | 17.9 PSI |
| CS28 | 0.75 | AUTOFLOW | 2.9 | - | - | 2.9 | 100.0 | VAV 1-5 | 5-50 PSI | 14.8 PSI |
| CS29 | 0.75 | AUTOFLOW | 2.2 | - | - | 2.2 | 100.0 | VAV 1-7 | 5-50 PSI | 15.7 PSI |
| CS30 | 0.75 | AUTOFLOW | 2.2 | - | - | 2.2 | 100.0 | VAV 1-6 | 5-50 PSI | 12.8 PSI |
| CS31 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VA 5-7 | 5-50 PSI | 10.5 PSI |
| CS32 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VA 5-8 | 5-50 PSI | 12.6 PSI |
| CS33 | 0.75 | AUTOFLOW | 3.5 | - | - | 3.5 | 100.0 | VA 5-6 | 5-50 PSI | 13.8 PSI |
| CS34 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VA 5-5 | 5-50 PSI | 17.9 PSI |
| CS35 | 0.75 | AUTOFLOW | 1.3 | - | - | 1.3 | 100.0 | VA 5-4 | 5-50 PSI | 15.4 PSI |
| CS36 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VA 5-9 | 5-50 PSI | 15.8 PSI |
| CS37 | 0.75 | AUTOFLOW | 1.1 | - | - | 1.1 | 100.0 | VA 5-2 | 5-50 PSI | 14.5 PSI |
| CS38 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VA 5-3 | 5-50 PSI | 15.5 PSI |
| CS39 | 0.75 | AUTOFLOW | 2.4 | - | - | 2.4 | 100.0 | VA 5-1 | 5-50 PSI | 11.5 PSI |
| CS40 | 0.75 | AUTOFLOW | 2.1 | - | - | 2.1 | 100.0 | VVR 1-3 | 5-50 PSI | 9.7 PSI |
| CS41 | 0.75 | AUTOFLOW | 3.6 | - | - | 3.6 | 100.0 | VVR 1-5 | 5-50 PSI | 11.6 PSI |
| CS42 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VVR 1-1 | 5-50 PSI | 13.3 PSI |
| CS43 | 0.75 | AUTOFLOW | 3.4 | - | - | 3.4 | 100.0 | VVR 1-4 | 5-50 PSI | 11.0 PSI |
| CS44 | 0.75 | AUTOFLOW | 2.0 | - | - | 2.0 | 100.0 | VVR 1-2 | 5-50 PSI | 8.6 PSI |
| CS45 | 0.75 | AUTOFLOW | 1.3 | - | - | 1.3 | 100.0 | VVR 2-2 | 5-50 PSI | 6.5 PSI |

| | | | | | | | | | | |
|-------|------|----------|-------|---|---|-------|-------|----------|----------|---------|
| CS46 | 0.75 | AUTOFLOW | 3.3 | - | - | 3.3 | 100.0 | VVR 2-3 | 5-50 PSI | 7.2 PSI |
| CS47 | 0.75 | AUTOFLOW | 1.5 | - | - | 1.5 | 100.0 | VVR 2-5 | 5-50 PSI | 8.2 PSI |
| CS48 | 0.75 | AUTOFLOW | 2.1 | - | - | 2.1 | 100.0 | VVR 2-4 | 5-50 PSI | 5.6 PSI |
| CS49 | 0.75 | AUTOFLOW | 2.2 | - | - | 1.9 | 86.4 | VVR 2-1 | 5-50 PSI | 7.8 PSI |
| CS50 | 1.25 | AUTOFLOW | 10.1 | - | - | 10.1 | 100.0 | AHU-2 HW | 5-50 PSI | 8.2 PSI |
| CS51 | 1.00 | AUTOFLOW | 8.7 | - | - | 8.7 | 100.0 | AHU-5 HW | 5-50 PSI | 9.9 PSI |
| CS52 | 1.00 | AUTOFLOW | 6.9 | - | - | 6.9 | 100.0 | AHU-3 HW | 5-50 PSI | 7.2 PSI |
| CS53 | 1.25 | AUTOFLOW | 9.2 | - | - | 9.2 | 100.0 | AHU-1 HW | 5-50 PSI | 6.4 PSI |
| Total | | | 149.8 | | | 149.8 | 100% | | | |

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: FAN - Exhaust



Asset: EF-1

AREA:FLR 1 RR

| Unit Data | | |
|------------|-------------|-----------------------|
| | Design | Actual |
| MFG | NA | COOK |
| Model Num | NA | 100ACEMC15DM |
| Serial Num | - | 108PK57736-01/0000701 |
| Type | CRE DNBLAST | CRE DNBLAST |

| Test Data | | |
|-----------|--------|--------|
| | Design | Actual |
| CFM | 150 | 217 |
| Total ESP | 0.75 | -0.46 |

| Motor Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | US MOTORS |
| Frame | - | 48Y |
| Horsepower | 0.125 | 1/8 |
| Motor Rpm | 1475 | 1600 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 1.7 |

Completed By: Chase Wright on 04/02/2025

Notes:
Single speed fan cannot adjust total CFM.

Written By: Cody Collett on 12/05/2024

National TAB

Project: Greene County Library (Xenia, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-1/FLR 1 RR

| Asset | | | | | | | | |
|------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| EGRD1 | RG | 6 | 75 | 1 | 18 | 99 | 99 | 132.0 |
| EGRD2 | RG | 6 | 75 | 1 | 27 | 118 | 118 | 157.3 |
| Total | | | 150 | | 45 | 217 | 217 | 144.67% |

Completed By: Cody Collett on 12/05/2024

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: FAN - Exhaust



Asset: EF-2

AREA:FLR 2 RR

| Unit Data | | |
|------------|-------------|-----------------------|
| | Design | Actual |
| MFG | NA | COOK |
| Model Num | NA | 90ACELC15DL |
| Serial Num | - | 108PK57736-01/0002201 |
| Type | CRE DNBLAST | CRE DNBLAST |

| Test Data | | |
|-----------|--------|--------|
| | Design | Actual |
| CFM | 150 | 235 |
| Total ESP | 0.50 | -0.22 |

| Motor Data | | |
|------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | US MOTORS |
| Frame | - | 48Y |
| Horsepower | 0.125 | 1/8 |
| Motor Rpm | 1386 | 1600 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |
| Amperage (rated) | - | 1.7 |
| Service Factor | - | NL |

Completed By: Chase Wright on 04/02/2025

Notes:
Single speed fan cannot adjust total CFM.

Written By: Cody Collett on 12/05/2024

National TAB

Project: Greene County Library (Xenia, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-2/FLR 2 RR

| Asset | | | | | | | | |
|------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| EGRD1 | RG | 6 | 75 | 1 | 127 | | 127 | 169.3 |
| EGRD2 | RG | 6 | 75 | 1 | 108 | | 108 | 144.0 |
| Total | | | 150 | | 235 | 0 | 235 | 156.67% |

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: FAN - Exhaust



Asset: EF-3

AREA:FLR 2 RR & JAN

| Unit Data | | |
|------------|-------------|-----------------------|
| | Design | Actual |
| MFG | NA | COOK |
| Model Num | NA | 120ACE120C15D |
| Serial Num | - | 108PK57736-01/0003701 |
| Type | CRE DNBLAST | CRE DNBLAST |

| Test Data | | |
|-----------|--------|--------|
| | Design | Actual |
| CFM | 750 | 717 |

| Motor Data | | |
|-----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | COOK |
| Horsepower | 0.25 | 0.25 |
| Motor Rpm | 1152 | 1550 |
| Phase | 1 | 1 |
| Voltage (rated) | 115 | 115 |

Completed By: Chase Wright on 04/02/2025

Notes:
Janitor 242 grille not installed.

Written By: Nick Payne on 04/28/2025

National TAB

Project: Greene County Library (Xenia, OH)

FAN - Exhaust



Diffuser Ret/Exh (GRD)

EF-3/FLR 2 RR & JAN

| Asset | | | | | | | | |
|------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| EGRD1 | RG | 0 | 0 | 0 | 0 | 0 | 0 | - |
| EGRD2 | RG | 8 | 150 | 1 | 220 | | 144 | 96.0 |
| EGRD3 | RG | 8 | 150 | 1 | 260 | | 154 | 102.7 |
| EGRD4 | RG | | 150 | 1 | 66 | | 142 | 94.7 |
| EGRD4 | RG | 4 | 75 | 1 | 39 | | 69 | 92.0 |
| EGRD5 | RG | | 150 | 1 | 44 | | 138 | 92.0 |
| EGRD6 | RG | | 75 | 1 | 105 | | 70 | 93.3 |
| Total | | | 750 | | 734 | 0 | 717 | 95.6% |

Completed By: Chase Wright on 04/02/2025

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: FAN - Exhaust



Asset: LEF-1

AREA:SM LASER EXH BLOWER

| Unit Data | | |
|------------|------------------|------------------|
| | Design | Actual |
| MFG | NA | CINCINNATI FAN |
| Model Num | NA | SPB-12 |
| Serial Num | - | 2304165 |
| Type | LASER EXH BLOWER | LASER EXH BLOWER |

| Test Data | | |
|-------------|--------|--------|
| | Design | Actual |
| CFM | 400 | 438 |
| RL Voltage | - | 208 |
| RL Amperage | - | 4.5 |
| Total ESP | 8 | 7.4 |

| Motor Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | WEG |
| Frame | - | 143/5T |
| Horsepower | - | 2.0 |
| Motor Rpm | 3500 | 3520 |
| Phase | 3 | 3 |
| Voltage (rated) | 208 | 208 |
| Amperage (rated) | - | 4.9 |
| Service Factor | - | 1.15 |

Completed By: Nick Payne on 12/05/2024

Notes:
45hz

Written By: Nick Payne on 04/28/2025

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: FAN - Exhaust



Asset: LEF-2

AREA: LG LASER EXH BLOWER

| Unit Data | | |
|------------|------------------|------------------|
| | Design | Actual |
| MFG | NA | CINCINNATI FAN |
| Model Num | NA | SPB-12 |
| Serial Num | - | 2304164 |
| Type | LASER EXH BLOWER | LASER EXH BLOWER |

| Test Data | | |
|-------------|--------|--------|
| | Design | Actual |
| CFM | 735 | 758 |
| RL Voltage | - | 208 |
| RL Amperage | - | 4.2 |
| Total ESP | 6 | 4.4 |

| Motor Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | WEG |
| Frame | - | 143/5T |
| Horsepower | 2.0 | 2.0 |
| Motor Rpm | 3500 | 3520 |
| Phase | 3 | 3 |
| Voltage (rated) | 208 | 208 |
| Amperage (rated) | - | 4.9 |
| Service Factor | - | 1.15 |

Completed By: Nick Payne on 12/05/2024

Notes:
45hz

Written By: Nick Payne on 04/28/2025

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: FAN - Exhaust



Asset: RF-1

AREA:RELIEF FAN

| Unit Data | | |
|-------------------|-------------|---------------------------|
| | Design | Actual |
| MFG | NA | COOK |
| Model Num | NA | 165C17D (VF) 165ACE2 |
| Serial Num | - | 108SK57736- 00/0000701 |
| Type | CRE DNBLAST | CRE DNBLAST |

| Test Data | | |
|--------------------|--------|--------|
| | Design | Actual |
| CFM | 3200 | 3033 |
| RL Voltage | - | 208 |
| RL Amperage | - | 4.2 |

| Motor Data | | |
|-------------------------|--------|-------------|
| | Design | Actual |
| Motor MFG | - | McMillian |
| Frame | - | B.F.D.C 182 |
| Horsepower | 2.0 | 2 |
| Motor Rpm | 1800 | 1800 |
| Phase | 1 | 1 |
| Voltage (rated) | 208 | 208 |
| Amperage (rated) | - | 5.7 |

Completed By: Chase Wright on 04/02/2025

National TAB

Project: Greene County Library (Xenia, OH)

System/Unit: Pump



Asset: CWP-1

AREA: CHILLED WATER

| Unit Data | | |
|-------------------|-----------|-------------------|
| | Design | Actual |
| MFG | NA | PATTERSON |
| Model Num | NA | E2B13A-CC |
| Serial Num | - | MSC000226701-1-02 |
| Service | - | CHILLED WATER |
| Type | - | Centrifugal |
| Configuration | - | Ground |
| Pump RPM | - | 1800 |
| GPM/HD | 140 - 105 | 140-105 |
| Impeller Diameter | - | 10.3 |

| Test Data | | |
|---------------------------|--------|----------|
| | Design | Actual |
| Final Suction Pres (FT) | - | 30.1 ft |
| Final Discharge Pres (FT) | - | 134.4 ft |
| Total Head Pres (FT) | 105 | 104.3 ft |
| Final GPM | 140 | 142 |
| Motor Frequency | - | 56 hz |
| System SetPt | - | 13 psi |
| RL Voltage | - | 199 vfd |
| RL Amperage | - | 18.9 vfd |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | BALDOR |
| Frame | - | 215 |
| Horsepower | 10.0 | 10 |
| Motor Rpm | - | 1800 |
| Phase | - | 3 |
| Voltage | - | 208 |
| Amperage | - | 27.9 |
| Service Factor | - | 1.15 |
| Efficiency | - | 91 |
| Power Factor | - | 84 |

Completed By: Nick Payne on 04/25/2025

National TAB

Project: Greene County Library (Xenia, OH)

System/Unit: Pump



Asset: CWP-2

AREA: CHILLED WATER

| Unit Data | | |
|-------------------|-----------|-------------------|
| | Design | Actual |
| MFG | NA | PATTERSON |
| Model Num | NA | E2B13A-CC |
| Serial Num | - | MSC000226701-1-01 |
| Service | - | CHILLED WATER |
| Type | - | Centrifugal |
| Configuration | - | Ground |
| Pump RPM | - | 1800 |
| GPM/HD | 140 - 105 | 140-105 |
| Impeller Diameter | - | 10.3 |

| Test Data | | |
|---------------------------|--------|----------|
| | Design | Actual |
| Final Suction Pres (FT) | - | 29.5 ft |
| Final Discharge Pres (FT) | - | 133.9 ft |
| Total Head Pres (FT) | 105 | 104.4 ft |
| Final GPM | 140 | 142 |
| Motor Frequency | - | 56 |
| System SetPt | - | 13 psi |
| RL Voltage | - | 202 vfd |
| RL Amperage | - | 17.5 vfd |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | BALDOR |
| Frame | - | 215 |
| Horsepower | 10.0 | 10 |
| Motor Rpm | - | 1800 |
| Phase | - | 3 |
| Voltage | - | 208 |
| Amperage | - | 27 |
| Service Factor | - | 1.15 |
| Efficiency | - | 91 |
| Power Factor | - | 84 |

Completed By: Nick Payne on 04/25/2025

National TAB

Project: Greene County Library (Xenia, OH)

System/Unit: Pump



Asset: HWP-1

AREA:HOT WATER

| Unit Data | | |
|-------------------|---------|---------------|
| | Design | Actual |
| MFG | NA | PATTERSON |
| Model Num | NA | E1.5BA9A-CC |
| Serial Num | - | MS-C000228383 |
| Service | - | HOT WATER |
| Type | - | CENTRIFUGAL |
| Configuration | - | HORIZONTAL |
| Pump RPM | - | 1800 |
| GPM/HD | 88 - 70 | 88 - 70 |
| Impeller Diameter | - | 8.625" |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | BALDOR |
| Frame | - | 182 M |
| Horsepower | 3.0 | 3 |
| Motor Rpm | - | 1765 |
| Phase | - | 3 |
| Voltage | - | 200 |
| Amperage | - | 9.7 |
| Service Factor | - | 1.15 |
| Efficiency | - | 89.5 |
| Power Factor | - | 74 |

| Test Data | | |
|---------------------------|--------|----------|
| | Design | Actual |
| Pump Off Pres | - | 58.7 FT |
| Valve Open GPM (FT) | - | 87 GPM |
| Valve Open Diff (FT) | - | 70.7 FT |
| Final Suction Pres (FT) | - | 46.6 FT |
| Final Discharge Pres (FT) | - | 117.3 FT |
| Total Head Pres (FT) | 70 | 70.7 FT |
| Final GPM | 88 | 89 |
| Pump Rotation | - | CCW |
| Motor RPM | - | 1766 |
| Pump RPM | - | 1766 |
| Motor Frequency | - | 60 HZ |
| System SetPt | - | 8.5 PSI |
| RL Voltage | - | 194 VFD |
| RL Amperage | - | 9.3 VFD |

Completed By: Nick Payne on 04/25/2025

National TAB

Project: Greene County Library (Xenia, OH)

System/Unit: Pump



Asset: HWP-2

AREA:HOT WATER

| Unit Data | | |
|-------------------|---------|---------------|
| | Design | Actual |
| MFG | NA | PATTERSON |
| Model Num | NA | E1.5BA9A-CC |
| Serial Num | - | MS-C000228383 |
| Service | - | HOT WATER |
| Type | - | CENTRIFUGAL |
| Configuration | - | HORIZONTAL |
| Pump RPM | - | 1800 |
| GPM/HD | 88 - 70 | 88 - 70 |
| Impeller Diameter | - | 8.625" |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | BALDOR |
| Frame | - | 182 M |
| Horsepower | 3.0 | 3 |
| Motor Rpm | - | 1765 |
| Phase | - | 3 |
| Voltage | - | 200 |
| Amperage | - | 9.7 |
| Service Factor | - | 1.15 |
| Efficiency | - | 89.5 |
| Power Factor | - | 74 |

| Test Data | | |
|---------------------------|--------|----------|
| | Design | Actual |
| Pump Off Pres | - | 58.7 FT |
| Valve Open GPM (FT) | - | 78 GPM |
| Valve Open Diff (FT) | - | 73.5 FT |
| Final Suction Pres (FT) | - | 45.4 FT |
| Final Discharge Pres (FT) | - | 118.9 FT |
| Total Head Pres (FT) | 70 | 73.5 |
| Final GPM | 88 | 87 |
| Pump Rotation | - | CCW |
| Motor RPM | - | 1768 |
| Pump RPM | - | 1768 |
| Motor Frequency | - | 60 HZ |
| System SetPt | - | 8.5 PSI |
| RL Voltage | - | 203 VFD |
| RL Amperage | - | 9.2 VFD |

Completed By: Nick Payne on 04/25/2025

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: AHU-DUAL FAN



Asset: AHU-1

AREA:FLR 1 SOUTH

| UNIT DATA - SUPPLY | | |
|----------------------------|---------|---------------|
| | Design | Actual |
| Manufacturer | NA | DAIKIN |
| Model Number | NA | DAHA15AHWW2DV |
| Serial Number | - | FBOU231003250 |
| No. Pre-Filters / Size (1) | 18X24X2 | 9 / 18X24X2 |
| No. Pre-Filters / Size (2) | - | 9 / 18X24X4 |

| MOTOR DATA - SUPPLY | |
|---------------------|---------------|
| | Actual |
| Motor MFG / Frame | BALDOR / 215T |
| Horsepower / RPM | 10 / 1770 |
| Rated Volts / Phase | 200 / 3 |
| Rated Amperage / SF | 29.5 / 1.15 |

| TEST DATA - SUPPLY | | |
|--------------------|--------|----------|
| | Design | Actual |
| Total CFM | 6990 | 6368 |
| OA CFM | 870 | 902 |
| Fan RPM | - | 1638 |
| VFD Speed | - | 54.6 HZ |
| RL Voltage | - | NA |
| RL Amperage | - | 24.6 VFD |
| Motor B.H.P. | - | 7.8 VFD |

| PERFORMANCE DATA - SUPPLY | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Static Pressure Stpt | - | 1.3" |
| Suction S.P. | - | -1.56" |
| Discharge S.P. | - | 2.05" |
| Total S.P. | - | 3.61" |
| Total ESP | - | 2.51" |

Completed By: Gabe Merk on 04/02/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU-DUAL FAN



VAV - Single Duct

AHU-1/FLR 1 SOUTH

| 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) | |
| VA1-2 | TITUS | DESV | VAV | 10 | 985 | 1022 | 420 | 429 | 490 | 505 | 1436 | |
| VA1-3 | TITUS | DESV | VAV | 9 | 420 | 407 | 355 | 348 | 425 | 416 | 1214 | |

VAV-Fan Powered Box

AHU-1/FLR 1 SOUTH

| Asset | | | | | | | | | | | | |
|------------|-------|-----------|---------|-------|------------|---------------------|--------------|---------------------|--------------|-----------------------|----------------|----------|
| Asset Name | MFG | Model Num | Service | Type | Inlet Size | Design Max Cool CFM | Max Cool CFM | Design Min Cool CFM | Min Cool CFM | Design Fan CFM (Heat) | Fan CFM (Heat) | Ak (max) |
| VA1-1 | TITUS | DTFS-F | REHEAT | FPVAV | 14 | 1985 | 1898 | 900 | 855 | 900 | 859 | 2714 |
| VA1-4 | TITUS | DTFS-F | REHEAT | FPVAV | 8 | 450 | 452 | 250 | 255 | 250 | 253 | 794 |
| VA1-5 | TITUS | DTFS-F | REHEAT | FPVAV | 8 | 760 | 772 | 360 | 354 | 360 | 354 | 781 |
| VA1-6 | TITUS | DTFS-F | REHEAT | FPVAV | 10 | 970 | 996 | 540 | 551 | 540 | 555 | 880 |
| VA1-7 | TITUS | DTFS-F | REHEAT | FPVAV | 10 | 1050 | 1106 | 540 | 552 | 540 | 548 | 1510 |

Diffuser Supply (GRD)

VA1-1/FLR 1 EAST

| Asset | | | | | | | |
|------------|-----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | OPEN AREA | CD | 10 | 300 | 350 | 278 | 92.7 |
| SGRD2 | OPEN AREA | CD | 10 | 300 | 313 | 277 | 92.3 |
| SGRD3 | OPEN AREA | CD | 10 | 285 | 268 | 307 | 107.7 |
| SGRD4 | OPEN AREA | CD | 10 | 300 | 353 | 272 | 90.7 |
| SGRD4 | OPEN AREA | CD | 10 | 300 | 287 | 282 | 94.0 |
| SGRD5 | 101 | CD | 11 | 500 | 418 | 482 | 96.4 |
| Total | | | | 1985 | 1989 | 1898 | 95.62% |

VA1-2/OPEN AREA

| Asset | | | | | | | |
|------------|-----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | OPEN AREA | CD | 6 | 160 | 137 | 172 | 107.5 |
| SGRD2 | OPEN AREA | CD | 6 | 125 | 118 | 128 | 102.4 |
| SGRD3 | OPEN AREA | CD | 6 | 125 | 128 | 124 | 99.2 |
| SGRD4 | OPEN AREA | CD | 6 | 125 | 133 | 128 | 102.4 |
| SGRD4 | OPEN AREA | CD | 8 | 200 | 225 | 209 | 104.5 |
| SGRD5 | OPEN AREA | CD | 10 | 250 | 313 | 261 | 104.4 |
| Total | | | | 985 | 1054 | 1022 | 103.76% |

VA1-3/OPEN AREA

| Asset | | | | | | | |
|------------|-----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | OPEN AREA | LD | | 210 | 251 | 200 | 95.2 |
| SGRD2 | OPEN AREA | LD | | 210 | 192 | 207 | 98.6 |
| Total | | | | 420 | 443 | 407 | 96.9% |

VA1-4/OPEN AREA

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | OPEN AREA | LD | 6 | 125 | | 132 | 105.6 |
| SGRD2 | OPEN AREA | LD | 6 | 125 | | 123 | 98.4 |
| SGRD3 | OPEN AREA | CD | 7 | 150 | | 149 | 99.3 |
| SGRD4 | 106 | LD | 6 | 50 | | 48 | 96.0 |
| Total | | | | 450 | 0 | 452 | 100.44% |

VA1-5/103

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 104 | CD | 9 | 290 | 707 | 318 | 109.7 |
| SGRD2 | 103 | CD | 11 | 470 | 143 | 454 | 96.6 |
| Total | | | | 760 | 850 | 772 | 101.58% |

VA1-6/102

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 102 | LD | 6 | 160 | | 166 | 103.8 |
| SGRD2 | 102 | LD | 6 | 160 | | 172 | 107.5 |
| SGRD3 | 102 | LD | 6 | 125 | | 135 | 108.0 |
| SGRD4 | 102 | LD | 6 | 125 | | 119 | 95.2 |
| SGRD4 | 102 | LD | 10 | 400 | | 404 | 101.0 |
| Total | | | | 970 | 0 | 996 | 102.68% |

VA1-7/102

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 102 | LD | 12 | 400 | 748 | 434 | 108.5 |
| SGRD2 | 102 | LD | 12 | 670 | 782 | 672 | 100.3 |
| Total | | | | 1070 | 1530 | 1106 | 103.36% |

| Asset | Notes | Date | Written By |
|--------------|---|-------------|-------------------|
| VA1-7 | 2 Diffusers removed per addendum. Total distributed to remaining. | 04/01/2025 | Nick Payne |

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: AHU-DUAL FAN



Asset: AHU-2

AREA:FLR 1 WEST

| UNIT DATA - SUPPLY | | |
|----------------------------|--------|---------------|
| | Design | Actual |
| Manufacturer | NA | DAIKIN |
| Model Number | NA | DAHA15AHWW2DV |
| Serial Number | - | FBOU231003251 |
| No. Pre-Filters / Size (1) | - | 9/18"x24"x2" |
| No. Pre-Filters / Size (2) | - | 9/18"x24"x4" |

| MOTOR DATA - SUPPLY | |
|---------------------|---------------|
| | Actual |
| Motor MFG / Frame | BALDOR / 213T |
| Horsepower / RPM | 7.5 / 1770 |
| Rated Volts / Phase | 208 / 3 |
| Rated Amperage / SF | 23.3 / 1.15 |

| TEST DATA - SUPPLY | | |
|--------------------|--------|----------|
| | Design | Actual |
| Total CFM | 5785 | 6049 |
| OA CFM | 1292 | 1240 |
| Fan RPM | - | 1470 |
| VFD Speed | - | 49HZ |
| RL Voltage | - | NA |
| RL Amperage | - | 19.7 VFD |
| Motor B.H.P. | - | 5.7 VFD |

| PERFORMANCE DATA - SUPPLY | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Static Pressure Stpt | - | 1.20" |
| Suction S.P. | - | -1.52" |
| Discharge S.P. | - | 1.30" |
| Total S.P. | - | 2.82" |
| Total ESP | - | 2.04" |

Completed By: Gabe Merk on 04/11/2025

Notes:
OA DAMPER @9% MIN

Written By: Gabe Merk on 04/02/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU-DUAL FAN



VAV - Single Duct

AHU-2/FLR 1 WEST

| 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) | |
| VA2-2 | TITUS | DESV | VAV | 7 | 515 | 502 | 110 | 109 | 230 | 225 | 610 | |
| VA2-3 | TITUS | DESV | VAV | 7 | 490 | 489 | 125 | 122 | 265 | 261 | 749 | |

VAV-Fan Powered Box

AHU-2/FLR 1 WEST

| Asset | | | | | | | | | | | | |
|------------|-------|-----------|---------|------|------------|---------------------|--------------|---------------------|--------------|-----------------------|----------------|----------|
| Asset Name | MFG | Model Num | Service | Type | Inlet Size | Design Max Cool CFM | Max Cool CFM | Design Min Cool CFM | Min Cool CFM | Design Fan CFM (Heat) | Fan CFM (Heat) | Ak (max) |
| VA2-1 | TITUS | DTFS-F | HEAT | VAV | 12 | 1720 | 1723 | 405 | 408 | 405 | 408 | 2290 |
| VA2-4 | TITUS | DTFS-F | HEAT | VAV | 12 | 1160 | 1086 | 350 | 345 | 350 | 347 | 1838 |
| VA2-5 | TITUS | DTFS-F | HEAT | VAV | 12 | 1240 | 1229 | 350 | 366 | 350 | 348 | 1958 |
| VA2-6 | TITUS | DTFS-F | HEAT | VAV | 8 | 660 | 681 | 100 | 101 | 100 | 108 | 1006 |

Diffuser Supply (GRD)

VA2-1/118

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 118 | LD | 8 | 172 | | 189 | 109.9 |
| SGRD2 | 118 | LD | 8 | 172 | | 180 | 104.7 |
| SGRD3 | 118 | LD | 8 | 172 | | 175 | 101.7 |
| SGRD4 | 118 | LD | 8 | 172 | | 187 | 108.7 |
| SGRD4 | 118 | LD | 8 | 172 | | 168 | 97.7 |
| SGRD5 | 118 | LD | 8 | 172 | | 185 | 107.6 |
| SGRD6 | 118 | LD | 8 | 172 | | 167 | 97.1 |
| SGRD7 | 118 | LD | 8 | 172 | | 157 | 91.3 |
| SGRD9 | 118 | LD | 8 | 172 | | 160 | 93.0 |
| SGRD10 | 118 | LD | 8 | 172 | | 155 | 90.1 |
| Total | | | | 1720 | 0 | 1723 | 100.17% |

VA2-2/112

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 110 | LD | 4 | 40 | 61 | 41 | 102.5 |
| SGRD2 | 117 | LD | 6 | 55 | 121 | 57 | 103.6 |
| SGRD3 | 111 | LD | 4 | 40 | 61 | 39 | 97.5 |
| SGRD4 | 108 | CD | 8 | 150 | 237 | 157 | 104.7 |
| SGRD4 | 116 | LD | 8 | 230 | 47 | 208 | 90.4 |
| Total | | | | 515 | 527 | 502 | 97.48% |

VA2-3/108

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 109B | LD | 4 | 30 | 74 | 33 | 110.0 |
| SGRD2 | 108 | LD | 8 | 230 | 240 | 224 | 97.4 |
| SGRD3 | 108 | LD | 8 | 230 | 214 | 232 | 100.9 |
| Total | | | | 490 | 528 | 489 | 99.8% |

VA2-4/FLR 1 WEST

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 108 | LD | 10 | 240 | 158 | 216 | 90.0 |
| SGRD2 | 108 | LD | 10 | 240 | 154 | 218 | 90.8 |
| SGRD3 | 108 | LD | 10 | 240 | 267 | 220 | 91.7 |
| SGRD4 | 108 | LD | 10 | 240 | 240 | 222 | 92.5 |
| SGRD4 | 108 | LD | 8 | 200 | 345 | 210 | 105.0 |
| Total | | | | 1160 | 1164 | 1086 | 93.62% |

VA2-5/108

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 108 | LD | 10 | 260 | 328 | 269 | 103.5 |
| SGRD2 | 108 | LD | 10 | 260 | 314 | 278 | 106.9 |
| SGRD3 | 108 | LD | 10 | 240 | 328 | 225 | 93.8 |
| SGRD4 | 108 | LD | 10 | 240 | 184 | 217 | 90.4 |
| SGRD4 | 108 | LD | 10 | 240 | 311 | 240 | 100.0 |
| Total | | | | 1240 | 1465 | 1229 | 99.11% |

VA2-6/107

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 107 | CD | 8 | 205 | 198 | 208 | 101.5 |
| SGRD2 | 107 | CD | 8 | 205 | 177 | 206 | 100.5 |
| SGRD3 | OPEN | SG | 8 | 250 | 333 | 267 | 106.8 |
| Total | | | | 660 | 708 | 681 | 103.18% |

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: AHU-DUAL FAN



Asset: AHU-3

AREA:FLR 1 EAST

| UNIT DATA - SUPPLY | | |
|----------------------------|--------|----------------------------------|
| | Design | Actual |
| Manufacturer | NA | DAIKIN |
| Model Number | NA | DAHA07AHWW2DV |
| Serial Number | - | SLPU231103975 |
| No. Pre-Filters / Size (1) | - | (6/6) (18"x24"x2"/18"x24"x4") |

| MOTOR DATA - SUPPLY | |
|---------------------|---------|
| | Actual |
| Motor MFG / Frame | NA / NA |
| Horsepower / RPM | 4 / NA |
| Rated Volts / Phase | 208/3 |
| Rated Amperage / SF | 9.7/ NA |

| TEST DATA - SUPPLY | | |
|--------------------|--------|-------------|
| | Design | Actual |
| Total CFM | 2700 | 2695 |
| OA CFM | 650 | 667 |
| VFD Speed | - | 100% |
| RL Voltage | - | 207/210/209 |
| RL Amperage | - | 4.2/4.1/4.1 |
| Motor B.H.P. | - | 1.7 |

| PERFORMANCE DATA - SUPPLY | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Static Pressure Stpt | - | |
| Suction S.P. | - | -0.98" |
| Discharge S.P. | - | 1.40" |
| Total S.P. | - | 2.38" |
| Total ESP | - | 1.67" |

Completed By: Gabe Merk on 04/11/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU-DUAL FAN



VAV - Single Duct

AHU-3/FLR 1 EAST

| 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) | |
| VA3-2 | TITUS | DESV | VAV | 8 | 630 | 594 | 185 | 174 | 340 | 177 | 1026 | |
| VA3-4 | TITUS | DESV | VAV | 12 | 1390 | 1409 | 410 | 418 | 690 | 699 | 2054 | |

VAV-Fan Powered Box

AHU-3/FLR 1 EAST

| Asset | | | | | | | | | | | | |
|------------|-------|-----------|---------|-------|------------|---------------------|--------------|---------------------|--------------|-----------------------|----------------|----------|
| Asset Name | MFG | Model Num | Service | Type | Inlet Size | Design Max Cool CFM | Max Cool CFM | Design Min Cool CFM | Min Cool CFM | Design Fan CFM (Heat) | Fan CFM (Heat) | Ak (max) |
| VA3-1 | TITUS | DTFS-F | OFFICE | FPVAV | 8 | 625 | 586 | 185 | 192 | 185 | 180 | 748 |
| VA3-3 | TITUS | DTFS-F | OFFICE | FPVAV | 8 | 515 | 537 | 160 | 162 | 160 | 168 | 791 |

Diffuser Supply (GRD)

VA3-1/138

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 137 | CD | 7 | 125 | 75 | 116 | 92.8 |
| SGRD2 | 138 | LD | 10 | 225 | 185 | 208 | 92.4 |
| SGRD3 | 139 | LD | 10 | 275 | 192 | 262 | 95.3 |
| Total | | | | 625 | 452 | 586 | 93.76% |

VA3-2/127

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 126 | CD | 6 | 50 | 37 | 46 | 92.0 |
| SGRD2 | 127 | CD | 6 | 60 | 150 | 56 | 93.3 |
| SGRD3 | 128 | LD | 8 | 230 | 188 | 211 | 91.7 |
| SGRD4 | 127 | LD | 4 | 60 | 44 | 58 | 96.7 |
| SGRD4 | 128 | LD | 8 | 230 | 195 | 223 | 97.0 |
| Total | | | | 630 | 614 | 594 | 94.29% |

VA3-3/FLR 1 EAST

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 131 | CD | 6 | 130 | 135 | 136 | 104.6 |
| SGRD2 | 135 | CD | 6 | 130 | 114 | 140 | 107.7 |
| SGRD3 | 136 | CD | 6 | 130 | 102 | 128 | 98.5 |
| SGRD4 | 137 | CD | 6 | 125 | 51 | 133 | 106.4 |
| Total | | | | 515 | 402 | 537 | 104.27% |

VA3-4/134

| Asset | | | | | | | |
|------------|-----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 134 | CD | 6 | 110 | 134 | 108 | 98.2 |
| SGRD2 | OPEN AREA | LD | 8 | 205 | 245 | 210 | 102.4 |
| SGRD3 | 132 | CD | 4 | 30 | 35 | 33 | 110.0 |
| SGRD4 | 134 | CD | 6 | 110 | 126 | 116 | 105.5 |
| SGRD4 | OPEN AREA | LD | 8 | 205 | 226 | 204 | 99.5 |
| SGRD5 | 134 | CD | 6 | 110 | 112 | 102 | 92.7 |
| SGRD6 | 134 | CD | 6 | 110 | 109 | 105 | 95.5 |
| SGRD7 | 134 | CD | 6 | 110 | 125 | 112 | 101.8 |
| SGRD9 | 134 | CD | 6 | 110 | 136 | 108 | 98.2 |
| SGRD10 | 134 | CD | 6 | 110 | 116 | 116 | 105.5 |
| SGRD11 | 134 | CD | 7 | 180 | 228 | 195 | 108.3 |
| Total | | | | 1390 | 1592 | 1409 | 101.37% |

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: AHU-DUAL FAN



Asset: AHU-5

AREA:FLR 2 EAST

| UNIT DATA - SUPPLY | | |
|----------------------------|--------|---------------|
| | Design | Actual |
| Manufacturer | NA | DAIKIN |
| Model Number | NA | DAHA15AHWW2DV |
| Serial Number | - | FBOU231003252 |
| No. Pre-Filters / Size (1) | - | 9 / 18X24X2 |
| No. Pre-Filters / Size (2) | - | 9 / 18X24X4 |

| MOTOR DATA - SUPPLY | |
|---------------------|---------------|
| | Actual |
| Motor MFG / Frame | BALDOR / 213T |
| Horsepower / RPM | 7.5 / 1770 |
| Rated Volts / Phase | 200 / 3 |
| Rated Amperage / SF | 23.3 / 1.15 |

| TEST DATA - SUPPLY | | |
|--------------------|--------|----------|
| | Design | Actual |
| Total CFM | 5680 | 5644 |
| OA CFM | 870 | 861 |
| VFD Speed | - | 46.9HZ |
| RL Amperage | - | 20.1 VFD |
| Motor B.H.P. | - | 5.5 VFD |

| PERFORMANCE DATA - SUPPLY | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Static Pressure Stpt | - | 1" |
| Suction S.P. | - | -1.78" |
| Discharge S.P. | - | 1.07" |
| Total S.P. | - | 2.85" |
| Total ESP | - | 2.11" |

Completed By: Gabe Merk on 04/11/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU-DUAL FAN



VAV - Single Duct

AHU-5/FLR 2 EAST

| 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) |
| VA5-2 | TITUS | DESV | REHEAT | 5 | 395 | | 115 | | 140 | | |
| VA5-4 | TITUS | DESV | REHEAT | 8 | 565 | 581 | 280 | 291 | 330 | 319 | 864 |
| VA5-5 | TITUS | DESV | REHEAT | 10 | 1100 | 1104 | 470 | 482 | 550 | 577 | 1321 |

VAV-Fan Powered Box

AHU-5/FLR 2 EAST

| Asset | | | | | | | | | | | | |
|------------|-------|-----------|---------|-------|------------|---------------------|--------------|---------------------|--------------|-----------------------|----------------|----------|
| Asset Name | MFG | Model Num | Service | Type | Inlet Size | Design Max Cool CFM | Max Cool CFM | Design Min Cool CFM | Min Cool CFM | Design Fan CFM (Heat) | Fan CFM (Heat) | Ak (max) |
| VA5-1 | TITUS | DTFS-F | 220 | FPVAV | 8 | 660 | 682 | 290 | 295 | 290 | 293 | 844 |
| VA5-3 | TITUS | DTFS-F | 219 | FPVAV | 8 | 550 | 540 | 240 | 237 | 240 | 246 | 859 |
| VA5-6 | TITUS | DTFS-F | 210 | FPVAV | 10 | 850 | 887 | 370 | 355 | 370 | 369 | 1323 |
| VA5-7 | TITUS | DTFS-F | OFFICE | FPVAV | 8 | 550 | 543 | 240 | 248 | 302 | 310 | 798 |
| VA5-8 | TITUS | DTFS-F | 208 | FPVAV | 8 | 510 | 524 | 220 | 226 | 220 | 229 | 791 |
| VA5-9 | TITUS | DTFS-F | 218 | FPVAV | 8 | 500 | 526 | 275 | 281 | 275 | 280 | 955 |

Diffuser Supply (GRD)

VA5-1/220

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 221 | LD | 10 | 330 | 217 | 338 | 102.4 |
| SGRD2 | 220 | LD | 10 | 330 | 248 | 344 | 104.2 |
| Total | | | | 660 | 465 | 682 | 103.33% |

VA5-2/225

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 224 | LD | 6 | 50 | | | - |
| SGRD2 | 225 | CD | 6 | 95 | | | - |
| SGRD3 | 225 | CD | 6 | 90 | | | - |
| SGRD4 | 217 | LD | 7 | 160 | | | - |
| Total | | | | 395 | 0 | 0 | 0% |

VA5-3/219

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 219 | CD | 8 | 225 | | 217 | 96.4 |
| SGRD2 | 219 | LD | 10 | 325 | | 323 | 99.4 |
| Total | | | | 550 | 0 | 540 | 98.18% |

VA5-4/229

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 229 | CD | 8 | 170 | 205 | 178 | 104.7 |
| SGRD2 | 234 | CD | 6 | 85 | 99 | 82 | 96.5 |
| SGRD3 | 234 | CD | 6 | 85 | 105 | 89 | 104.7 |
| SGRD4 | 228 | LD | 6 | 50 | 139 | 52 | 104.0 |
| SGRD4 | 229 | CD | 8 | 175 | 210 | 180 | 102.9 |
| Total | | | | 565 | 758 | 581 | 102.83% |

VA5-5/FLR 2 EAST

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 207 | CD | 6 | 110 | 95 | 120 | 109.1 |
| SGRD2 | 207 | CD | 6 | 110 | 98 | 117 | 106.4 |
| SGRD3 | 207 | CD | 6 | 110 | 102 | 111 | 100.9 |
| SGRD4 | 207 | CD | 6 | 110 | 85 | 115 | 104.5 |
| SGRD4 | 207 | CD | 6 | 110 | 88 | 114 | 103.6 |
| SGRD5 | 207 | CD | 6 | 110 | 96 | 105 | 95.5 |
| SGRD6 | 207 | CD | 6 | 110 | 72 | 110 | 100.0 |
| SGRD7 | 207 | CD | 6 | 110 | 96 | 105 | 95.5 |
| SGRD9 | 207 | CD | 6 | 110 | 82 | 101 | 91.8 |
| SGRD10 | 207 | CD | 6 | 110 | 85 | 106 | 96.4 |
| Total | | | | 1100 | 899 | 1104 | 100.36% |

VA5-6/210

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 210 | LD | 8 | 200 | | 216 | 108.0 |
| SGRD2 | 212 | CD | 6 | 50 | | 52 | 104.0 |
| SGRD3 | 216 | CD | 7 | 150 | | 155 | 103.3 |
| SGRD4 | 213 | CD | 6 | 50 | | 48 | 96.0 |
| SGRD4 | 210 | LD | 8 | 200 | | 206 | 103.0 |
| SGRD5 | 210 | LD | 8 | 200 | | 210 | 105.0 |
| Total | | | | 850 | 0 | 887 | 104.35% |

VA5-7/206

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 206 | LD | 10 | 275 | | 281 | 102.2 |
| SGRD2 | 206 | LD | 10 | 275 | | 262 | 95.3 |
| Total | | | | 550 | 0 | 543 | 98.73% |

VA5-8/208

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 208 | LD | 6 | 100 | 165 | 108 | 108.0 |
| SGRD2 | 208 | LD | 8 | 260 | 277 | 256 | 98.5 |
| SGRD3 | 208 | LD | 7 | 150 | 148 | 160 | 106.7 |
| Total | | | | 510 | 590 | 524 | 102.75% |

VA5-9/218

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 218 | CD | 7 | 170 | 195 | 175 | 102.9 |
| SGRD2 | 218 | CD | 7 | 170 | 202 | 185 | 108.8 |
| SGRD3 | 217 | LD | 7 | 160 | 186 | 166 | 103.8 |
| Total | | | | 500 | 583 | 526 | 105.2% |

| Asset | Notes | Date | Written By |
|-------|--|------------|------------|
| VA5-2 | Missing diffuser in storage 224 as of 4/2/25 | 04/02/2025 | Nick Payne |

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: AHU-DUAL FAN



Asset: RTU-1

AREA:FLR 2 OFFICES

| UNIT DATA - SUPPLY | | |
|----------------------------|--------|---------------|
| | Design | Actual |
| Manufacturer | NA | DAIKIN |
| Model Number | NA | DPS012AHMG2DV |
| Serial Number | - | SLPU231103978 |
| No. Pre-Filters / Size (1) | - | 6 / 18X24X2 |
| No. Pre-Filters / Size (2) | - | 6 / 18X24X4 |

| MOTOR DATA - SUPPLY | |
|---------------------|-----------|
| | Actual |
| Motor MFG / Frame | NA / NA |
| Horsepower / RPM | 8.0 / NA |
| Rated Volts / Phase | 208 / 3 |
| Rated Amperage / SF | 14.6 / NA |

| TEST DATA - SUPPLY | | |
|--------------------|--------|-------------|
| | Design | Actual |
| Total CFM | 4610 | 4600 |
| OA CFM | 550 | 565 |
| VFD Speed | - | 80% |
| RL Voltage | 208 | 209/207/210 |
| RL Amperage | 14.6 | 7.1/7.2/7.2 |
| Motor B.H.P. | 3.23 | 3.9 |

| PERFORMANCE DATA - SUPPLY | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Static Pressure Stpt | - | 0.6" |
| Suction S.P. | - | -1.47" |
| Discharge S.P. | - | 1.27" |
| Total S.P. | 2.89 | 2.74" |
| Total ESP | 1.00 | 2.02" |

Completed By: Gabe Merk on 04/11/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU-DUAL FAN



VAV - Single Duct

RTU-1/FLR 2 OFFICES

| 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) |
| VR1-1 | TITUS | DESV | REHEAT | 10 | 850 | 833 | 355 | 364 | 460 | 452 | 1355 |
| VR1-2 | TITUS | DESV | REHEAT | 6 | 340 | 328 | 135 | 138 | 170 | 174 | 467 |

VAV-Fan Powered Box

RTU-1/FLR 2 OFFICES

| Asset | | | | | | | | | | | | |
|------------|-------|-----------|---------|-------|------------|---------------------|--------------|---------------------|--------------|-----------------------|----------------|----------|
| Asset Name | MFG | Model Num | Service | Type | Inlet Size | Design Max Cool CFM | Max Cool CFM | Design Min Cool CFM | Min Cool CFM | Design Fan CFM (Heat) | Fan CFM (Heat) | Ak (max) |
| VR1-3 | TITUS | DTFS-F | OFFICE | FPVAV | 8 | 600 | 636 | 250 | 256 | 250 | 241 | 789 |
| VR1-4 | TITUS | DTFS-F | COOR | FPVAV | 16 | 1980 | 1893 | 770 | 777 | 770 | 781 | 3396 |
| VR1-5 | TITUS | DTFS-F | COOR | FPVAV | 10 | 860 | 870 | 340 | 348 | 340 | 342 | 1090 |

Diffuser Supply (GRD)

VR1-1/228

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 230 | CD | 7 | 90 | 115 | 92 | 102.2 |
| SGRD2 | 231 | CD | 7 | 110 | 90 | 104 | 94.5 |
| SGRD3 | 232 | CD | 7 | 110 | 15 | 112 | 101.8 |
| SGRD4 | 201 | CD | 7 | 160 | 174 | 156 | 97.5 |
| SGRD5 | 235 | CD | 7 | 110 | 11 | 102 | 92.7 |
| SGRD6 | 201 | CD | 7 | 160 | 226 | 159 | 99.4 |
| SGRD7 | 233 | CD | 7 | 110 | 235 | 108 | 98.2 |
| Total | | | | 850 | 866 | 833 | 98% |

VR1-2/227

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 227 | CD | 6 | 110 | 135 | 115 | 104.5 |
| SGRD2 | 226 | CD | 6 | 110 | 167 | 105 | 95.5 |
| SGRD3 | 223 | CD | 7 | 120 | 215 | 108 | 90.0 |
| Total | | | | 340 | 517 | 328 | 96.47% |

VR1-3/222

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 222 | LD | 7 | 150 | 33 | 164 | 109.3 |
| SGRD2 | 222 | LD | 7 | 150 | 38 | 159 | 106.0 |
| SGRD3 | 222 | LD | 7 | 150 | 52 | 155 | 103.3 |
| SGRD4 | 222 | LD | 7 | 150 | 65 | 158 | 105.3 |
| Total | | | | 600 | 188 | 636 | 106% |

VR1-4/228

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 228 | LD | 10 | 215 | 185 | 202 | 94.0 |
| SGRD2 | 228 | LD | 10 | 215 | 148 | 207 | 96.3 |
| SGRD3 | 228 | LD | 10 | 215 | 152 | 217 | 100.9 |
| SGRD4 | 228 | LD | 10 | 215 | 165 | 215 | 100.0 |
| SGRD4 | 228 | LD | 10 | 215 | 174 | 202 | 94.0 |
| SGRD5 | 228 | LD | 10 | 215 | 125 | 215 | 100.0 |
| SGRD6 | 228 | LD | 10 | 230 | 148 | 211 | 91.7 |
| SGRD7 | 228 | LD | 10 | 230 | 162 | 208 | 90.4 |
| SGRD9 | 228 | LD | 10 | 230 | 184 | 216 | 93.9 |
| Total | | | | 1980 | 1443 | 1893 | 95.61% |

VR1-5/227

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 228 | LD | 10 | 215 | 189 | 222 | 103.3 |
| SGRD2 | 228 | LD | 10 | 215 | 155 | 228 | 106.0 |
| SGRD3 | 228 | LD | 10 | 215 | 162 | 208 | 96.7 |
| SGRD4 | 228 | LD | 10 | 215 | 183 | 212 | 98.6 |
| Total | | | | 860 | 689 | 870 | 101.16% |

Completed By: Gabe Merk on 04/11/2025

National TAB

Project: Greene County Library (Xenia, OH)
System/Unit: AHU-DUAL FAN



Asset: RTU-2

AREA:FLR 2 BOARD,CONF,IT,WORK ROOMS

| UNIT DATA - SUPPLY | | |
|----------------------------|--------|---------------|
| | Design | Actual |
| Manufacturer | NA | DAIKIN |
| Model Number | NA | DPS012AHMG2DV |
| Serial Number | - | SLPU231103956 |
| No. Pre-Filters / Size (1) | - | 6 / 18X24X2 |
| No. Pre-Filters / Size (2) | - | 6 / 18/24/4 |

| MOTOR DATA - SUPPLY | |
|---------------------|-----------|
| | Actual |
| Motor MFG / Frame | NA / NA |
| Horsepower / RPM | 8.0 / NA |
| Rated Volts / Phase | 208 / 3 |
| Rated Amperage / SF | 14.6 / NA |

| TEST DATA - SUPPLY | | |
|--------------------|--------|-------------|
| | Design | Actual |
| Total CFM | 4450 | 4300 |
| OA CFM | 480 | 513 |
| VFD Speed | - | 80% |
| RL Voltage | 208 | 210/207/209 |
| RL Amperage | 14.6 | 7.8/7.7/7.6 |
| Motor B.H.P. | 3.07 | 4.3 |

| PERFORMANCE DATA - SUPPLY | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Static Pressure Stpt | - | 1.4" |
| Suction S.P. | - | -0.92" |
| Discharge S.P. | - | 1.91" |
| Total S.P. | 2.85 | 2.83" |
| Total ESP | 1.00 | 1.24" |

Completed By: Gabe Merk on 04/11/2025

National TAB

Project:Greene County Library (Xenia, OH)

AHU-DUAL FAN



VAV - Single Duct

RTU-2/FLR 2 BOARD,CONF,IT,WORK ROOMS

| 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) |
| VR2-2 | TITUS | DESV | REHEAT | 6 | 385 | 381 | 90 | 90 | 200 | 211 | 681 |
| VR2-5 | TITUS | DESV | REHEAT | 8 | 630 | 611 | 170 | 177 | 315 | 322 | 944 |

VAV-Fan Powered Box

RTU-2/FLR 2 BOARD,CONF,IT,WORK ROOMS

| Asset | | | | | | | | | | | | |
|------------|-------|-----------|-------------|-------|------------|---------------------|--------------|---------------------|--------------|-----------------------|----------------|----------|
| Asset Name | MFG | Model Num | Service | Type | Inlet Size | Design Max Cool CFM | Max Cool CFM | Design Min Cool CFM | Min Cool CFM | Design Fan CFM (Heat) | Fan CFM (Heat) | Ak (max) |
| VR2-1 | TITUS | DTFS-F | OPEN OFFICE | FPVAV | 10 | 1070 | 1106 | 300 | 315 | 300 | 311 | 1198 |
| VR2-3 | TITUS | DTFS-F | CONF | FPVAV | 12 | 1390 | 1395 | 360 | 365 | 360 | 365 | 1532 |
| VR2-4 | TITUS | DTFS-F | CONF | FPVAV | 10 | 1045 | 1058 | 280 | 280 | 280 | 280 | 889 |

Diffuser Supply (GRD)

VR2-1/204

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | | CD | 6 | 115 | 156 | 122 | 106.1 |
| SGRD2 | | CD | 6 | 115 | 0 | 113 | 98.3 |
| SGRD3 | 204 | CD | 7 | 160 | 198 | 174 | 108.8 |
| SGRD4 | 204 | LD | 7 | 170 | 244 | 172 | 101.2 |
| SGRD4 | 203 | LD | 7 | 170 | 228 | 177 | 104.1 |
| SGRD5 | 203 | LD | 7 | 170 | 236 | 180 | 105.9 |
| SGRD6 | 204 | LD | 7 | 170 | 248 | 168 | 98.8 |
| Total | | | | 1070 | 1310 | 1106 | 103.36% |

VR2-2/RESTROOMS

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 201 | CD | 6 | 100 | 107 | 97 | 97.0 |
| SGRD2 | 201 | CD | 6 | 145 | 116 | 139 | 95.9 |
| SGRD3 | 241 | LD | 6 | 70 | 83 | 76 | 108.6 |
| SGRD4 | 240 | LD | 6 | 70 | 71 | 69 | 98.6 |
| Total | | | | 385 | 377 | 381 | 98.96% |

VR2-3/237

| Asset | | | | | | | |
|------------|----------|------|------|------------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 238 | LD | 8 | 190 | 197 | 187 | 98.4 |
| SGRD2 | 237 | CD | 8 | 200 | 216 | 205 | 102.5 |
| SGRD3 | 237 | LD | 10 | 220 | 225 | 227 | 103.2 |
| SGRD4 | 237 | LD | 10 | 220 | 262 | 226 | 102.7 |
| SGRD4 | 237 | LD | 10 | 280 | 251 | 259 | 92.5 |
| SGRD5 | 237 | LD | 10 | 280 | 255 | 291 | 103.9 |
| Total | | | | 1390 | 1406 | 1395 | 100.36% |

VR2-4/239

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 239 | CD | 6 | 115 | 131 | 104 | 90.4 |
| SGRD2 | 239 | CD | 6 | 100 | 133 | 98 | 98.0 |
| SGRD3 | 239 | CD | 6 | 100 | 120 | 93 | 93.0 |
| SGRD4 | 239 | CD | 8 | 215 | 277 | 232 | 107.9 |
| SGRD4 | 239 | CD | 6 | 100 | 134 | 95 | 95.0 |
| SGRD5 | 239 | CD | 8 | 215 | 295 | 219 | 101.9 |
| SGRD6 | 239 | CD | 6 | 100 | 146 | 109 | 109.0 |
| SGRD7 | 239 | CD | 6 | 100 | 206 | 108 | 108.0 |
| Total | | | | 1045 | 1442 | 1058 | 101.24% |

VR2-5/FLR 2 OFFICES

| Asset | | | | | | | |
|-------------------|-----------------|-------------|-------------|-------------------|---------------|------------------|--------------------|
| Asset Name | Location | Type | Size | DESIGN CFM | CFM(1) | FINAL CFM | % to design |
| SGRD1 | 243 | LD | 12 | 630 | 710 | 611 | 97.0 |
| Total | | | | 630 | 710 | 611 | 96.98% |