

Report By:

National TAB
1329 E. KEMPER ROAD
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Report: Test

Function: Test, Adjust, & Balance

Date: 10/26/2023

PROJECT

**10-23-23 LIFE STORAGE #657 WESTLAKE
OH**

1099 Bradley Road

Westlake, OH 44145

Client

Hartland Mechanical Services

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: AHU/RTU



Asset: FUR1

AREA:

| Unit Data | | |
|------------------|-----------------|---------------|
| | Design | Actual |
| MFG | LENNOX | Armstrong air |
| Serial Num | - | 1522H26383 |
| Model Num | ML193UH090XE48C | EAC4x48C |
| Type | FURNACE | Furnance |
| Configuration | VERTICAL | Vertical |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 16x25x2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Rated Voltage | 120 | 115 |
| Rated Amperage | - | 8.4 |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 1525 | 1409 |
| SF RPM | 1200 | DD |
| RA CFM | 1350 | 1246 |
| OA CFM | 175 | 163 |
| RL Voltage | - | 115 |
| RL Amperage | - | 5.4 |
| SF Rotation | - | CCw |
| Min OA Damper Position | - | 3.5 Marked |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -0.08 |
| Fan Discharge SP | - | 0.032 |
| Total ESP | 0.40" | |
| Fan Total SP | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | Yes |
| Unit Filters Clean | - | Yes |
| Condensate Drain Installed | - | Yes |

National TAB

Project:10-23-23 LIFE STORAGE #657 WESTLAKE OH

AHU/RTU



Diffuser Supply (GRD)

FUR1/

| Asset | | | | | | | | | |
|------------|-------------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | 1ST FLR. SE/SW | S1 | 6" | 100 | | | | | - |
| SGRD2 | 1ST FLR. SE/SW | S1 | 8' | 75 | | | | | - |
| SGRD3 | 1ST FLR. SE/SW | S2 | 8 | 150 | | | | | - |
| SGRD4 | 1ST FLR. SE/SW | S1 | 12 | 100 | | | | | - |
| SGRD5 | 1ST FLR. SE/SW | S1 | 12 | 100 | | | | | - |
| SGRD6 | 1ST FLR. SE/SW | S1 | 12 | 100 | | | | | - |
| SGRD7 | 1ST FLR. SE/SW | S1 | 14 | 100 | | | | | - |
| SGRD8 | 1ST FLR. SE/SW | S1 | 14 | 100 | | | | | - |
| SGRD9 | 1ST FLR. SE/SW | S1 | 14 | 100 | | | | | - |
| SGRD10 | 1ST FLR. SE/SW | S1 | 14 | 100 | | | | | - |
| SGRD11 | 1ST FLR. SE/SW | S1 | 14 | 100 | | | | | - |
| SGRD12 | 1ST FLR. SE/SW | S1 | 10 | 100 | | | | | - |
| SGRD13 | 1ST FLR. SE/SW | S1 | 8 | 100 | | | | | - |
| SGRD14 | 1ST FLR. SE/SW | S1 | 8 | 100 | | | | | - |
| SGRD15 | 1ST FLR. SE/SW | S1 | 8 | 100 | | | | | - |
| Total | | | | 1525 | | 0 | 0 | 0 | 0% |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: AHU/RTU



Asset: FUR2

AREA:

| Unit Data | | |
|------------------|-----------------|---------------|
| | Design | Actual |
| MFG | LENNOX | Armstrong air |
| Serial Num | - | 1522H08232 |
| Model Num | ML193UH090XE48C | EAC4X48C |
| Type | FURNACE | FURNANCE |
| Configuration | VERTICAL | Vertical |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 16x25x2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Rated Voltage | 120 | 115 |
| Rated Amperage | - | 8.4 |

| Test Data | | |
|------------------------|--------|----------|
| | Design | Actual |
| SF CFM | 1550 | 1484 |
| SF RPM | 1200 | DD |
| RA CFM | 1270 | 1208 |
| OA CFM | 280 | 276 |
| RL Voltage | - | 115 |
| RL Amperage | - | 5.1 |
| SF Rotation | - | CCW |
| Min OA Damper Position | - | 5 Marked |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -0.07 |
| Fan Discharge SP | - | 0.032 |
| Total ESP | 0.40" | |
| Fan Total SP | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | Yes |
| Unit Filters Clean | - | Yes |
| Condensate Drain Installed | - | Yes |

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Project:10-23-23 LIFE STORAGE #657 WESTLAKE OH

AHU/RTU



Diffuser Supply (GRD)

FUR2/

| Asset | | | | | | | | | |
|------------|-------------|------|-------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD2 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD3 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD4 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD5 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD6 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD7 | 1ST FLR. NW | S2 | 8"X6" | 125 | | | | | - |
| SGRD8 | 1ST FLR. NW | S1 | 6" | 75 | | | | | - |
| SGRD9 | 1ST FLR. NW | S1 | 16" | 75 | | | | | - |
| SGRD10 | 1ST FLR. NW | S1 | 6 | 75 | | | | | - |
| SGRD11 | 1ST FLR. NW | S1 | 10 | 75 | | | | | - |
| SGRD12 | 1ST FLR. NW | S1 | 10 | 125 | | | | | - |
| SGRD13 | 1ST FLR. NW | S1 | 10 | 125 | | | | | - |
| SGRD14 | 1ST FLR. NW | S1 | 12 | 75 | | | | | - |
| SGRD15 | 1ST FLR. NW | S1 | 6 | 75 | | | | | - |
| SGRD16 | 1ST FLR. NW | S1 | 10 | 75 | | | | | - |
| SGRD17 | 1ST FLR. NW | S2 | 10 | 125 | | | | | - |
| SGRD18 | 1ST FLR. NW | S2 | 10 | 125 | | | | | - |
| Total | | | | 1600 | | 0 | 0 | 0 | 0% |

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Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: AHU/RTU



Asset: FUR3

AREA:

| Unit Data | | |
|------------------|-----------------|---------------|
| | Design | Actual |
| MFG | LENNOX | Armstrong air |
| Serial Num | - | 1522H26387 |
| Model Num | ML193UH090XE48C | EaC4X48C |
| Type | FURNACE | FURNANCE |
| Configuration | VERTICAL | Vertical |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 16x25x2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Rated Voltage | 120 | 115 |
| Rated Amperage | - | 8.4 |

| Test Data | | |
|------------------------|--------|----------|
| | Design | Actual |
| SF CFM | 1550 | 1455 |
| SF RPM | 1200 | DD |
| RA CFM | 1360 | 1261 |
| OA CFM | 190 | 194 |
| RL Voltage | - | 115 |
| RL Amperage | - | 5.6 |
| SF Rotation | - | CCW |
| Min OA Damper Position | - | 4 Marked |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -0.07 |
| Fan Discharge SP | - | 0.035 |
| Total ESP | 0.4" | |
| Fan Total SP | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | Yes |
| Unit Filters Clean | - | Yes |
| Condensate Drain Installed | - | Yes |

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Project:10-23-23 LIFE STORAGE #657 WESTLAKE OH

AHU/RTU



Diffuser Supply (GRD)

FUR3/

| Asset | | | | | | | | | |
|------------|-------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | 1ST FLR. NE | S2 | NA | 150 | | | | | - |
| SGRD2 | 1ST FLR. NE | S2 | NA | 175 | | | | | - |
| SGRD3 | 1ST FLR. NE | S1 | NA | 100 | | | | | - |
| SGRD4 | 1ST FLR. NE | S1 | NA | 75 | | | | | - |
| SGRD5 | 1ST FLR. NE | S1 | NA | 100 | | | | | - |
| SGRD6 | 1ST FLR. NE | S1 | NA | 75 | | | | | - |
| SGRD7 | 1ST FLR. NE | S1 | NA | 100 | | | | | - |
| SGRD8 | 1ST FLR. NE | S1 | NA | 100 | | | | | - |
| SGRD9 | 1ST FLR. NE | S1 | 9" | 125 | | | | | - |
| SGRD10 | 1ST FLR. NE | S1 | 9" | 125 | | | | | - |
| SGRD11 | 1ST FLR. NE | S1 | 6" | 75 | | | | | - |
| SGRD12 | 1ST FLR. NE | S1 | 6" | 75 | | | | | - |
| SGRD13 | 1ST FLR. NE | S1 | 8" | 100 | | | | | - |
| SGRD14 | 1ST FLR. NE | S1 | 8" | 100 | | | | | - |
| Total | | | | 1475 | | 0 | 0 | 0 | 0% |

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Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: AHU/RTU



Asset: FUR4

AREA:

| Unit Data | | |
|------------------|-----------------|---------------|
| | Design | Actual |
| MFG | LENNOX | Armstrong air |
| Serial Num | - | 1522C51314 |
| Model Num | ML193UH090XE48C | EAC4x48C |
| Type | FURNACE | FURNANCE |
| Configuration | VERTICAL | Vertical |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 16x25x2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Rated Voltage | 120 | 115 |
| Rated Amperage | - | 8.4 |

| Test Data | | |
|------------------------|--------|------------------|
| | Design | Actual |
| SF CFM | 1550 | 1399 |
| SF RPM | 1200 | 1050 |
| RA CFM | 1375 | 1216 |
| OA CFM | 175 | 183 |
| RL Voltage | - | 115 |
| RL Amperage | - | 4.6 |
| SF Rotation | - | Counterclockwise |
| Min OA Damper Position | - | Marked |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -.09 |
| Fan Discharge SP | - | 0.14 |
| Total ESP | 0.40" | |
| Fan Total SP | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | Yes |
| Unit Filters Clean | - | Yes |
| Condensate Drain Installed | - | Yes |

Notes:

Diffuser 4-14 is at 71% .unable to push more air without compromising unit total .

Written By: Mohammed Ouard on 10/24/2023

National TAB

Project:10-23-23 LIFE STORAGE #657 WESTLAKE OH

AHU/RTU



Diffuser Supply (GRD)

FUR4/

| Asset | | | | | | | | | |
|------------|-------------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | 2ND FLR. SE/SW | S1 | | 100 | | 101 | 95 | 95 | 95.0 |
| SGRD2 | 2ND FLR. SE/SW | S1 | | 75 | | 68 | 70 | 70 | 93.3 |
| SGRD3 | 2ND FLR. SE/SW | S1 | | 100 | | 90 | 90 | 90 | 90.0 |
| SGRD4 | 2ND FLR. SE/SW | S1 | | 100 | | 91 | 91 | 91 | 91.0 |
| SGRD5 | 2ND FLR. SE/SW | S1 | | 100 | | 126 | 92 | 92 | 92.0 |
| SGRD6 | 2ND FLR. SE/SW | S1 | | 100 | | 40 | 92 | 92 | 92.0 |
| SGRD7 | 2ND FLR. SE/SW | S1 | | 100 | | 146 | 92 | 92 | 92.0 |
| SGRD8 | 2ND FLR. SE/SW | S1 | | 100 | | 134 | 91 | 91 | 91.0 |
| SGRD9 | 2ND FLR. SE/SW | S1 | | 100 | | 104 | 92 | 92 | 92.0 |
| SGRD10 | 2ND FLR. SE/SW | S1 | | 100 | | 90 | 90 | 90 | 90.0 |
| SGRD11 | 2ND FLR. SE/SW | S1 | | 100 | | 75 | 91 | 91 | 91.0 |
| SGRD12 | 2ND FLR. SE/SW | S1 | | 100 | | 76 | 90 | 90 | 90.0 |
| SGRD13 | 2ND FLR. SE/SW | S1 | | 75 | | 69 | 68 | 68 | 90.7 |
| SGRD14 | 2ND FLR. SE/SW | S1 | | 100 | | 37 | 71 | 71 | 71.0 |
| SGRD15 | 2ND FLR. SE/SW | S1 | | 100 | | 68 | 91 | 91 | 91.0 |
| SGRD16 | 2ND FLR. SE/SW | S1 | | 100 | | 92 | 92 | 92 | 92.0 |
| Total | | | | 1550 | | 1407 | 1398 | 1398 | 90.19% |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: AHU/RTU



Asset: FUR5

AREA:

| Unit Data | | |
|------------------|-----------------|---------------|
| | Design | Actual |
| MFG | LENNOX | Armstrong air |
| Serial Num | - | 1522C51316 |
| Model Num | ML193UH090XE48C | EAC4x48c |
| Type | FURNACE | Furnance |
| Configuration | VERTICAL | Vertica |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 26x25x2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Rated Voltage | 120 | 115 |
| Rated Amperage | - | 8.4 |

| Test Data | | |
|------------------------|--------|----------|
| | Design | Actual |
| SF CFM | 1550 | |
| SF RPM | 1200 | |
| RA CFM | 1270 | |
| OA CFM | 280 | 279 |
| RL Voltage | - | 115 |
| RL Amperage | - | 5.2 |
| SF Rotation | - | CCW |
| Min OA Damper Position | - | 4 Marked |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -.07 |
| Fan Discharge SP | - | .035 |
| Total ESP | 0.4" | |
| Fan Total SP | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | Yes |
| Unit Filters Clean | - | Yes |
| Condensate Drain Installed | - | Yes |

National TAB

Project:10-23-23 LIFE STORAGE #657 WESTLAKE OH

AHU/RTU



Diffuser Supply (GRD)

FUR5/

| Asset | | | | | | | | | |
|------------|------------------------------|------|------|------------|-----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | 2ND FLR. NW | S1 | | 75 | 242 | | | | - |
| SGRD2 | 2ND FLR. NW | S1 | | 125 | 220 | | | | - |
| SGRD3 | 2ND FLR. NW | S1 | | 100 | 179 | | | | - |
| SGRD4 | 2ND FLR. NW | S1 | | 75 | 196 | | | | - |
| SGRD5 | 2ND FLR. NW | S1 | | 100 | 126 | | | | - |
| SGRD6 | 2ND FLR. NW | S2 | | 125 | 297 | | | | - |
| SGRD7 | 2ND FLR. NW | S1 | | 75 | 247 | | | | - |
| SGRD8 | 2ND FLR. NW | S1 | | 75 | 373 | | | | - |
| SGRD9 | 2ND FLR. NW | S1 | | 75 | 501 | | | | - |
| SGRD10 | 2ND FLR. NW | S1 | | 75 | 582 | | | | - |
| SGRD11 | 2ND FLR. NW | S2 | | 125 | 154 | | | | - |
| SGRD12 | 2ND FLR. NW | S2 | | 125 | 193 | | | | - |
| SGRD13 | 2ND FLR. NW | S1 | | 75 | 222 | | | | - |
| SGRD14 | 2ND FLR. NW2ND FLR. NW | S1 | | 75 | 1 | | | | - |
| SGRD15 | 2ND FLR. NW | S1 | | 75 | 233 | | | | - |
| SGRD16 | 2ND FLR. NW | S2 | | 125 | | | | | - |
| SGRD17 | 2ND FLR. NW | S2 | | 125 | | | | | - |
| Total | | | | 1625 | | 0 | 0 | 0 | 0% |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: AHU/RTU



Asset: FUR6

AREA:

| Unit Data | | |
|------------------|-----------------|---------------|
| | Design | Actual |
| MFG | LENNOX | Armstrong air |
| Serial Num | - | 1522c51317 |
| Model Num | ML193UH090XE48C | EAC4x48C |
| Type | FURNACE | FURNANCE |
| Configuration | VERTICAL | VERTICAL |
| Num OA Filters 1 | - | 1 |
| OA Filter Size 1 | - | 16x25x2 |

| Motor Data | | |
|----------------|--------|--------|
| | Design | Actual |
| Motor MFG | - | NL |
| Frame | - | NL |
| Horsepower | 3/4 | 3/4 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Rated Voltage | 120 | 115 |
| Rated Amperage | - | 8.4 |

| Test Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| SF CFM | 1550 | 1568 |
| SF RPM | 1200 | 1050 |
| RA CFM | 1360 | 1370 |
| OA CFM | 190 | 198 |
| RL Voltage | - | 115 |
| RL Amperage | - | 5.2 |
| SF Rotation | - | CCW |
| Min OA Damper Position | - | 4.5 Marked |

| Performance Data | | |
|------------------|--------|--------|
| | Design | Actual |
| Fan Suction SP | - | -.08 |
| Fan Discharge SP | - | .035 |
| Total ESP | 0.40" | |
| Fan Total SP | - | |

| General | | |
|----------------------------|--------|--------|
| | Design | Actual |
| Fan Rotation Correct | - | Yes |
| Unit Filters Clean | - | Yes |
| Condensate Drain Installed | - | Yes |

Notes:

Unable to balance to 10% of design .Missing dampers on Grilles # 9,10 and 13.

Written By: Mohammed Ouard on 10/25/2023

National TAB

Project:10-23-23 LIFE STORAGE #657 WESTLAKE OH

AHU/RTU



Diffuser Supply (GRD)

FUR6/

| Asset | | | | | | | | | |
|------------|-------------|------|------|------------|----|--------|--------|-----------|-------------|
| Asset Name | Location | Type | Size | DESIGN CFM | AK | CFM(1) | CFM(2) | FINAL CFM | % to design |
| SGRD1 | 2ND FLR. NE | S1 | NA | 125 | | 97 | 97 | 97 | 77.6 |
| SGRD2 | 2ND FLR. NE | S1 | NA | 100 | | 88 | 88 | 92 | 92.0 |
| SGRD3 | 2ND FLR. NE | S1 | NA | 125 | | 72 | 72 | 88 | 70.4 |
| SGRD4 | 2ND FLR. NE | S1 | NA | 100 | | 78 | 78 | 78 | 78.0 |
| SGRD5 | 2ND FLR. NE | S1 | NA | 75 | | 50 | 50 | 65 | 86.7 |
| SGRD6 | 2ND FLR. NE | S1 | NA | 125 | | 118 | 118 | 118 | 94.4 |
| SGRD7 | 2ND FLR. NE | S1 | NA | 125 | | 98 | 98 | 98 | 78.4 |
| SGRD8 | 2ND FLR. NE | S1 | NA | 100 | | 149 | 149 | 95 | 95.0 |
| SGRD9 | 2ND FLR. NE | S1 | NA | 150 | | 200 | 200 | 200 | 133.3 |
| SGRD10 | 2ND FLR. NE | S2 | NA | 100 | | 233 | 233 | 233 | 233.0 |
| SGRD11 | 2ND FLR. NE | S1 | NA | 75 | | 61 | 61 | 68 | 90.7 |
| SGRD12 | 2ND FLR. NE | S1 | NA | 75 | | 77 | 77 | 77 | 102.7 |
| SGRD13 | 2ND FLR. NE | S1 | NA | 75 | | 89 | 89 | 89 | 118.7 |
| SGRD14 | 2ND FLR. NE | S1 | NA | 100 | | 71 | 71 | 79 | 79.0 |
| SGRD15 | 2ND FLR. NE | S1 | NA | 100 | | 89 | 89 | 91 | 91.0 |
| Total | | | | 1550 | | 1570 | 1570 | 1568 | 101.16% |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: Energy Recovery Unit



Asset: HRV1

AREA:

| Unit Data | | |
|-------------------|-----------------|-----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | MINICORE5-VG-FM | MINICORE5-VG-FM |
| Serial Num | - | 20167141 |
| Service | ERV | ERV |
| Type | VERTICAL | VERTICAL |
| Num Exh-Filters 1 | - | 1 |
| Exh-Filter Size 1 | - | 15x20x2 |
| Num OA-Filters 1 | - | 1 |
| OA-Supply Size 1 | - | 15x20x2 |

| Exhaust Fan Motor Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Motor Data | | |
|-------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| Exhaust Fan Test Data | | |
|-----------------------|--------|----------|
| | Design | Actual |
| Exh-ERU CFM | 175 | 167 |
| Exh-ERU Rotation | - | CCW |
| Exh-ERU System SetPt | - | 4 Marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.8 |

| OA Fan Test Data | | |
|---------------------|--------|------------|
| | Design | Actual |
| OA-ERU CFM | 175 | 163 |
| OA-ERU RPM | - | |
| OA-ERU Rotation | - | |
| Motor RPM | - | |
| Motor Frequency | - | |
| OA-ERU System SetPt | - | 3.5 Marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.8 |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: Energy Recovery Unit



Asset: HRV2

AREA:

| Unit Data | | |
|-------------------|-----------------|-----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | MINICORE5-VG-FM | MINICORE5-VG-FM |
| Serial Num | - | 20167143 |
| Service | ERV | ERV |
| Type | - | Vertical |
| Num Exh-Filters 1 | - | 1 |
| Exh-Filter Size 1 | - | 15x2x2 |
| Num OA-Filters 1 | - | 1 |
| OA-Supply Size 1 | - | 15x20x2 |

| Exhaust Fan Motor Data | | |
|------------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | Var Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Motor Data | | |
|-------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| Exhaust Fan Test Data | | |
|-----------------------|--------|----------|
| | Design | Actual |
| Exh-ERU CFM | 280 | 275 |
| Exh-ERU Rotation | - | Ccw |
| Exh-ERU System SetPt | - | 5 Marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.7 |

| OA Fan Test Data | | |
|---------------------|--------|--------|
| | Design | Actual |
| OA-ERU CFM | 280 | 276 |
| OA-ERU RPM | - | |
| OA-ERU Rotation | - | |
| Motor RPM | - | |
| Motor Frequency | - | |
| OA-ERU System SetPt | - | |
| RL Voltage | - | |
| RL Amperage | - | |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: Energy Recovery Unit



Asset: HRV3

AREA:

| Unit Data | | |
|-------------------|-----------------|-----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | MINICORE5-VG-FM | MINICORE5-VG-FM |
| Serial Num | - | 20167145 |
| Service | - | ERV |
| Type | - | Vertical |
| Num Exh-Filters 1 | - | 1 |
| Exh-Filter Size 1 | - | 15x20x2 |
| Num OA-Filters 1 | - | 1 |
| OA-Supply Size 1 | - | 15x20x2 |

| Exhaust Fan Motor Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Motor Data | | |
|-------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Drive Data | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Belt Size | - | |
| Belt Tension (deflection) | - | |

| Exhaust Fan Test Data | | |
|-----------------------|--------|------------|
| | Design | Actual |
| Exh-ERU CFM | 190 | 193 |
| Exh-ERU RPM | - | DD |
| Exh-ERU Rotation | - | Ccw |
| Motor RPM | - | DD |
| Exh-ERU System SetPt | - | 4.5 Marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.8 |

| OA Fan Test Data | | |
|---------------------|--------|----------|
| | Design | Actual |
| OA-ERU CFM | 190 | 194 |
| OA-ERU RPM | - | |
| OA-ERU Rotation | - | |
| Motor RPM | - | |
| Motor Frequency | - | |
| OA-ERU System SetPt | - | 4 Marked |
| RL Voltage | - | 115 |
| RL Amperage | - | |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: Energy Recovery Unit



Asset: HRV4

AREA:

| Unit Data | | |
|-------------------|-----------------|-----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | MINICORE5-VG-FM | MINICORE5-VG-FM |
| Serial Num | - | 20167142 |
| Service | - | Vertical |
| Type | ERV | ERV |
| Num Exh-Filters 1 | - | 1 |
| Exh-Filter Size 1 | - | 15x20x2 |
| Num OA-Filters 1 | - | 1 |
| OA-Supply Size 1 | - | 15x20x2 |

| Exhaust Fan Test Data | | |
|-----------------------|--------|------------|
| | Design | Actual |
| Exh-ERU CFM | 175 | 151 |
| Exh-ERU Rotation | - | CCW |
| Exh-ERU System SetPt | - | 5.5 Marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.9 |

| OA Fan Test Data | | |
|---------------------|--------|----------------|
| | Design | Actual |
| OA-ERU CFM | 175 | 183 |
| OA-ERU Rotation | - | CW |
| OA-ERU System SetPt | - | 4 markedMarked |
| RL Voltage | - | 122 |
| RL Amperage | - | 2.9 |

| Exhaust Fan Motor Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| Exhaust Fan Drive Data | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Belt MFG | - | |
| Belt Size | - | |
| Belt Tension (deflection) | - | |

| OA Fan Motor Data | | |
|-------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Drive Data | | |
|---------------------------|--------|--------|
| | Design | Actual |
| Belt Size | - | |
| Belt Tension (deflection) | - | |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: Energy Recovery Unit



Asset: HRV5

AREA:

| Unit Data | | |
|-------------------|-----------------|-----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | MINICORE5-VG-FM | MINICORE5-VG-FM |
| Serial Num | - | 20167144 |
| Service | ERV | ERV |
| Type | - | Vertical |
| Num Exh-Filters 1 | - | 1 |
| Exh-Filter Size 1 | - | 15x20x2 |
| Num OA-Filters 1 | - | 1 |
| OA-Supply Size 1 | - | 15x20x2 |

| Exhaust Fan Motor Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Motor Data | | |
|-------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| Exhaust Fan Test Data | | |
|-----------------------|--------|----------|
| | Design | Actual |
| Exh-ERU CFM | 280 | 277 |
| Exh-ERU Rotation | - | CCW |
| Exh-ERU System SetPt | - | 6 marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.9 |

| OA Fan Test Data | | |
|---------------------|--------|----------|
| | Design | Actual |
| OA-ERU CFM | 280 | 279 |
| OA-ERU RPM | - | |
| OA-ERU Rotation | - | |
| Motor RPM | - | |
| Motor Frequency | - | |
| OA-ERU System SetPt | - | 4 Marked |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.9 |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: Energy Recovery Unit



Asset: HRV6

AREA:

| Unit Data | | |
|-------------------|-----------------|-----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | MINICORE5-VG-FM | MINICORE5-VG-FM |
| Serial Num | - | 20167146 |
| Service | - | NL |
| Type | - | Vertical |
| Num Exh-Filters 1 | - | 1 |
| Exh-Filter Size 1 | - | 15x20x2 |
| Num OA-Filters 1 | - | 1 |
| OA-Supply Size 1 | - | 15x20x2 |

| Exhaust Fan Motor Data | | |
|------------------------|--------|------------|
| | Design | Actual |
| Motor MFG | - | Vari Green |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| OA Fan Motor Data | | |
|-------------------|--------|-----------|
| | Design | Actual |
| Motor MFG | - | VariGreen |
| Frame | - | NL |
| Horsepower | - | 0.25 |
| Motor Rpm | - | 1750 |
| Phase | - | 1 |
| Voltage (rated) | - | 115 |
| Amperage (rated) | - | 2.85 |
| Service Factor | - | 1.25 |

| Exhaust Fan Test Data | | |
|-----------------------|--------|----------|
| | Design | Actual |
| Exh-ERU CFM | 190 | 192 |
| Exh-ERU Rotation | - | CCW |
| Exh-ERU System SetPt | - | 6 Marked |
| RL Voltage | - | 123.9 |
| RL Amperage | - | 3.4 |

| OA Fan Test Data | | |
|---------------------|--------|------------|
| | Design | Actual |
| OA-ERU CFM | 190 | 198 |
| OA-ERU RPM | - | |
| OA-ERU Rotation | - | |
| OA-ERU System SetPt | - | 4.5 Marked |
| RL Voltage | - | 123 |
| RL Amperage | - | 3.4 |

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: FAN - Exhaust



Asset: EF1

AREA:

| Unit Data | | |
|---------------|--------------|-----------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | SEI | AE80B-B |
| Serial Num | - | NL |
| Type | WALL MOUNTED | Ce |
| Configuration | VERTICAL | |

| Test Data | | |
|---------------|--------|--------|
| | Design | Actual |
| CFM | 8200 | |
| Fan RPM | 884 | |
| Fan Rotation | - | |
| Motor RPM | - | |
| RL Voltage | - | |
| RL Amperage | - | |
| Suction ESP | - | |
| Discharge ESP | - | |
| Total ESP | 0.30" | |

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

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

National TAB

Project: 10-23-23 LIFE STORAGE #657 WESTLAKE OH

System/Unit: FAN - Exhaust



Asset: EF2

AREA:

| Unit Data | | |
|---------------|-----------|----------------|
| | Design | Actual |
| MFG | GREENHECK | GREENHECK |
| Model Num | G-080-D | 6-095-D-1-17-x |
| Serial Num | - | 20163394 |
| Type | DOWNBLAST | Downblast |
| Configuration | VERTICAL | Vertical |

| Motor Data | | |
|------------------|--------|-------------------|
| | Design | Actual |
| Motor MFG | - | McMillan electric |
| Frame | - | NL |
| Horsepower | - | 0.125 |
| Motor Rpm | - | 1050 |
| Phase | 1 | 1 |
| Voltage (rated) | 120 | 115 |
| Amperage (rated) | - | 2.6 |
| Service Factor | - | NL |

| Test Data | | |
|--------------|--------|-----------|
| | Design | Actual |
| CFM | 75 | 82 |
| Fan RPM | 1550 | DD |
| Fan Rotation | - | Clockwise |
| Motor RPM | - | DD |
| RL Voltage | - | 121 |
| RL Amperage | - | 2.6 |

Notes:

EF2 is serving strictly the bathroom 75cfm.

Written By: Mohammed Ouard on 10/26/2023