



**SUBMITTAL DATA – FAN COIL**  
**LISH054160U332 - LIFHC054160U332**  
**SINGLE ZONE INVERTER MINI-SPLIT HEAT PUMP**

Job: \_\_\_\_\_  
Location: \_\_\_\_\_  
Schedule No.: \_\_\_\_\_  
System Designation: \_\_\_\_\_

Engineer: \_\_\_\_\_  
Architect: \_\_\_\_\_  
Date: \_\_\_\_\_

**FEATURES**

Outdoor Unit: **LISH054160U332**  
Outdoor Unit Cat Number: **37H86**

Indoor Unit: **LIFHC054160U332**  
Indoor Unit Cat Number: **37J06**



- DC Inverter Compressor
- DC ODU Motor
- DC Electronic Expansion Valve(EXV)



- Auto Restart
- Compact Design
- Wired Control Included
- Washable Filter Included
- Water Pump Included
- 9 Level Static pressure mode

**PIPING**

**Line Set and Elevation Guidelines**

|                                                                  |                  |
|------------------------------------------------------------------|------------------|
| Maximum Line Set Length ft. (m)                                  | 246.1 ft. (75 m) |
| Maximum Elevation - Outdoor Unit Below/Above Indoor Unit ft. (m) | 98.4 ft. (30 m)  |
| Liquid Line Set Diameter (in.)                                   | 3/8"             |
| Gas Line Set Diameter (in.)                                      | 5/8"             |

**PRODUCT WARRANTY**

5 Year Limited Warranty\*

**OPTIONAL ACCESORIES**

**NOTE** – Due to Lennox' ongoing commitment to quality, Specifications, Ratings, and Dimensions are subject to change without notice and without incurring liability. Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury. Installation and service must be performed by a qualified installer and servicing agency



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**OUTDOOR SPECIFICATIONS**

| PERFORMANCE              |        |
|--------------------------|--------|
| Cooling Capacity (Btu/h) | 54,500 |
| EER(W/W)                 | 2.91   |
| SEER(BTUH/W)             | 16     |
| Heating Capacity (Btu/h) | 61,400 |
| HSPF                     | 7.5    |

|                                     |                          |
|-------------------------------------|--------------------------|
| Outdoor Fan Total Air Volume (CFM)  | 3,060                    |
| Ambient Temperature Operating Range |                          |
| Cooling                             | 5°F(-15°C) - 118°F(48°C) |
| Heating                             | 5°F(-15°C) - 75°F(24°C)  |

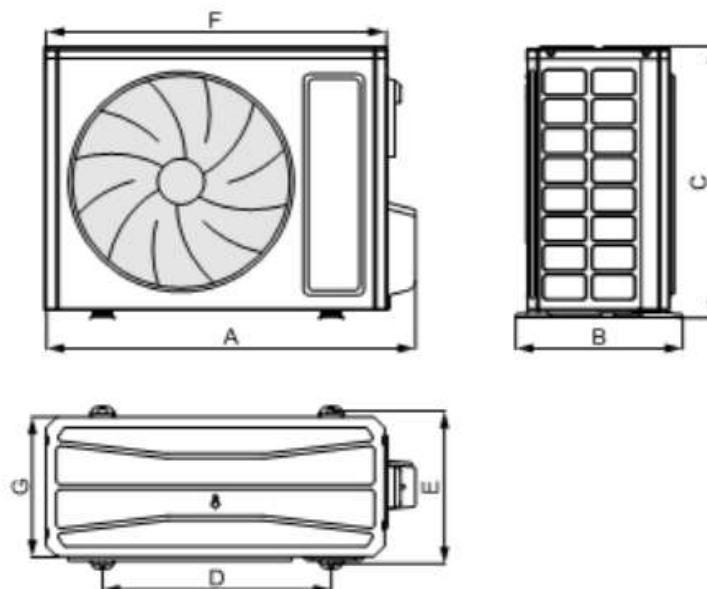
| ELECTRICAL DATA                    |                 |
|------------------------------------|-----------------|
| Power Supply (V/Hz/ϕ)              | 220-240-50/60-1 |
| Rated Current (A)                  | 29              |
| Minimum Circuit Ampacity (A)       | -               |
| Maximum Overcurrent Protection (A) | -               |
| Compressor RLA (A)                 | 4.9             |
| No. of Compressors                 | 1               |

| GENERAL DATA                       |                     |
|------------------------------------|---------------------|
| Connection Ratio (%)               | 100%                |
| Max. # of Indoor Units             | 1                   |
| Sound Data (dBA) - Cooling/Heating | 60                  |
| Refrigerant type                   | R32                 |
| Factory refrigerant charge         | 6.39 lbs. 102.3 oz. |

| DIMENSIONS           |        |       |
|----------------------|--------|-------|
| Unit Dimensions (in) | Height | 32.3  |
|                      | Width  | 37.0  |
|                      | Depth  | 14.6  |
| Shipping Weight (lb) |        | 176.4 |
| Net Weight (lb)      |        | 161.0 |

**NOTES**  
 1. Cooling and Heating Capacity data is rated at the following conditions:  
 Cooling: 80°FDB / 67°FWB Indoor, 95°FDB/ 75°FWB Outdoor  
 Heating: 68°FDB / 59°FWB Indoor, 45°FDB/ 43°FWB

**OUTDOOR DIMENSIONAL DRAWINGS - INCHES (MM)**



| ODU         | UNIT | A     | B     | C     | D     | E     | F     | G     |
|-------------|------|-------|-------|-------|-------|-------|-------|-------|
| 42K/48K/54K | mm   | 1020  | 427   | 820   | 635   | 396   | 940   | 370   |
|             | inch | 40.16 | 16.81 | 32.28 | 25.00 | 15.59 | 37.01 | 14.57 |

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## INDOOR SPECIFICATIONS

### PERFORMANCE

|                               |        |      |
|-------------------------------|--------|------|
| Airflow (CFM)                 | Turbo  | 1648 |
|                               | High   | 1471 |
|                               | Medium | 1295 |
|                               | Low    | 1059 |
| External Static Pressure (Pa) |        | 50   |
| Sound Pressure (dBA)          | Turbo  | 47   |
|                               | High   | 44   |
|                               | Medium | 43   |
|                               | Low    | 40   |

### ELECTRICAL DATA

|                       |                 |
|-----------------------|-----------------|
| Power Supply (V/Hz/φ) | 220-240-50/60-1 |
| Full load amps (FLA)  | -               |
| Power Output (W)      | -               |

### DIMENSIONS

|                               |        |             |
|-------------------------------|--------|-------------|
| Unit Dimensions (in)          | Height | 11.8        |
|                               | Width  | 55.1        |
|                               | Depth  | 27.6        |
| Unit Net/Shipping Weight (lb) |        | 116.9/132.3 |

## WIRELESS REMOTE CONTROLLER SPECIFICATIONS

### 37B67 (YAP1F7)

|              |                               |
|--------------|-------------------------------|
| Power Supply | 2 AAA Batteries<br>(Included) |
|--------------|-------------------------------|

|                |                         |
|----------------|-------------------------|
| Setpoint Range | 61°F(16°C) - 86°F(30°C) |
|----------------|-------------------------|

|                           |            |
|---------------------------|------------|
| Effective Receiving Range | 26 ft.(8m) |
|---------------------------|------------|

## DISPLAY

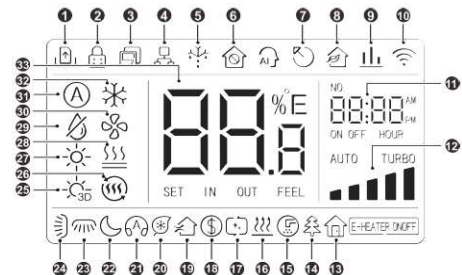


## WIRED CONTROLLER SPECIFICATIONS

### 37J42 LCACWIFI1-1332

|                           |                         |
|---------------------------|-------------------------|
| Power Supply              | DC 12V, Supplied by IDU |
| Setpoint Range            | 61°F(16°C) - 86°F(30°C) |
| Effective Receiving Range | 188 ft.(30m)            |

## DISPLAY



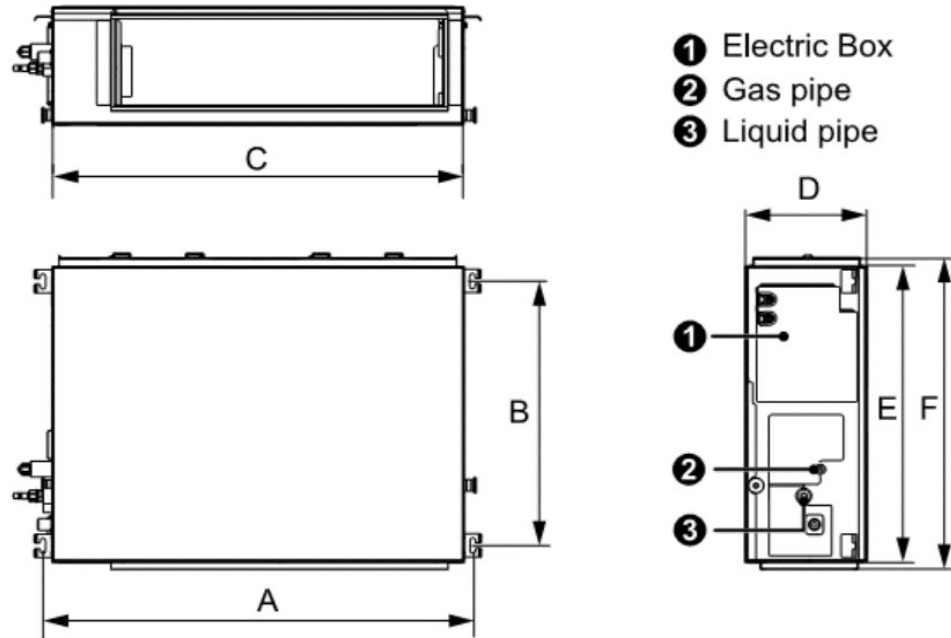
- Gate-control function.
- Child Lock status.
- Slave wired controller (address of wired controller is 02).
- One wired controller controls multiple indoor units.
- Outdoor unit defrosting status.
- Shielding status.
- Current wired controller connects master indoor unit.
- Fresh air control function of AHU-KIT.
- Indicates that the current system mode priority is voting mode.
- WiFi status (If the wired controller has no WiFi function, it displays only when the unit connected to WiFi).
- Timer zone: Display system clock and timer status.
- Current set fan speed.
- Absence function.
- Health function, Indoor unit optional function.
- Remind to clean the filter.
- X-fan function.
- Auto clean status.
- Save status of indoor unit.
- Air status, Indoor unit optional function.
- I-DEMAND function, Indoor unit optional function.
- Quiet status (including Quiet and Auto Quiet two status).
- Sleep status.
- Left and right swing function.
- Up and down swing function.
- 3D Heating mode.
- Space Heating mode.
- Heating mode.
- Floor Heating mode.
- Dry mode.
- Fan mode.
- Auto mode.
- Cooling mode.
- It shows the value of temperature, and displays the current type of value (in case the wired controller is controlling a Fresh Air Indoor Unit, then it will display FAP).

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**INDOOR DIMENSIONAL DRAWINGS - INCHES (MM)**



| IDU | UNIT | A     | B     | C     | D     | E     | F     |
|-----|------|-------|-------|-------|-------|-------|-------|
| 54K | mm   | 1440  | 500   | 1400  | 300   | 700   | 754   |
|     | inch | 56.69 | 19.69 | 55.12 | 11.81 | 27.56 | 29.68 |

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