

**Submittal Data: LIVS12HP115V1B** 12,000 BTU/H (115V) Wall Mounted Heat Pump System

Job Name Location Date

Purchaser Engineer

Submitted To For  Reference  Approval  Construction

Unit Designation Schedule No.

- GENERAL FEATURES**
- High Efficiency DC Inverter Technology
  - Compact and Quiet Design
  - Wireless Remote with LCD Display
  - Wi-Fi Ready ( Sold Separately Kit PN: WSBE02)
  - XK41 Wired Prog. Controller ( Sold Separately)
  - Low Ambient Cool to 0 deg F
  - Blue Fin Condenser Coil
  - 5 year Limited Parts Warranty



**System Ratings**

|                         |       |                    |
|-------------------------|-------|--------------------|
| <b>Cooling</b>          |       |                    |
| Rated Capacity          |       | 12,000 BTU/H       |
| Capacity Range          |       | 3,753-12,500 BTU/H |
| Power Input (Max)       |       | 1,193 W            |
| SEER                    |       | 16.0               |
| EER                     |       | 10.55              |
| <b>Heating at 47° F</b> |       |                    |
| Rated Capacity          |       | 13,000 BTU/H       |
| Capacity Range          |       | 3,412-15,013 BTU/H |
| Power Input (Max)       |       | 1,250 W            |
| HSPF                    |       | 9.0                |
| COP                     |       | 3.1                |
| <b>Heating at 17° F</b> |       |                    |
| Rated Capacity          |       | 7,600 BTU/H        |
| <b>Operating Range</b>  |       |                    |
| Cooling                 | (Max) | 115°F (46 C)       |
|                         | (Min) | 0°F (-18 C)        |
| Heating                 | (Max) | 75°F (24 C)        |
|                         | (Min) | -4°F (-20 C)       |

**Indoor Unit Data**

|                             |              |             |
|-----------------------------|--------------|-------------|
| <b>Fan Motor</b>            | Type         | Cross-Flow  |
|                             | Output Power | 20 W        |
|                             | FLA          | 0.3 A       |
| <b>Airflow</b>              |              |             |
| Cooling                     | Wet (Lo/Hi)  | 194/400 CFM |
| Heating                     | Dry (Lo/Hi)  | 194/400 CFM |
| <b>Sound Pressure Level</b> |              |             |
| Cooling                     | (Min/Max)    | 29/43 db(A) |
| Heating                     | (Min/Max)    | 29/43 db(A) |
| <b>Dehumidification</b>     |              | 2.96 pt/hr  |

**Refrigerant Piping Data**

|                                |           |
|--------------------------------|-----------|
| Gas Pipe Size (OD)             | 3/8-in    |
| Liquid Pipe Size (OD)          | 1/4-in    |
| Connection Method              | Flared    |
| Factory Charge                 | 31.8 oz   |
| Additional Charge              | 0.2 oz/ft |
| Pre-Charge Length              | 25-ft     |
| MAX Refrigerant Pipe Length    | 66-ft     |
| MIN Refrigerant Pipe Length    | 10-ft     |
| MAX Refrigerant Pipe Elevation | 33-ft     |

**Outdoor Unit Data**

|                         |                 |                           |
|-------------------------|-----------------|---------------------------|
| <b>Compressor</b>       | Type            | DC Inverter Driven Rotary |
|                         | RLA             | 15.2 A                    |
| <b>Refrigerant Type</b> |                 | R410A                     |
| <b>Fan Motor</b>        | Output Power    | 30 W                      |
|                         | FLA             | 0.23 A                    |
| <b>Sound Pressure</b>   | Cooling/Heating | 53/53 db(A)               |

**Electrical Data**

|                            |  |                       |
|----------------------------|--|-----------------------|
| <b>Power Supply</b>        |  |                       |
| Normal Operational Voltage |  | 115 V, 1 Phase, 60 Hz |
| Voltage Range              |  | 103 - 127 V           |
| MCA                        |  | 20.0 A                |
| MOCP/Breaker Size          |  | 30 A                  |
| Main Power Wire Size       |  | 10-2 AWG              |

| <b>SYSTEM FEATURES</b>             |                            |
|------------------------------------|----------------------------|
| Inverter Type                      | G10                        |
| Ultra Low Frequency Torque Control | Yes                        |
| Power Factor Correction            | Yes                        |
| Compressor Type                    | High Eff. Rotary           |
| Refrigerant Type                   | R410A                      |
| Basepan With Electric Heater       | YES                        |
| Compressor With Electric Heater    | YES                        |
| Outdoor Fin Coating                | Blue Fin                   |
| Intelligent Defrosting             | YES                        |
| Intelligent Preheating             | YES                        |
| Low Voltage Startup                | YES                        |
| Memory/Power Failure Recovery      | YES                        |
| Self Diagnosis                     | YES                        |
| Wired Controller Interface (XK-41) | YES                        |
| Wi-Fi Interface Capable            | Optional (see PN: WSBEC01) |
| Indoor Fan Type                    | Crossflow                  |
| Multi Fan Speeds                   | 4 Speeds                   |
| Indoor Unit Display                | YES                        |
| Advance Filter                     | Optional (see Filter Kits) |
| Auxiliary Electrical Heater        | NO                         |
| Ventilation (Outdoor Air)          | NO                         |

| <b>REMOTE CONTROLLER FUNCTIONS</b> |     |
|------------------------------------|-----|
| Auto Mode                          | YES |
| Auto Fan                           | YES |
| Auto Swing (Horizontal Auto Swing) | NO  |
| Auto Swing (Vertical Auto Swing)   | YES |
| Clock on Remote Controller         | YES |
| Dry Mode                           | YES |
| Dry Anti-Mildew (X-Fan) Mode       | NO  |
| Energy Saving Mode                 | YES |
| Dirty Filter Alert                 | NO  |
| I Feel Function                    | YES |
| Lock on Remote Controller          | YES |
| Quiet Mode                         | NO  |
| Room Temperature Display           | YES |
| Sleep Mode                         | YES |
| 4 Sleep Modes Options              | NO  |
| Timer Mode                         | YES |
| Turbo Mode                         | YES |
| Display On/Off Control             | YES |
| Freeze Guard Mode                  | YES |
| Display On/Off Control             | YES |
| Freeze Guard Mode                  | YES |

**COOLING PERFORMANCE (BtuH)\***

| Outdoor Ambient DB | Indoor Ambient Temperature |       |              |       |              |        |              |       |
|--------------------|----------------------------|-------|--------------|-------|--------------|--------|--------------|-------|
|                    | 68F DB (20C)               |       | 73F DB (23C) |       | 80F DB (27C) |        | 82F DB (28C) |       |
|                    | 57F WB (14C)               |       | 61F WB (16C) |       | 67F WB (19C) |        | 68F WB (20C) |       |
|                    | TC                         | SHC   | TC           | SHC   | TC           | SHC    | TC           | SHC   |
| 0°F                | 6,955                      | 5,800 | 7,295        | 6,070 | 9,265        | 7,395  | 8,030        | 6,590 |
| 5°F                | 7,087                      | 5,903 | 7,423        | 6,170 | 9,327        | 7,530  | 8,163        | 6,693 |
| 14°F               | 7,350                      | 6,110 | 7,680        | 6,370 | 9,450        | 7,800  | 8,430        | 6,900 |
| 23°F               | 7,900                      | 6,540 | 8,340        | 6,890 | 10,360       | 8,230  | 9,350        | 7,620 |
| 32°F               | 8,240                      | 6,800 | 8,700        | 7,170 | 10,540       | 8,510  | 9,780        | 7,960 |
| 41°F               | 8,580                      | 7,060 | 9,060        | 7,450 | 10,850       | 9,040  | 10,210       | 8,300 |
| 50°F               | 8,920                      | 7,320 | 9,420        | 7,730 | 10,900       | 9,260  | 10,640       | 8,640 |
| 59°F               | 9,240                      | 7,590 | 9,770        | 8,010 | 10,950       | 9,540  | 11,070       | 8,960 |
| 68°F               | 10,250                     | 8,390 | 10,790       | 8,810 | 11,010       | 9,610  | 11,840       | 9,570 |
| 77°F               | 10,150                     | 8,310 | 10,690       | 8,730 | 11,260       | 9,750  | 11,710       | 9,460 |
| 86°F               | 9,730                      | 7,980 | 10,270       | 8,400 | 11,560       | 10,010 | 11,440       | 9,250 |
| 95°F               | 9,290                      | 7,640 | 9,830        | 8,060 | 12,000       | 9,420  | 10,940       | 9,020 |
| 104°F              | 8,920                      | 7,340 | 9,460        | 7,760 | 11,860       | 9,390  | 10,760       | 8,720 |
| 113°F              | 8,550                      | 7,050 | 9,080        | 7,470 | 10,910       | 9,180  | 10,390       | 8,430 |
| 115°F              | 8,529                      | 7,033 | 9,050        | 7,447 | 10,842       | 9,154  | 10,357       | 8,403 |

**HEATING PERFORMANCE (BtuH)\***

| Outdoor Ambient DB | Indoor Ambient Temperature |        |              |        |              |        |              |        |
|--------------------|----------------------------|--------|--------------|--------|--------------|--------|--------------|--------|
|                    | 68F DB (20C)               |        | 73F DB (23C) |        | 80F DB (27C) |        | 86F DB (30C) |        |
|                    | 57F WB (14C)               |        | 61F WB (16C) |        | 67F WB (19C) |        | 72F WB (22C) |        |
|                    | TC                         | SHC    | TC           | SHC    | TC           | SHC    | TC           | SHC    |
| -4°F               | 7,090                      | 7,090  | 7,120        | 7,120  | 7,190        | 7,190  | 7,120        | 7,120  |
| 0°F                | 7,130                      | 7,130  | 7,280        | 7,280  | 7,260        | 7,260  | 7,210        | 7,210  |
| 6°F                | 7,160                      | 7,160  | 7,220        | 7,220  | 7,310        | 7,310  | 7,120        | 7,120  |
| 10°F               | 7,950                      | 7,950  | 8,130        | 8,130  | 8,240        | 8,240  | 8,090        | 8,090  |
| 16°F               | 8,560                      | 8,560  | 9,060        | 9,060  | 9,210        | 9,210  | 8,290        | 8,290  |
| 19°F               | 9,250                      | 9,250  | 9,580        | 9,580  | 9,350        | 9,350  | 9,040        | 9,040  |
| 24°F               | 9,830                      | 9,830  | 10,030       | 10,030 | 10,800       | 10,800 | 10,340       | 10,340 |
| 32°F               | 11,040                     | 11,040 | 11,520       | 11,520 | 11,910       | 11,910 | 11,260       | 11,260 |
| 41°F               | 11,230                     | 11,230 | 11,980       | 11,980 | 12,010       | 12,010 | 11,393       | 11,393 |
| 43°F               | 12,000                     | 12,000 | 12,370       | 12,370 | 12,560       | 12,560 | 11,560       | 11,560 |
| 47°F               | 12,780                     | 12,780 | 13,060       | 13,060 | 13,640       | 13,640 | 12,110       | 12,110 |
| 53°F               | 13,020                     | 13,020 | 13,290       | 13,290 | 13,680       | 13,680 | 12,120       | 12,120 |
| 59°F               | 12,370                     | 12,370 | 12,680       | 12,680 | 12,950       | 12,950 | 12,230       | 12,230 |
| 64°F               | 12,010                     | 12,010 | 12,320       | 12,320 | 12,563       | 12,563 | 11,980       | 11,980 |
| 70°F               | 12,110                     | 12,110 | 12,360       | 12,360 | 12,803       | 12,803 | 11,870       | 11,870 |
| 75°F               | 12,350                     | 12,350 | 12,960       | 12,960 | 12,780       | 12,780 | 11,590       | 11,590 |

\* Maximum system capacity

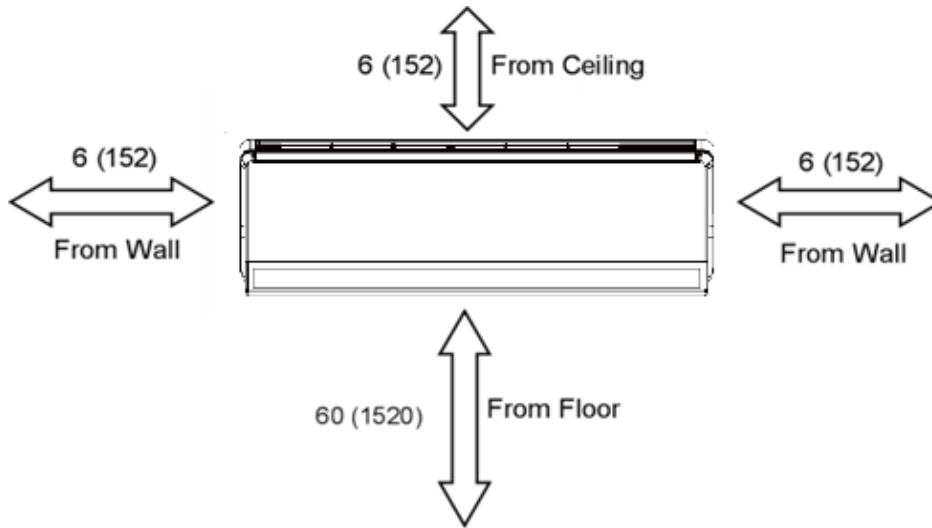
TC- Total Capacity ( BtuH)

SHC- Sensible Capacity (BtuH)

MINIMUM SPACING REQUIREMENTS

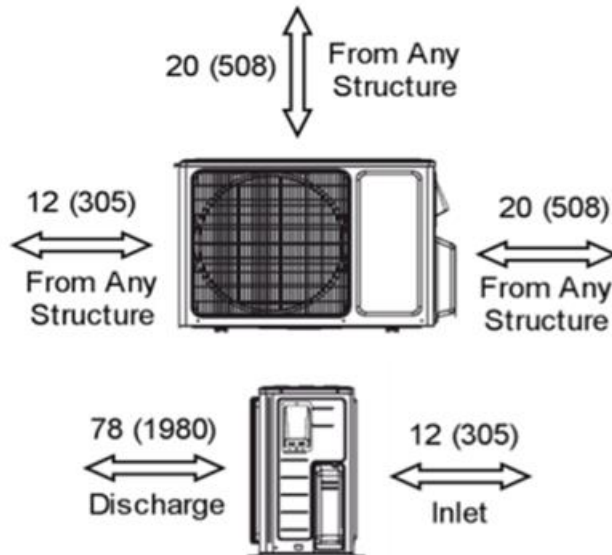
Units: inch (mm)

INDOOR



Units: inch (mm)

OUTDOOR



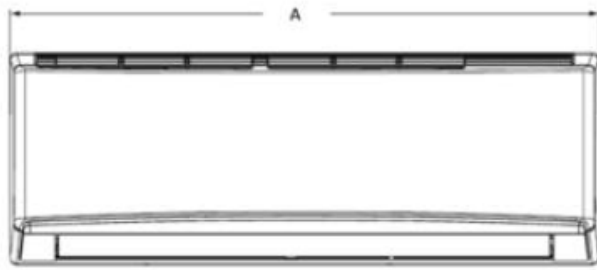
## DIMENSIONAL SPECIFICATIONS

## LIVS12HP115V1B

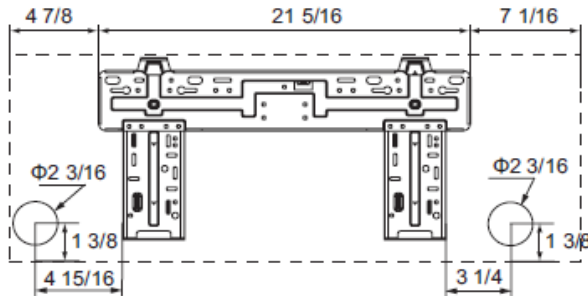
### INDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS12HP115V1BH



| Dimensions |      |
|------------|------|
| A          | 33.3 |
| B          | 11.4 |
| C          | 8.3  |



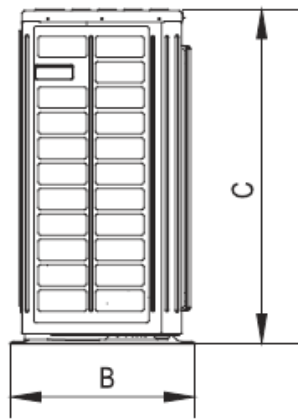
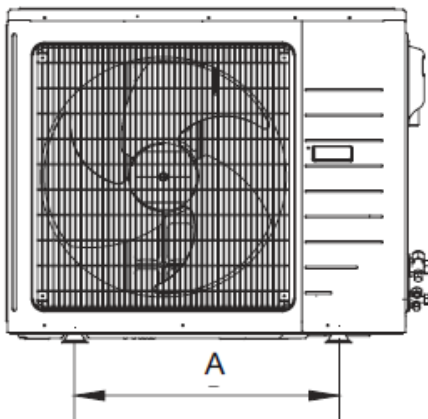
Weight (Net/Gross) 22.1/27.6 lbs

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve    | 3/8-in OD Flared |
| Drain Connector   | 5/8-in OD        |

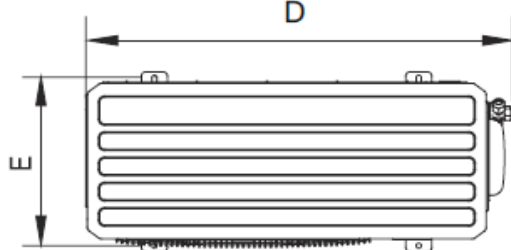
### OUTDOOR UNIT DIMENSIONS

Units: inch

Model No: LIVS12HP115V1BO



| Dimensions |      |
|------------|------|
| A          | 21.3 |
| B          | 12.6 |
| C          | 21.3 |
| D          | 33.4 |
| E          | 11.3 |



Weight (Net/Gross) 67.3/72.8 lbs

|                   |                  |
|-------------------|------------------|
| Liquid Line Valve | 1/4-in OD Flared |
| Gas Line Valve    | 3/8-in OD Flared |

**Notes:**

1. Recommended Interconnecting Cable Type 14 AWG 4 Stranded Copper Conductors THHN 600V Wire
2. Power wiring cable size must comply with applicable national and local codes.
3. Test conditions are based on AHRI 210/240.

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