



# Submittal:

Models:

LIHP024000P431

LIHP036000P431

LIHP048000P431

(Refrigerant R410A)

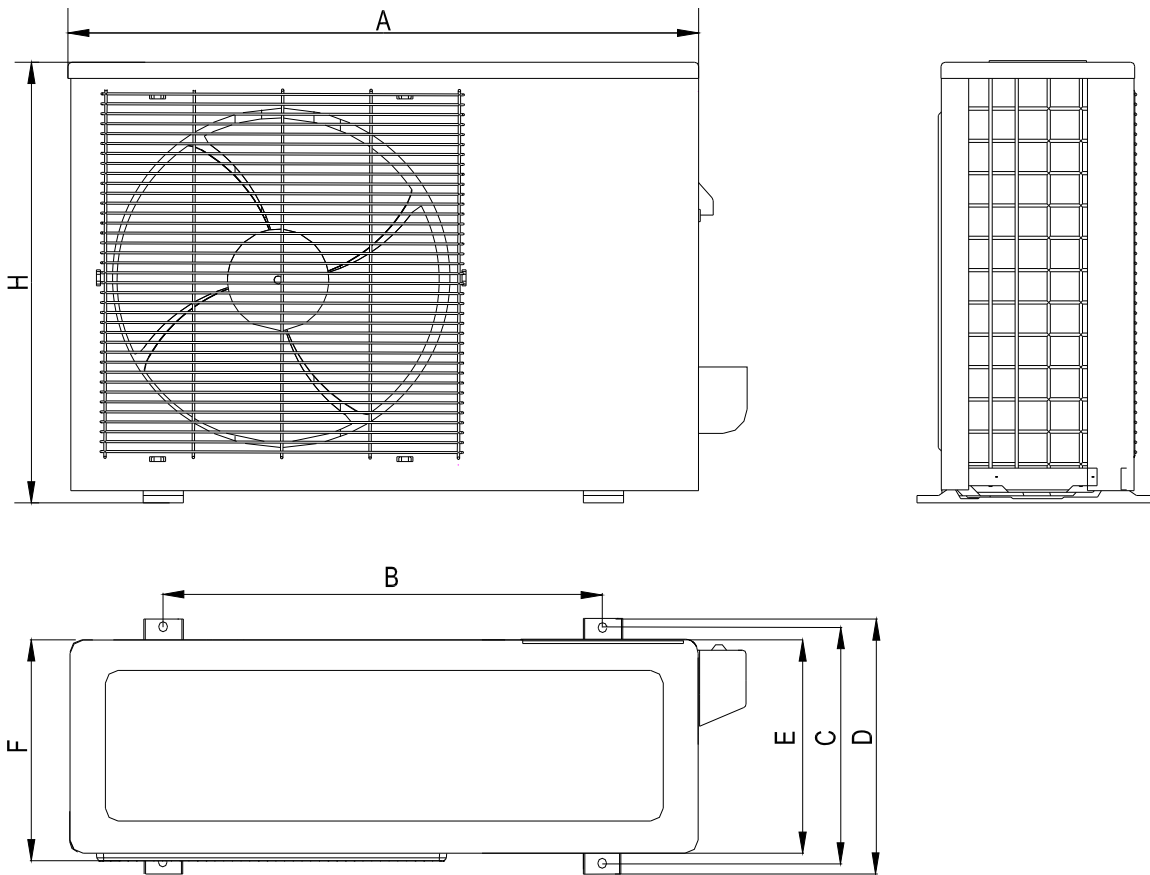
Thank you for selecting LENNOX air conditioners.

# 1. Specifications

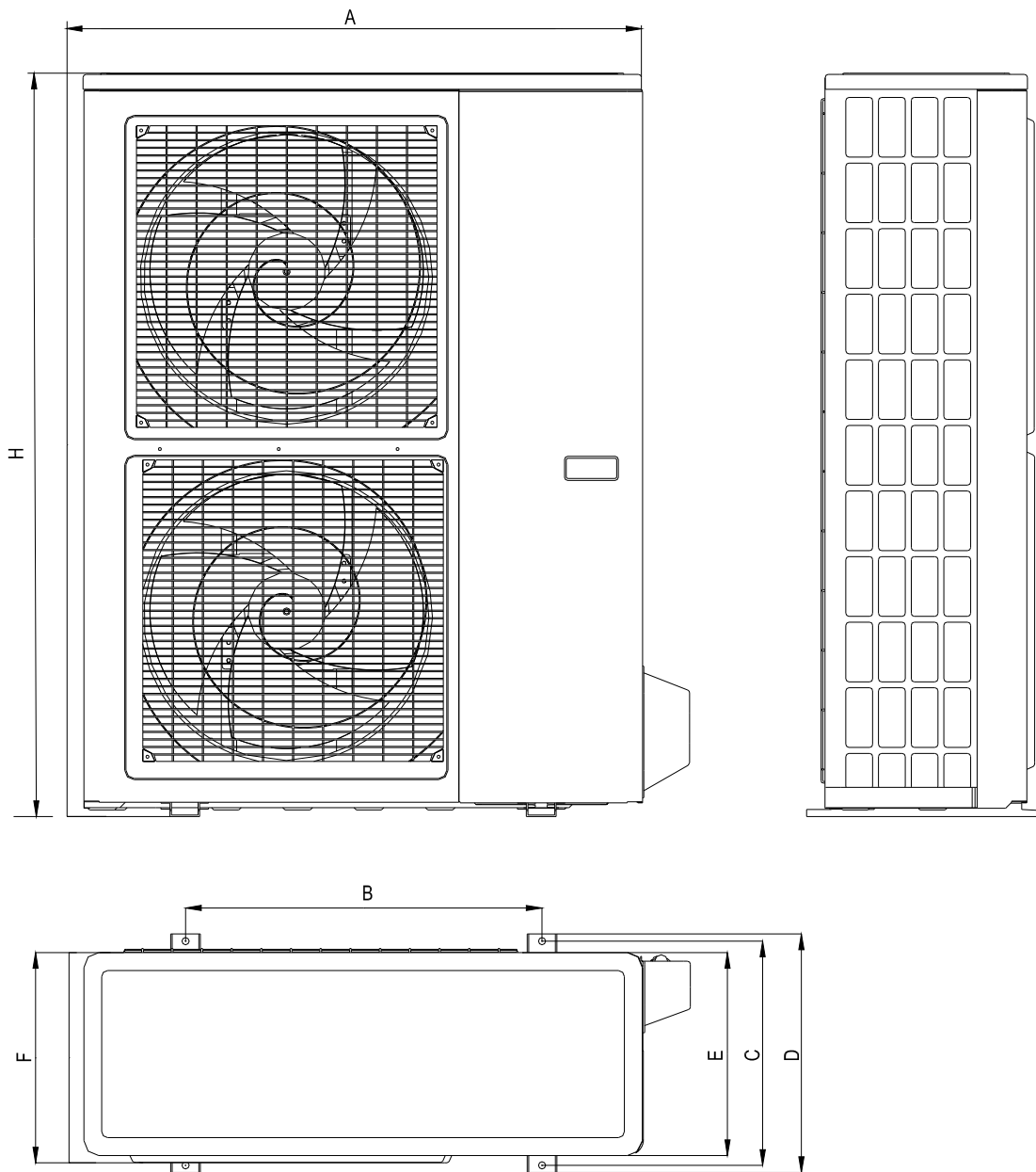
| Model                                   |                          | LIHP024000P431 | LIHP036000P431         | LIHP048000P431         |                        |
|---|--------------------------|----------------|------------------------|------------------------|------------------------|
| Max. fuse                               | A                        | 30             | 50                     | 55                     |                        |
| Minimum circuit ampacity                | A                        | 20             | 30                     | 35                     |                        |
| Low temperature heating capacity (2°C)  | Btu/h                    | 16815          | 20615                  | 34175                  |                        |
| Low temperature heating capacity (-7°C) | Btu/h                    | 17495          | 18230                  | 28595                  |                        |
| Compressor                              | Model                    | DA250S2C-30MT  | TNB306FPGMC-L          | MNB36FAAMC-L           |                        |
|   | Type                     | Twin-rotary    | Twin-rotary            | Twin-rotary            |                        |
|   | Brand                    | GMCC           | Mitsubishi             | Mitsubishi             |                        |
|   | Capacity                 | Btu/h          | 26289                  | 33711                  | 40603                  |
|   | Input                    | W              | 2120                   | 3010                   | 3520                   |
|   | Rated current (RLA)      | A              | 13.9                   | 22                     | 23.5                   |
|   | Locked rotor Amp(LRA)    | A              | /                      | /                      | /                      |
| Refrigerant oil                         | ml                       | 820            | 1070                   | 1400                   |                        |
| Outdoor fan motor                       | Model                    | WZDK72-38G     | WZDK180-38G            | WZDK85-38G             |                        |
|   | Qty                      | 1              | 1                      | 2                      |                        |
|   | Input                    | W              | 72                     | 180                    | 85                     |
|   | Capacitor                |                | /                      | /                      | /                      |
|   | Speed                    | r/min          | 850                    | 860                    | 1000                   |
| Outdoor air flow (Max.)                 | m3/h                     | 3500           | 5500                   | 7200                   |                        |
| Outdoor air flow (Max.)                 | CFM                      | 2060           | 3240                   | 4240                   |                        |
| Outdoor noise level                     |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
| Throttle type                           |                          | Capillary +EXV | Capillary +EXV         | Capillary +EXV         |                        |
| Outdoor unit                            | Dimension (W×D×H)        | mm             | 900x315x860            | 990x345x965            | 938x392x1369           |
|   | Dimension (W×D×H)        | inch           | 35.43x12.4x33.86       | 38.98x13.58x37.99      | 36.93x15.43x53.9       |
|   | Packing (W×D×H)          | mm             | 1043x395x915           | 1120x435x1100          | 1095x495x1505          |
|   | Packing (W×D×H)          | inch           | 41.06x15.55x36.02      | 44.09x17.13x43.31      | 43.11x19.49x59.25      |
|   | Net/ Gross weight        | kg             | 61/85                  | 73/83                  | 100/114                |
|   | Net/ Gross weight        | lbs.           | 134.48/143.3           | 160.94/182.98          | 220.46/251.33          |
| Refrigerant type/Quantity               | Type                     |                | R410A                  | R410A                  | R410A                  |
|   | Charged volume           | Oz             | 86.5                   | 97.00                  | 152.00                 |
| Refrigerant precharge                   | ft                       | 25             | 25                     | 25                     |                        |
| Additional charge for each ft           | oz                       | 0.32           | 0.32                   | 0.32                   |                        |
| Design pressure                         |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
|   |                          |                |                        |                        |                        |
| Refrigerant piping                      | Liquid side/ Gas side    | mm(inch)       | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") | Φ9.52/Φ15.9(3/8"/5/8") |
|   | Max. pipe length         | m              | 50                     | 65                     | 65                     |
|   | Max. pipe length         | ft             | 164                    | 213                    | 213                    |
|   | Max. difference in level | m              | 25                     | 30                     | 30                     |
|   | Max. difference in level | ft             | 82                     | 98                     | 98                     |
| Ambient temperature                     | Cooling                  | °C             | -15~50                 | -15~50                 | -15~50                 |
|   | Cooling                  | °F             | 5~122                  | 5~122                  | 5~122                  |
|   | Heating                  | °C             | -15~24                 | -15~24                 | -15~24                 |
|   | Heating                  | °F             | 5~76                   | 5~76                   | 5~76                   |

Remarks: 1. The above design and specifications are subject to change without prior notice for product improvement.

## 2. Dimensions



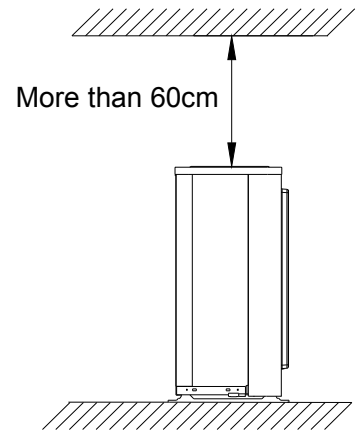
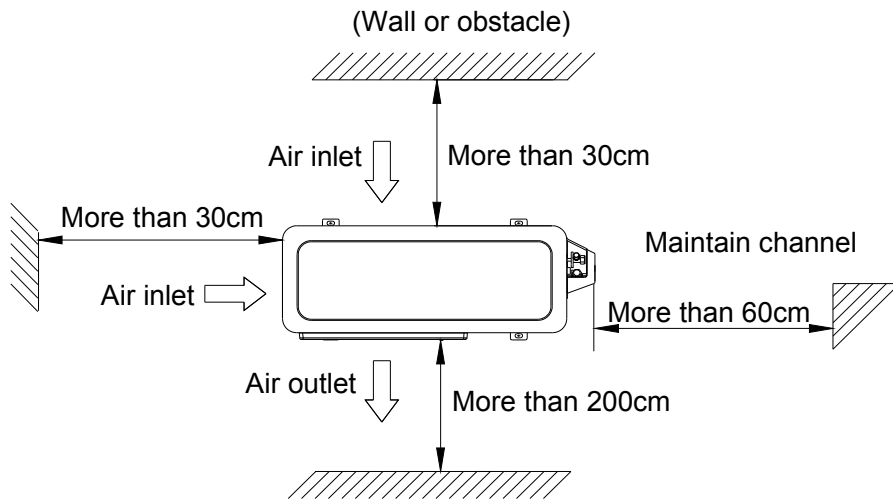
| Model          | Unit: mm |     |     |     |     |     |     |
|----------------|----------|-----|-----|-----|-----|-----|-----|
|                | A        | B   | C   | D   | E   | F   | H   |
| LIHP024000P431 | 900      | 590 | 333 | 355 | 302 | 315 | 860 |
| LIHP036000P431 | 990      | 624 | 366 | 396 | 340 | 345 | 965 |



| Model          | Unit: mm |       |     |     |     |     |      |
|----------------|----------|-------|-----|-----|-----|-----|------|
|                | A        | B     | C   | D   | E   | F   | H    |
| LIHP048000P431 | 938      | 633.5 | 404 | 448 | 370 | 392 | 1369 |

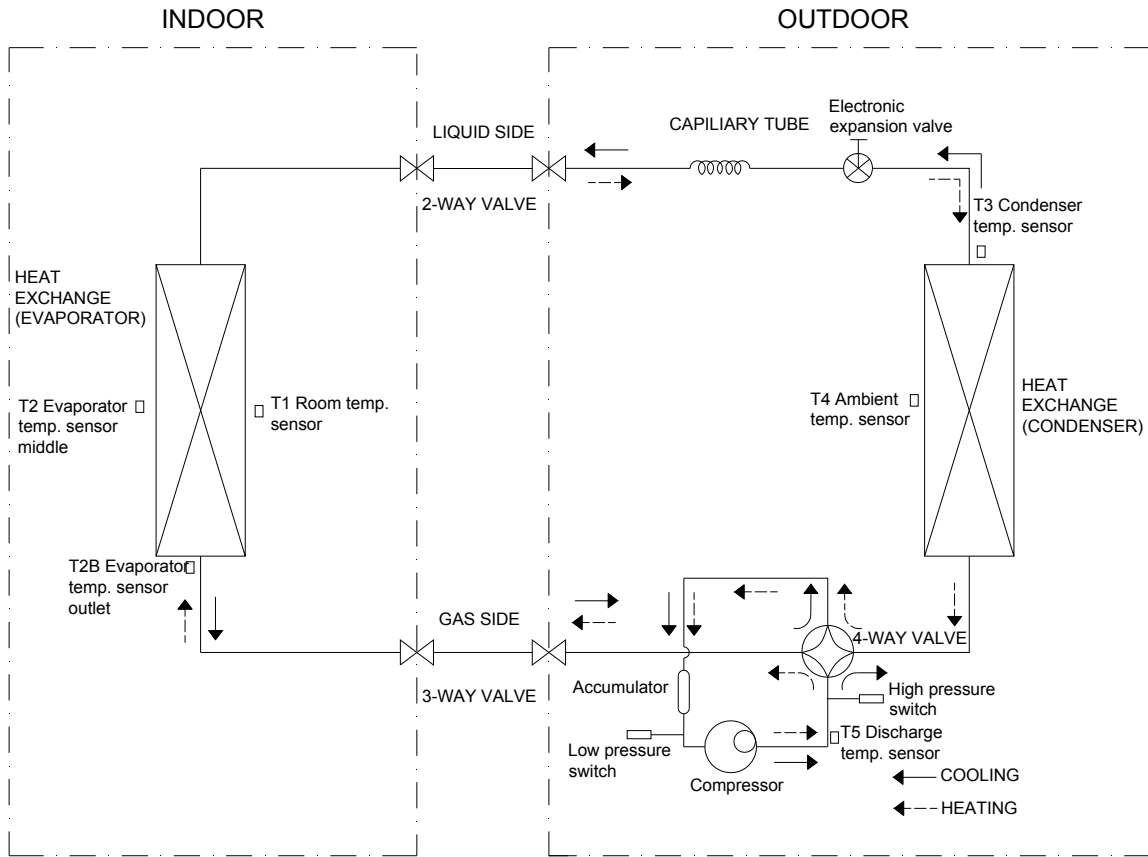
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### 3. Service Space



# 4. Piping Diagrams

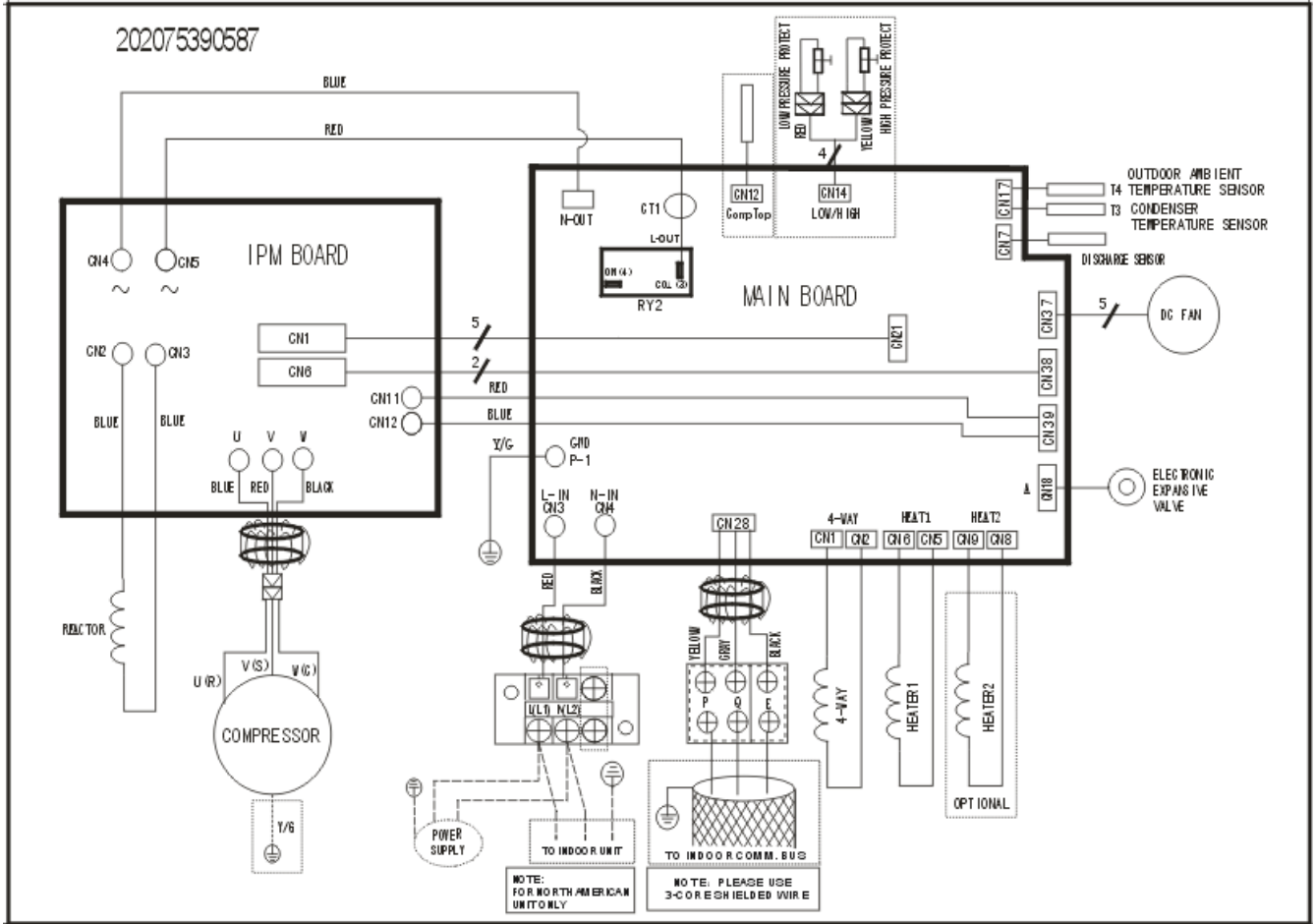
LIHP024, LIHP036, LIHP048000P431



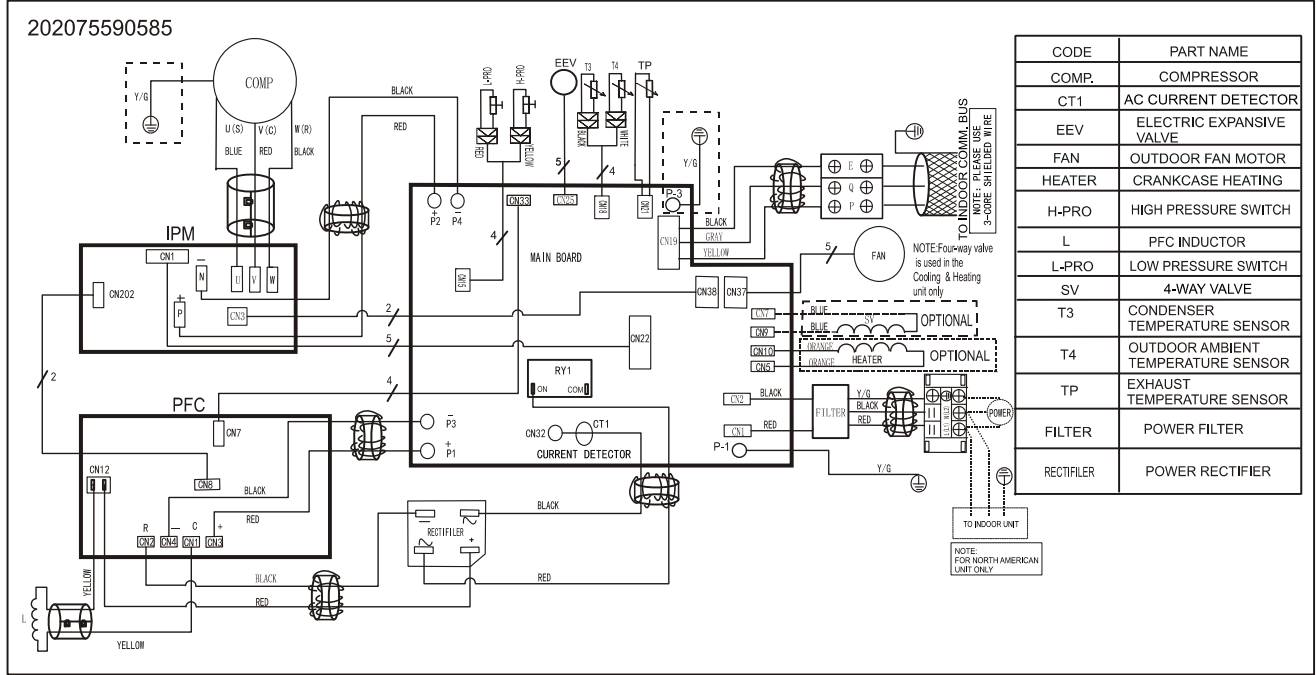
For LIHP024, there are no high pressure switch and low pressure switch.

# 5. Wiring Diagrams

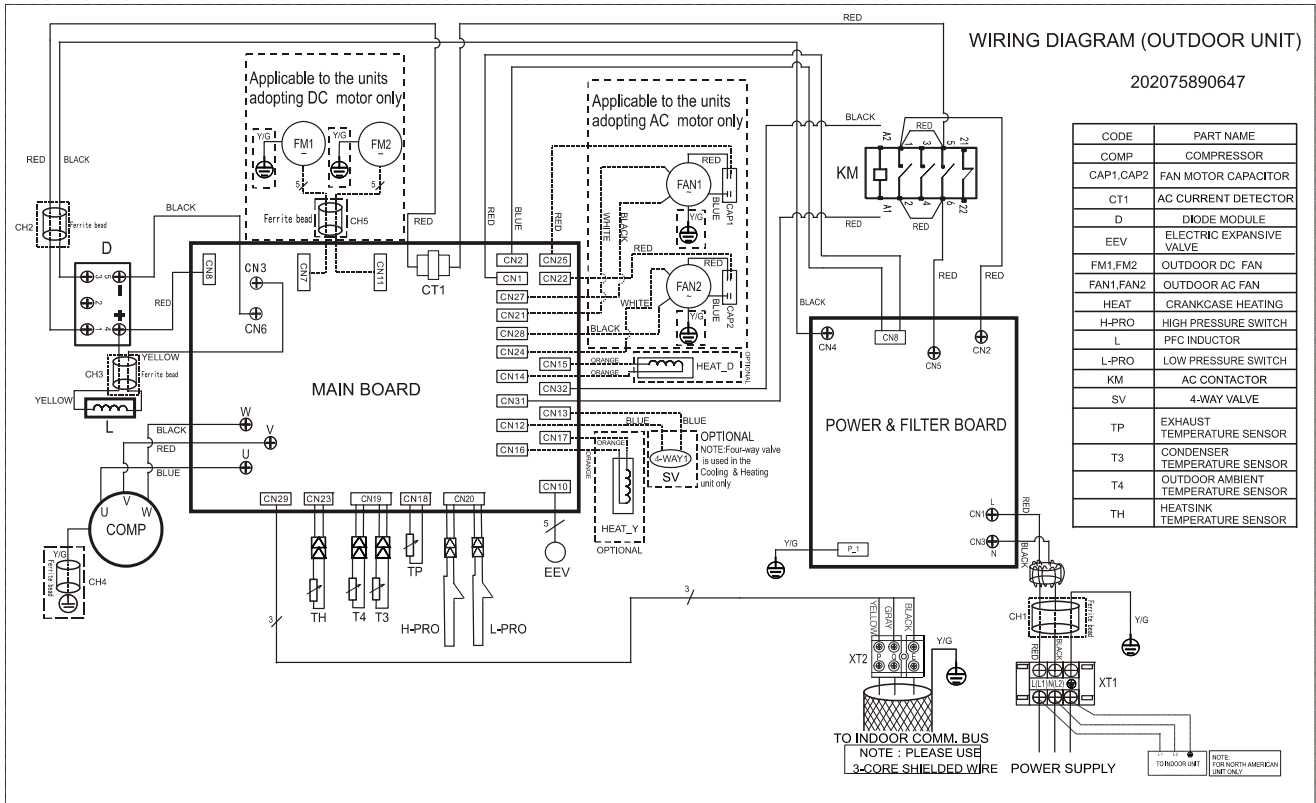
LIHP024000P431



# LIHP03600P431



# LIHP04800P431





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## 6. Electric Characteristics

| Model          | Outdoor Unit |          |      |      | Power Supply |
|----------------|--------------|----------|------|------|--------------|
|                | Hz           | Voltage  | Min. | Max. | MFA          |
| LIHP024000P431 | 60           | 208-230V | 187V | 253V | 30           |
| LIHP036000P431 | 60           | 208-230V | 187V | 253V | 30           |
| LIHP048000P431 | 60           | 208-230V | 187V | 253V | 30           |

**Note:**

MFA: Max. Fuse Amps. (A)

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## 7. Operation Limits

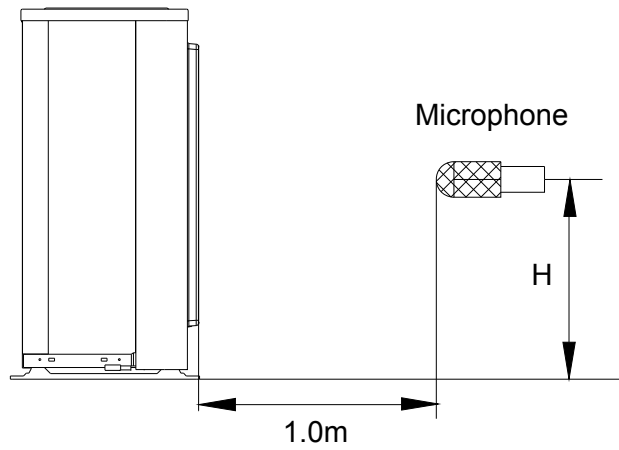
| Temperature<br>Mode | Cooling operation                             | Heating operation                             |
|---------------------|---|---|
| Room temperature    | $\geq 17^{\circ}\text{C}$                     | $\leq 30^{\circ}\text{C}$                     |
| Outdoor temperature | $-15^{\circ}\text{C} \sim 50^{\circ}\text{C}$ | $-15^{\circ}\text{C} \sim 24^{\circ}\text{C}$ |

### CAUTION:

1. If the air conditioner is used beyond the above conditions, certain safety protection features may come into operation and cause the unit to operate abnormally.
  2. The room relative humidity should be less than 80%. If the air conditioner operates beyond this figure, the surface of the air conditioner may attract condensation. Please set the vertical air flow louver to its maximum angle (vertically to the floor), and set HIGH fan mode.
  3. The optimum performance will be achieved during this operating temperature zone.
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## 8. Sound Levels

Outdoor Unit



**Note:**  $H = 0.5 \times$  height of outdoor unit

| Model   | Noise Level dB(A) |
|---------|-------------------|
| LIHP024 | 61.5              |
| LIHP036 | 66                |
| LIHP048 | 64                |