

|               |  |
|---------------|--|
| Job Name:     |  |
| Submitted By: |  |



Submittal Sheet For:

**YN050GLSI24M5G / (5x) RT0xxGLSILCFHG**

Date \_\_\_\_\_

Ref. \_\_\_\_\_

**Quint (5) Circuit Ducted Inverter Heat Pump Set**

System Full Set Model: **YN050GLSI24M5G**

AHRI Reference Number: **217048775**

**Cooling Mode Performance**

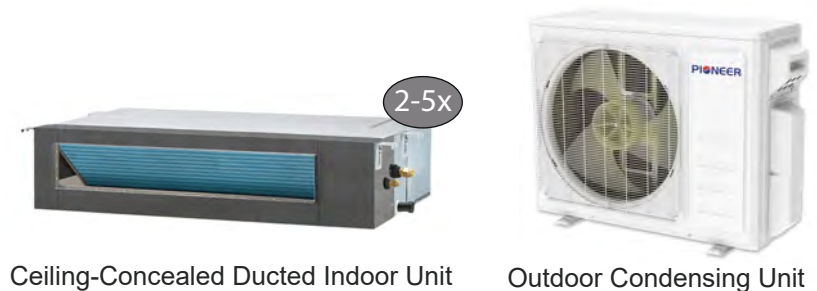
|               |               |
|---------------|---------------|
| Rated Cooling | 41,000 BTU/hr |
| Ambient Range | 5~131°F       |
| SEER2 Rating  | 20 BTU/W·h    |
| EER2 Rating   | 11.7 BTU/W·h  |

\* 100% Capacity @ Indoor DB 80°F / WB 67°F

**Heating Mode Performance**

|               |                   |
|---------------|-------------------|
| Rated Heating | 42,000 BTU/hr     |
| Ambient Range | -13~86°F          |
| HSPF2 IV (V)  | 8.5 (7.3) BTU/W·h |
| COP2 (47°F)   | 3.2 W/W           |

Low Heat (17°F) = 29,400 BTU / COP2 (5°F) = 1.9 W/W



Ceiling-Concealed Ducted Indoor Unit

Outdoor Condensing Unit



User-Selected Installation Kit



Handheld Remote Controller

**Electrical Information**

| Rated Input (W)   | Cooling             | Heating |
|-------------------|---------------------|---------|
|                   | 3,650               | 3,370   |
| Rated Current (A) | 16.4                | 15.1    |
| Breaker Needed    | 45A (Double-Pole)   |         |
| Power Supply      | 208~230V, 1Ph, 60Hz |         |

**Piping and Refrigerant**

|                              |                           |
|------------------------------|---------------------------|
| Liquid Line (OD)             | 1/4 in (5)                |
| Suction Line (OD)            | 3/8 in (5)                |
| Refrigerant Precharge        | R-454b(Supports 10-25ft.) |
| Vertical Run/Elevation Diff. | 50 ft. / 33 ft.           |

This combination is  
Energy-Star certified.

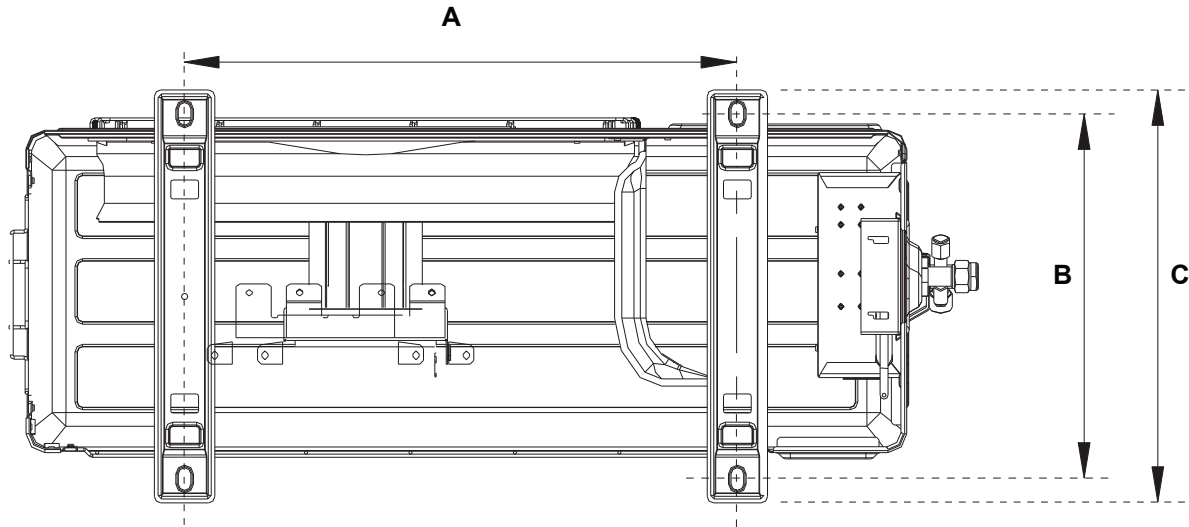


**Exterior Unit (Condenser) Specifications**

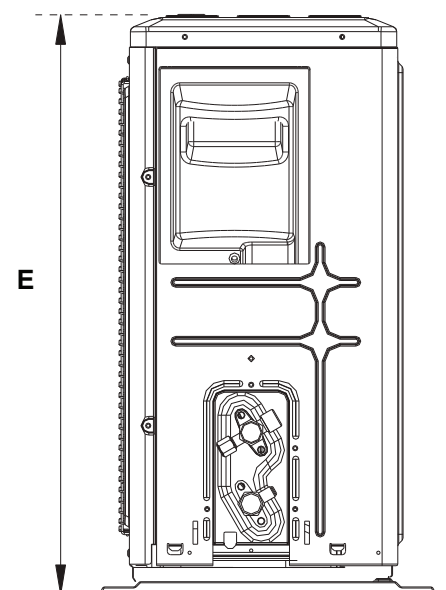
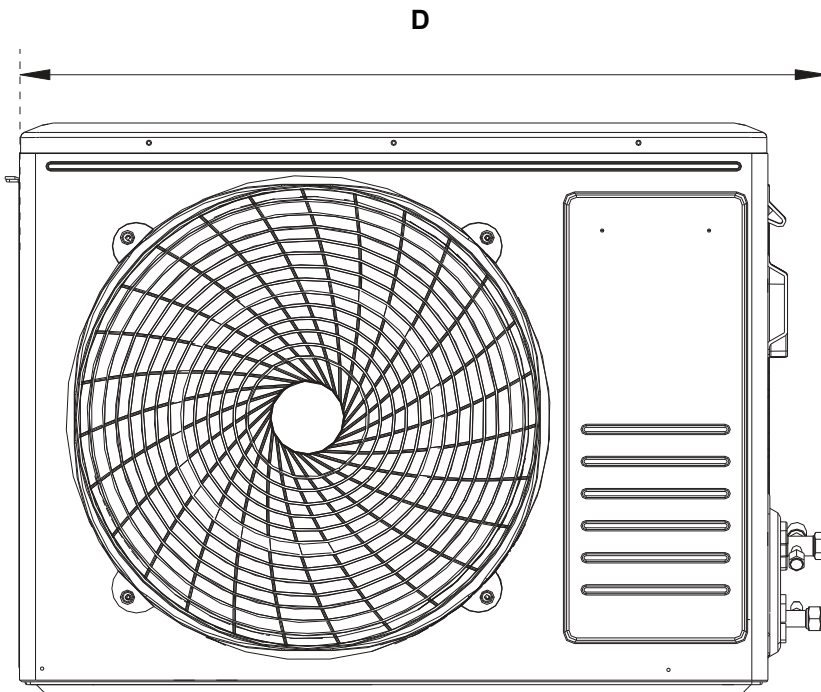
|                       |                                   |
|-----------------------|-----------------------------------|
| Sound Level (dBA)     | 65                                |
| Recommended Room Size | 1,000~1,600 Sq. ft.               |
| Minimum Room Size     | 135 Sq. ft.                       |
| Compressor            | Twin-Rotary                       |
| Dimensions (WDH)      | 42-1/4 in x 18-3/8 in x 33-1/2 in |
| Weight (lbs)          | 174.2                             |

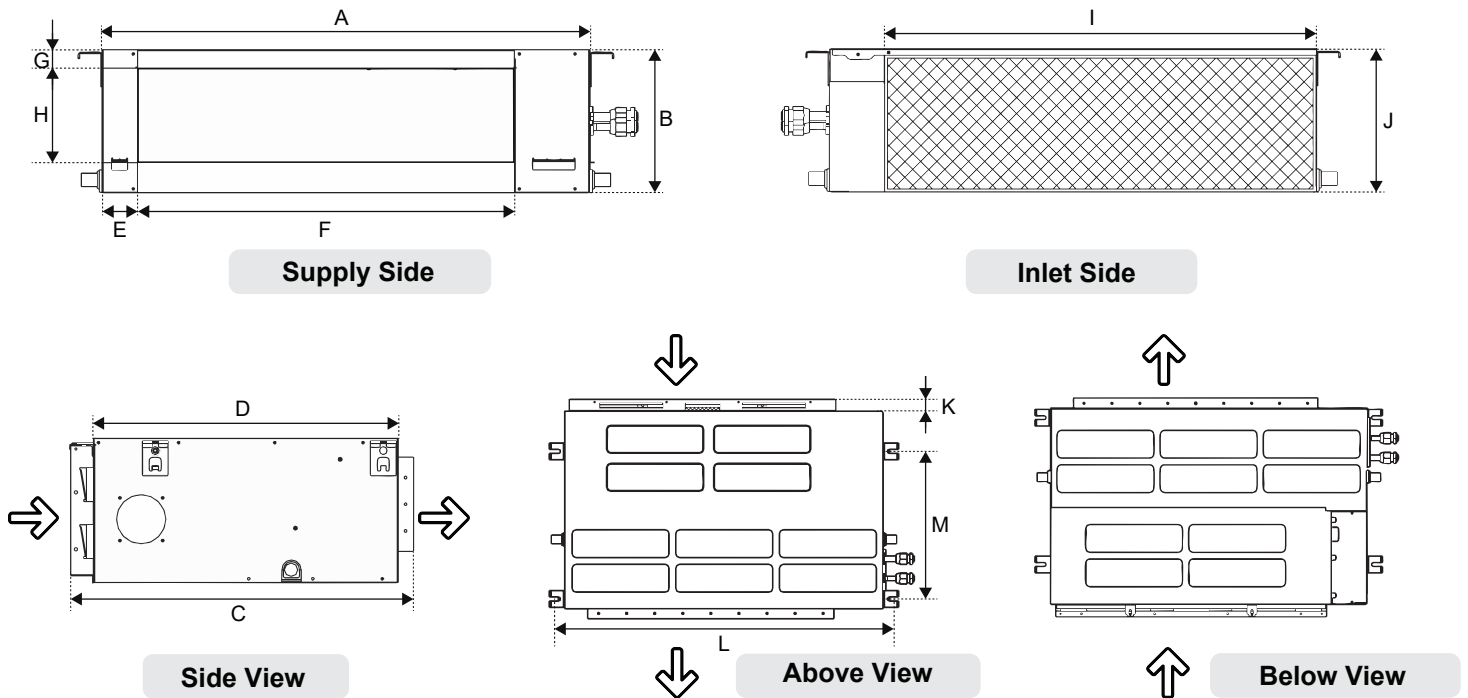
**Compatible Indoor Air Handler Units**

|                      |                                     |
|----------------------|-------------------------------------|
| RT009GLSILCFHG (9K)  | RT012GLSILCFHG (12K)                |
| RT018GLSILCFHG (18K) | RT012GLSILCFHG (24K)                |
| Quantity             | 5 (Up to 60,000 BTU)                |
| Max Circuit Length   | 80 ft. (9K) / 100 ft. (12K/18K/24K) |
| Max Vertical Run     | 33 ft. (9K/12K/18K/24K)             |
| Adjustment Charge    | 0.11 oz x (L1+L2+L3+L4+L5-125 ft.)  |

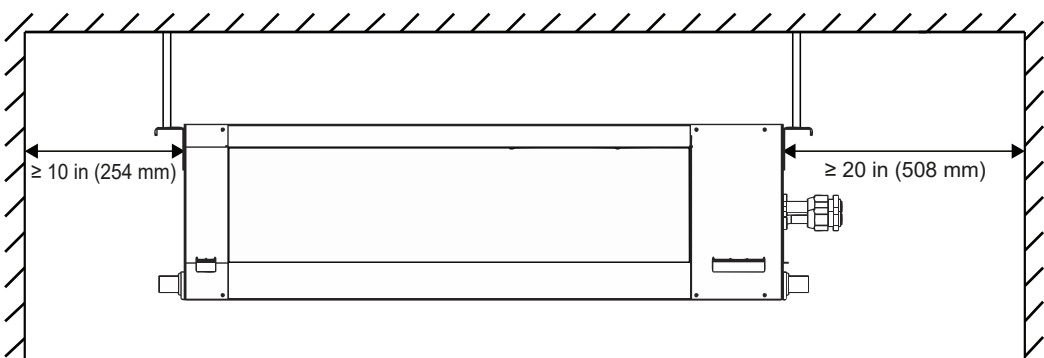
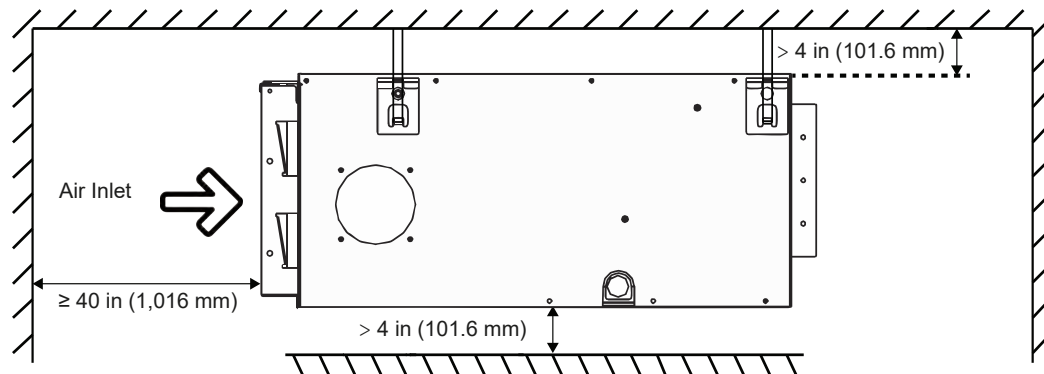


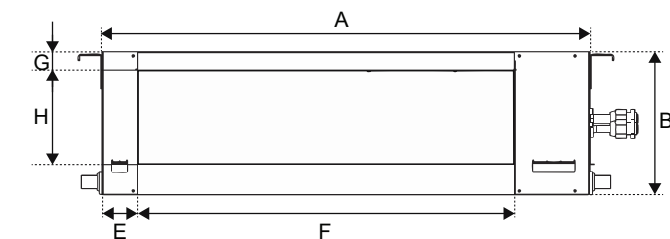
| Model                                   | A      | B         | C         | D         | E         |
|-----------------------------------------|--------|-----------|-----------|-----------|-----------|
| YN050GLSI24M5G<br>(42,000 BTU / 5-Zone) | 26 in  | 18-1/4 in | 18-3/8 in | 42-1/4 in | 33-5/8 in |
|                                         | 660 mm | 462 mm    | 468 mm    | 1,074 mm  | 853 mm    |



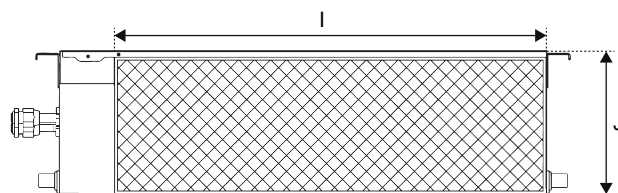


| Overall Air Handler Dimensions |          |           |           | Front Side Air Outlet (Supply) |           |        |          | Rear Side Air Inlet (Return) |          |          | Mounting Brackets |           |
|--------------------------------|----------|-----------|-----------|--------------------------------|-----------|--------|----------|------------------------------|----------|----------|-------------------|-----------|
| A                              | B        | C         | D         | E                              | F         | G      | H        | I                            | J        | K        | L                 | M         |
| 27-5/8 in                      | 7-7/8 in | 19-3/8 in | 17-3/4 in | 1-3/4 in                       | 20-1/8 in | 1/8 in | 5-1/2 in | 23-5/8 in                    | 7-3/8 in | 1-3/8 in | 29-1/8 in         | 11-3/4 in |
| 701.7 mm                       | 200 mm   | 492.1 mm  | 450.9 mm  | 44.5 mm                        | 511.2 mm  | 3.2 mm | 139.7 mm | 600.1 mm                     | 187.3 mm | 34.9 mm  | 739.8 mm          | 298.5 mm  |

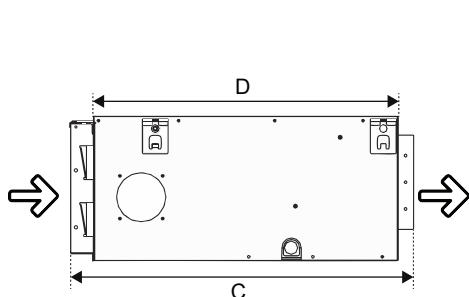




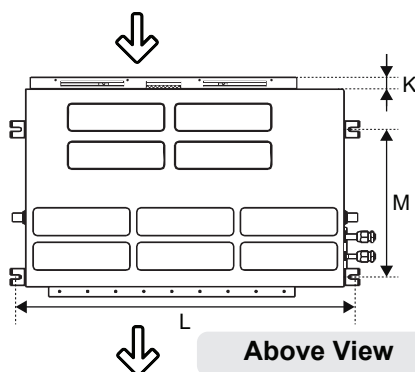
Supply Side



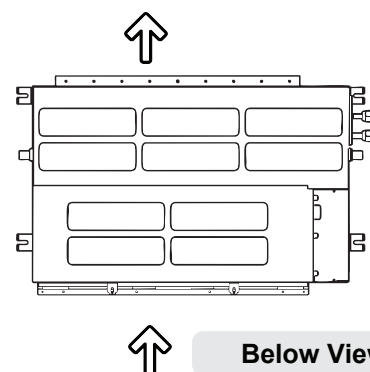
Inlet Side



Side View

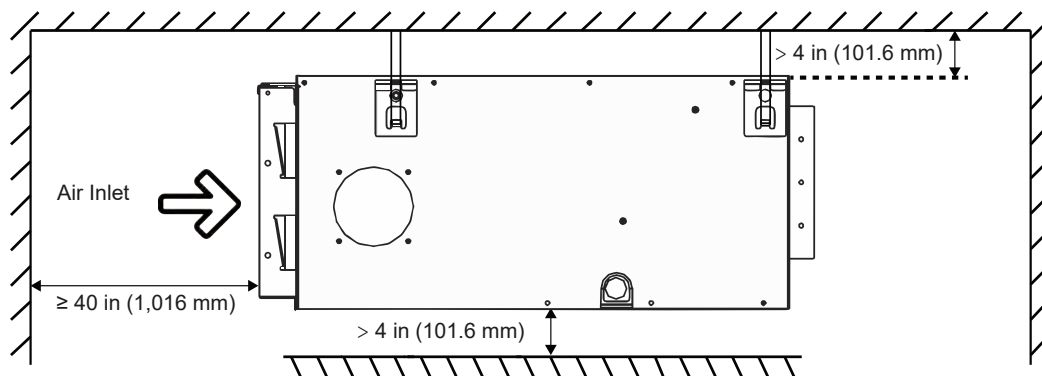


Above View

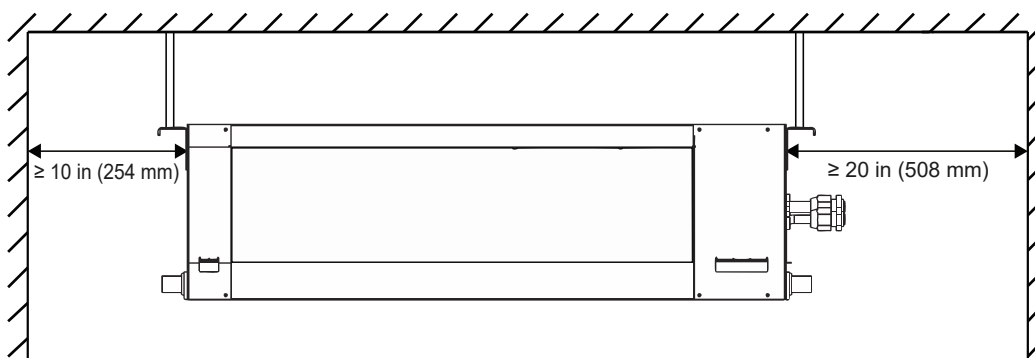


Below View

| Overall Air Handler Dimensions |          |           |           | Front Side Air Outlet (Supply) |           |        |          | Rear Side Air Inlet (Return) |          |          | Mounting Brackets |           |
|--------------------------------|----------|-----------|-----------|--------------------------------|-----------|--------|----------|------------------------------|----------|----------|-------------------|-----------|
| A                              | B        | C         | D         | E                              | F         | G      | H        | I                            | J        | K        | L                 | M         |
| 27-5/8 in                      | 7-7/8 in | 19-3/8 in | 17-3/4 in | 1-3/4 in                       | 20-1/8 in | 1/8 in | 5-1/2 in | 23-5/8 in                    | 7-3/8 in | 1-3/8 in | 29-1/8 in         | 11-3/4 in |
| 701.7 mm                       | 200 mm   | 492.1 mm  | 450.9 mm  | 44.5 mm                        | 511.2 mm  | 3.2 mm | 139.7 mm | 600.1 mm                     | 187.3 mm | 34.9 mm  | 739.8 mm          | 298.5 mm  |

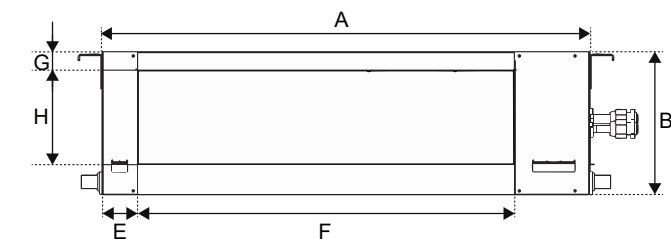


Side View

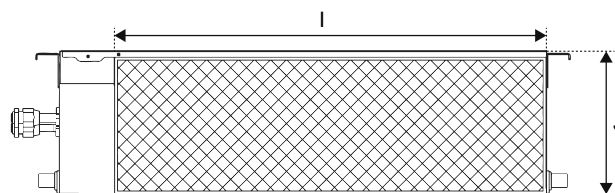


Front View

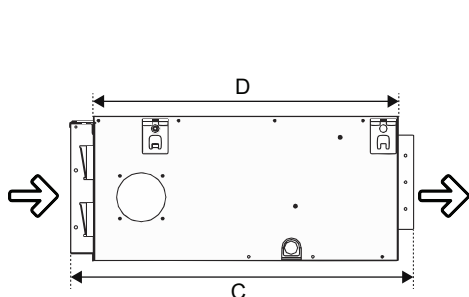
# RT018GLSILCFHG Air Handler Dimensional Data



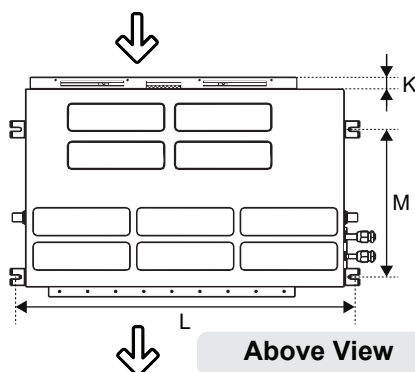
Supply Side



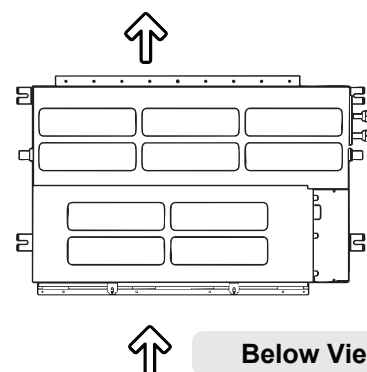
Inlet Side



Side View

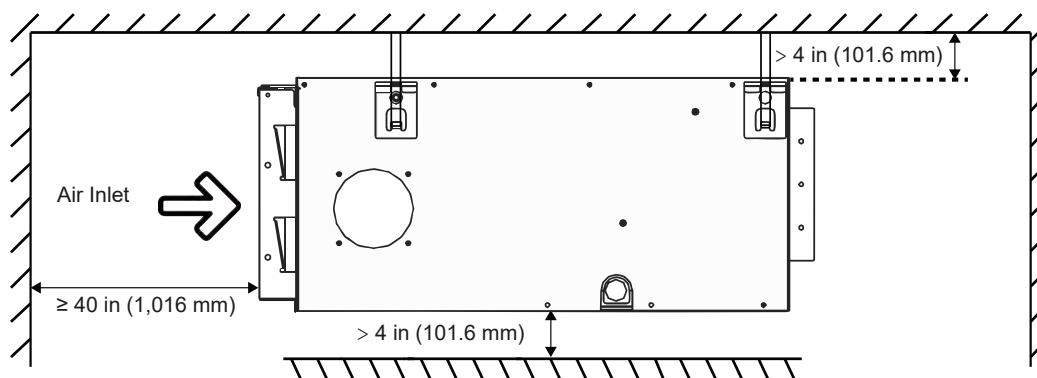


Above View

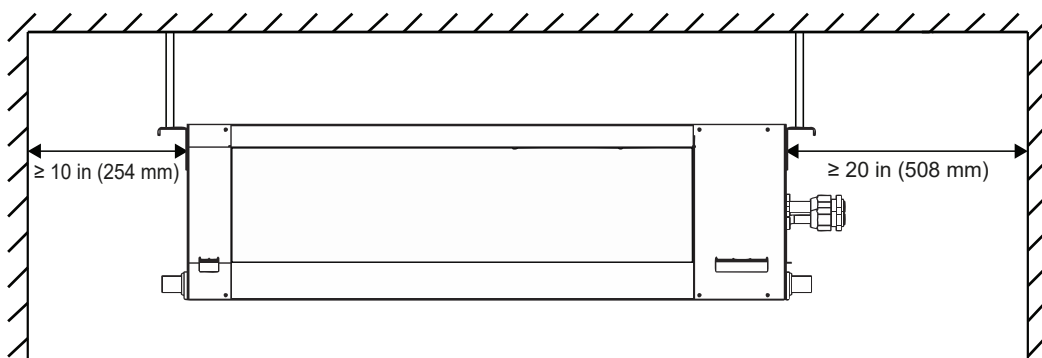


Below View

| Overall Air Handler Dimensions |          |           |           | Front Side Air Outlet (Supply) |           |        |          | Rear Side Air Inlet (Return) |          |          | Mounting Brackets |           |
|--------------------------------|----------|-----------|-----------|--------------------------------|-----------|--------|----------|------------------------------|----------|----------|-------------------|-----------|
| A                              | B        | C         | D         | E                              | F         | G      | H        | I                            | J        | K        | L                 | M         |
| 36-1/4 in                      | 7-7/8 in | 19-3/8 in | 17-3/4 in | 1-3/4 in                       | 28-3/4 in | 1/8 in | 5-1/2 in | 32-1/4 in                    | 7-3/8 in | 1-3/8 in | 37-3/4 in         | 11-3/4 in |
| 920.8 mm                       | 200 mm   | 492.1 mm  | 450.9 mm  | 44.5 mm                        | 730.3 mm  | 3.2 mm | 139.7 mm | 819.2 mm                     | 187.3 mm | 34.9 mm  | 958.9 mm          | 298.5 mm  |

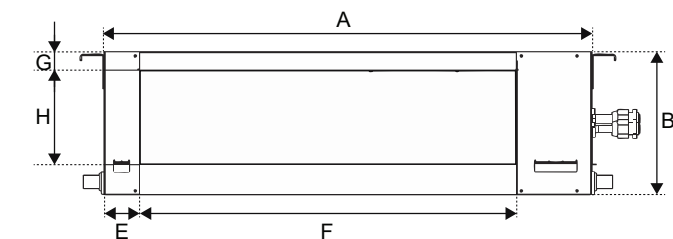


Side View

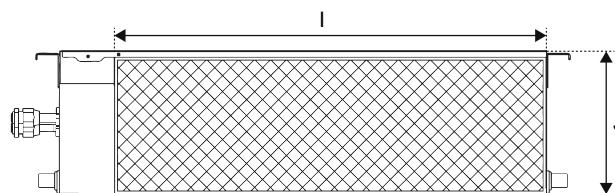


Front View

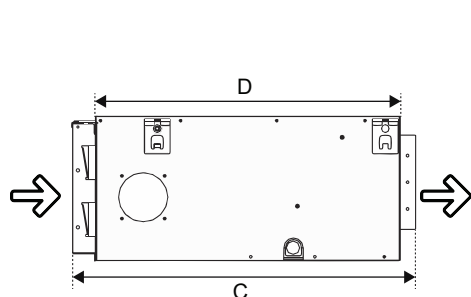
# RT024GLSILCFHG Air Handler Dimensional Data



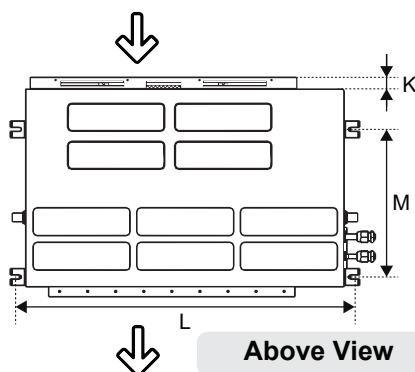
Supply Side



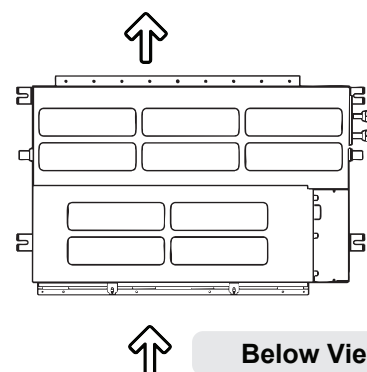
Inlet Side



Side View

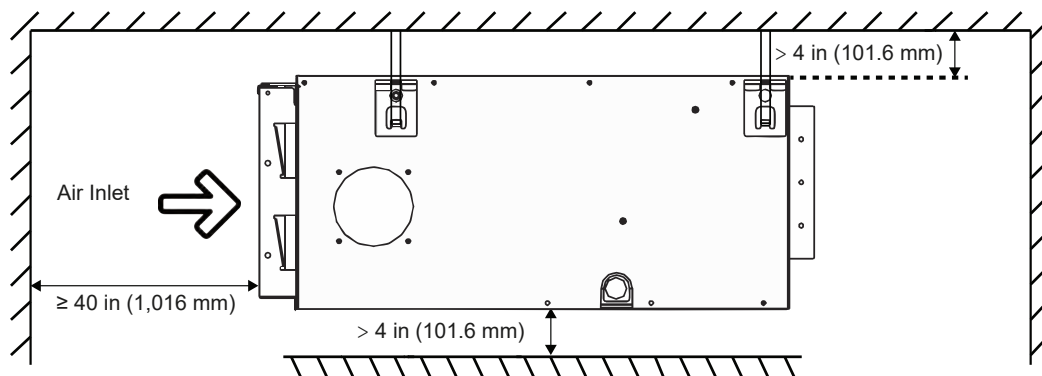


Above View

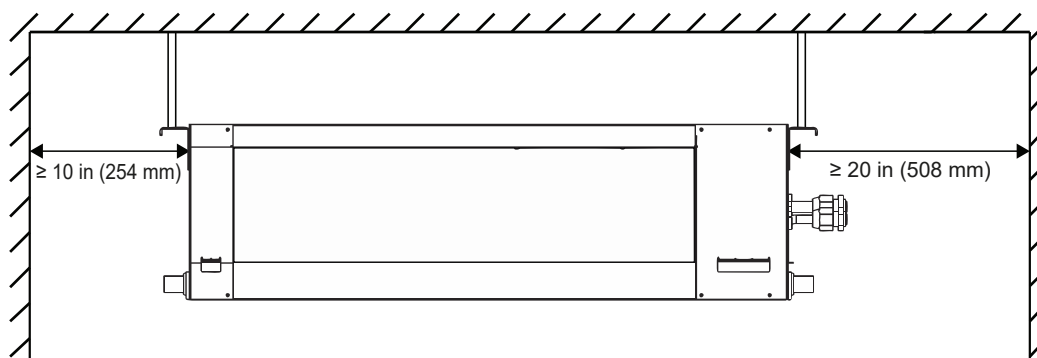


Below View

| Overall Air Handler Dimensions |          |           |           | Front Side Air Outlet (Supply) |           |        |          | Rear Side Air Inlet (Return) |          |          | Mounting Brackets |           |
|--------------------------------|----------|-----------|-----------|--------------------------------|-----------|--------|----------|------------------------------|----------|----------|-------------------|-----------|
| A                              | B        | C         | D         | E                              | F         | G      | H        | I                            | J        | K        | L                 | M         |
| 43-3/4 in                      | 7-7/8 in | 19-3/8 in | 17-3/4 in | 1-1/8 in                       | 36-5/8 in | 1/8 in | 5-1/2 in | 40-5/8 in                    | 7-1/4 in | 1-3/8 in | 37-7/8 in         | 14-3/8 in |
| 1,110.1 mm                     | 200 mm   | 492.1 mm  | 450.9 mm  | 28.6 mm                        | 930.3 mm  | 3.2 mm | 139.7 mm | 1,030.3 mm                   | 182.6 mm | 34.9 mm  | 960.4 mm          | 365.1 mm  |



Side View



Front View

**RT009GLSILCFHG (Air Handler) Specifications**

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Airflow Rate (cfm)   | 335(Turbo)/305(Hi)/276(Med)/182(Lo)/182(Mute)         |
| Sound Level (dBA)    | 42 (Turbo) / 39 (Hi) / 34 (Med) / 28 (Lo) / 28 (Mute) |
| Auto Air Circulation | 2-Way Louver (Up-Down + Left-Right)                   |
| Dimensions (WDH)     | 27-1/2 in x 19-1/4 in x 7-1/8 in                      |
| Weight (lbs)         | 33.1                                                  |

**RT012GLSILCFHG (Air Handler) Specifications**

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Airflow Rate (cfm)   | 360(Turbo)/330(Hi)/270(Med)/210(Lo)/180(Mute)         |
| Sound Level (dBA)    | 44 (Turbo) / 41 (Hi) / 35 (Med) / 33 (Lo) / 32 (Mute) |
| Auto Air Circulation | 2-Way Louver (Up-Down + Left-Right)                   |
| Dimensions (WDH)     | 27-1/2 in x 19-1/4 in x 7-1/8 in                      |
| Weight (lbs)         | 33.1                                                  |

**RT018GLSILCFHG (Air Handler) Specifications**

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Airflow Rate (cfm)   | 500(Turbo)/426(Hi)/370(Med)/300(Lo)/283(Mute)         |
| Sound Level (dBA)    | 48 (Turbo) / 44 (Hi) / 41 (Med) / 36 (Lo) / 33 (Mute) |
| Auto Air Circulation | 2-Way Louver (Up-Down + Left-Right)                   |
| Dimensions (WDH)     | 35-1/2 in x 19-1/4 in x 7-7/8 in                      |
| Weight (lbs)         | 39.7                                                  |

**RT024GLSILCFHG (Air Handler) Specifications**

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Airflow Rate (cfm)   | 741(Turbo)/623(Hi)/558(Med)/529(Lo)/470(Mute)         |
| Sound Level (dBA)    | 51 (Turbo) / 49 (Hi) / 46 (Med) / 39 (Lo) / 34 (Mute) |
| Auto Air Circulation | 2-Way Louver (Up-Down + Left-Right)                   |
| Dimensions (WDH)     | 43-1/4 in x 17-3/4 in x 7-1/8 in                      |
| Weight (lbs)         | 50.7                                                  |

**Matching Table (# Circuits Utilized)**

|            |                                                                             |
|------------|-----------------------------------------------------------------------------|
| 2-Circuits | (9000-24000) + (9000-24000)                                                 |
| 3-Circuits | (9000-24000) + (9000-24000)<br>+ (9000-18000)                               |
| 4-Circuits | (9000-24000) + (9000-18000)<br>+ (9000-12000) + (9000-12000)                |
| 5-Circuits | (9000-24000) + (9000-18000) + (9000-12000) +<br>(9000-12000) + (9000-12000) |

**Piping Diameters**

|                                                  |                                                     |
|--------------------------------------------------|-----------------------------------------------------|
| 9000 BTU                                         | 1/4 in (Liquid) - 3/8 in (Suction)                  |
| 12000 BTU                                        | 1/4 in (Liquid) - 3/8 in (Suction)                  |
| 18000 BTU                                        | 1/4 in (Liquid) - 1/2 in Adapter Required (Suction) |
| 24000 BTU                                        | 1/4 in (Liquid) - 5/8 in Adapter Required (Suction) |
| (All Necessary Adapters Provided with Condenser) |                                                     |

Although very seldom, if the total demand from the combined group of indoor units' exceeds the rated capacity of the outdoor unit, the capacity of each indoor unit will be annotated accordingly.

Every indoor unit attached to a multi zone system will operate at a random, self regulated capacity, based on the actual demand it measures from the zone it is serving

(Between 30% to 100% of its rated capacity) or turn off as needed.

### Warranty Information and Length



Complete warranty details are available with the vendor or online at <https://www.pdhvac.com/support/warranty/>. This high quality system is eligible for up to **10** years limited warranty on the compressor, and **7** years on other internal parts. To qualify for this warranty, the system must be installed within 90 days by a registered technician. All other installations that are registered default to **5** years parts/compressor. Products unregistered qualify for only **1** year parts/compressor warranty.

### Outstanding Features

- LED Display
- Energy Saving
- Ultra-Thin Design
- Dual Drain Options
- Customizable Timer
- Eco-Friendly Refrigerant
- Whisper-Quiet Operation
- Power Loss Memory Recovery



### Available Accessories

| Part Number      | Description                                |
|------------------|--------------------------------------------|
| IKT-LCVR4P-KIT   | <i>Decorative PVC Line Cover Kit</i>       |
| IKT-LNBR-1/4-3/8 | <i>BendAid Flexible Easy Bender Kit</i>    |
| BRK-FRM-C-2P     | <i>Folding Mounting Bracket w/ Leveler</i> |
| IKT-UVL32UL-AG   | <i>UVC Bacterial Disinfection Kit</i>      |
| IKT-SURPRK-DV2   | <i>Ultimate Surge and Power Protection</i> |