



## Submittal Data Sheet: VRUO-4860HP-U2B(54)

### OUTDOOR UNIT

#### Efficient Heating Down to -22 °F

Replaces Gas Furnace and  
A-coil systems



VRUO-4860HP-U2B(54)

**IDU Works with all Major Brand  
Air Handlers**

### ACCESSORIES

- ☐ MOUNTING BRACKETS
- ☐ FOOT RISERS
- ☐ COPPER/WIRE/ACC.SET
- ☐ LINESET COVERS
- ☐ WINTER WIND BAFFLE

| Model                      |             | VRUO-4860HP-U2B(54) |                                       |
|----------------------------|-------------|---------------------|---------------------------------------|
| Dimensions                 |             |                     |                                       |
| Outline dimensions (W×D×H) |             | in.                 | 39.37"×14.57"×53.74"                  |
| Package dimensions (W×D×H) |             | in.                 | 45.39"×19.41"×59.25"                  |
| Weight                     |             |                     |                                       |
| Net Weight                 |             | lbs.                | 308.65                                |
| Gross Weight               |             | lbs.                | 337.31                                |
| Connection Pipe            |             |                     |                                       |
| Valve Connection Type      |             | -                   | Screw Connection or Solder Connection |
| Length                     |             | ft.                 | 25                                    |
| Gas additional charge      |             | g/m                 | 0.3225                                |
| Outer Diameter             | Liquid Pipe | in.                 | 3/8"                                  |
|                            | Gas Pipe    | in.                 | 3/4"                                  |
| Max Distance               | Height      | ft.                 | 50'                                   |
|                            | Length      | ft.                 | 100'                                  |

|                       |  |                        |  |
|-----------------------|--|------------------------|--|
| Job Name:             |  | Tag #:                 |  |
| Location              |  | Date:                  |  |
| General Contractor:   |  | Mechanical Contractor: |  |
| Sales Representative: |  | Sales Engineer:        |  |
| Submitted by:         |  | Drawing #:             |  |
| Reference             |  | PO #:                  |  |

The (54)1 Series outdoor condensing unit can heat down to -22 °F at 80% efficiency, and has a 18 SEER rating with a 48k/60k Btu/h capacity that works with any major brand air handler central air system. Output is set using dip switches. The (54)1 requires 208-230v, 1 phase, 60Hz power supply. Its compact design allows for installation on the ground, on a wall, or under a deck or a balcony.

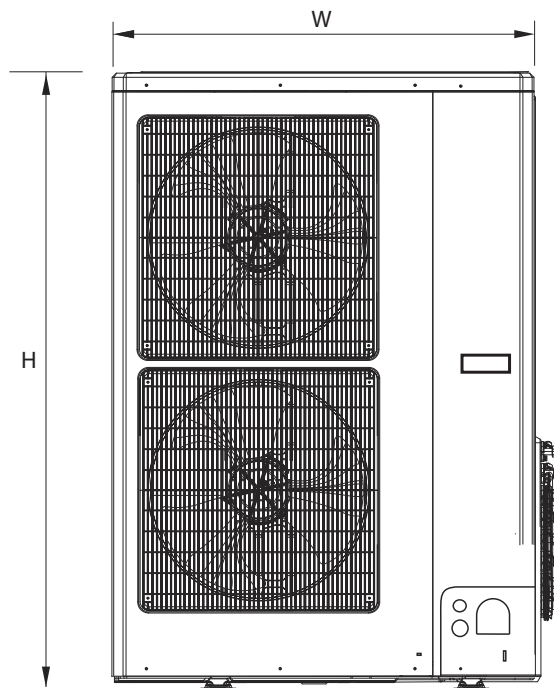
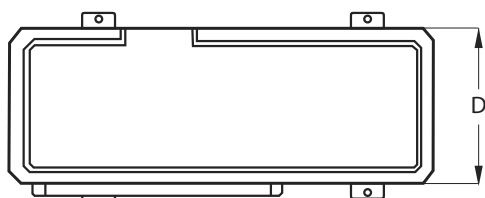
| Model   |                               |         | VRUO-4860HP-U2B(54)                     |   |
|---|-------------------------------|---------|---|---|
| Indoor Unit   | Type                          |         | Airhandler                              |   |
| Total Capacity  | Cooling                       |         | Btu/h                                   | 48000 / 60000 (output set by dipswitches) |
|   | Heating                       |         | Btu/h                                   | 48000 / 60000 (output set by dipswitches) |
| EER / C.O.P   |                               |         | Btu/h.W                                 | 11.00/12.28                               |
| SEER / HSPF   |                               |         | Btu/h.W                                 | 18.00/10.50                               |
| Energy Class  |                               |         | -                                       | /   |
| Electrical Data   | Power supply                  |         | V-Hz-Ph                                 | 208/230-60-1                              |
|   | Power input1                  | Cooling | kW                                      | 4.36                                      |
|   |                               | Heating | kW                                      | 3.91                                      |
|   | Rated Power input2            | Cooling | kW                                      | 6.40                                      |
|   |                               | Heating | kW                                      | 6.80                                      |
|   | Input current1                | Cooling | A                                       | 18  |
|   |                               | Heating | A                                       | 18  |
|   | Rated current2                | Cooling | A                                       | 30  |
|   |                               | Heating | A                                       | 31  |
| Max. Overcurrent Protection                                     |                               | A       | 45                                      |   |
| Min/Max Voltage   |                               | v       | 187/253                                 |   |
| Sound Pressure Level (H/M/L)*                                   |                               |         | dB (A)                                  | 58  |
| Sound Power Level (H/M/L)*                                      |                               |         | dB (A)                                  | 68  |
| Refrigerant   | R410A Charge                  |         | oz                                      | 220.46                                    |
|   | Throttling Method             |         | Electronic Expansion Valve              |   |
| Compressor  | Manufacturer                  |         | Gree                                    |   |
|   | Model                         |         | - QXAU-F516zX440A                       |   |
|   | Type                          |         | - Inverter Rotary                       |   |
|   | Quantity                      |         | - 1                                     |   |
|   | Capacity                      |         | W                                       | 17800                                     |
|   | Power Input                   |         | W                                       | 6000                                      |
|   | Run Capacitor                 |         | µF(MFD)                                 | /   |
|   | Rated Load Amp (RLA)          |         | A                                       | 13  |
|   | Locked rotor Amp (L.R.A)      |         | A                                       | /   |
|   | Thermal protector             |         | -                                       | Internal                                  |
|   | Crankcase                     |         | W                                       | 40  |
|   | Refrigerant oil               |         | Type                                    | - FW68DA or equivalent                    |
| Charge Volume   |                               |         | L                                       | 1.35                                      |
| Air Flow Volume   |                               |         | CFM                                     | 4700                                      |
| Fan Motor   | Model                         |         | - SWZ150D                               |   |
|   | Drive Type                    |         | - Direct Drive                          |   |
|   | Speed (H/M/L)*                |         | rpm                                     | 800                                       |
|   | Power Output                  |         | HP                                      | 1/5 x 2                                   |
|   | Full Load Amp(FLA)            |         | A                                       | /   |
|   | Insulation class              |         | -                                       | B   |
|   | Safe class                    |         | -                                       | IP44                                      |
| Capacitor   |                               | uF      | /                                       |   |
| Fan   | Quantity / Type               |         | -                                       | 2 / Axial-flow                            |
|   | Diameter   Height             |         | inch                                    | Ø20.47   6                                |
| Condenser   | Material                      |         | - Inner Groove Copper Tube-Aluminum Fin |   |
|   | Face Area                     |         | sq.ft                                   | 1.7                                       |
|   | Pipe Diameter                 |         | in.                                     | Ø5/16"                                    |
|   | Number of rows                |         | 3                                       |   |
|   | Tube pitch(a)x row pitch(b)   |         | mm                                      | 22x19.05                                  |
|   | Fins per Inch(FPI) / Fin type |         | -                                       | 17 / Ripple                               |
|   | Number of circuits            |         | -                                       | 9   |
| Length(L) x Height(H) x Width(W)                                |                               | in      | 37.95" x 51.97" x 2.25"                 |   |
| Permissible Excessive Operating Pressure for the Discharge Side |                               |         | PSIG                                    | 550                                       |
| Permissible Excessive Operating Pressure for the Suction Side   |                               |         | PSIG                                    | 250                                       |
| Operation temp  | Cooling                       |         | °F                                      | 5 °F ~129.2 °F                            |
|   | Heating                       |         | °F                                      | -22 °F ~75.2 °F                           |
| Defrosting Method   |                               |         | -                                       | Automatic Defrosting                      |
| Isolation   |                               |         | -                                       | I   |
| Moisture Protection   |                               |         | -                                       | IPX4                                      |
| Overload Protector  |                               |         | -                                       | /   |



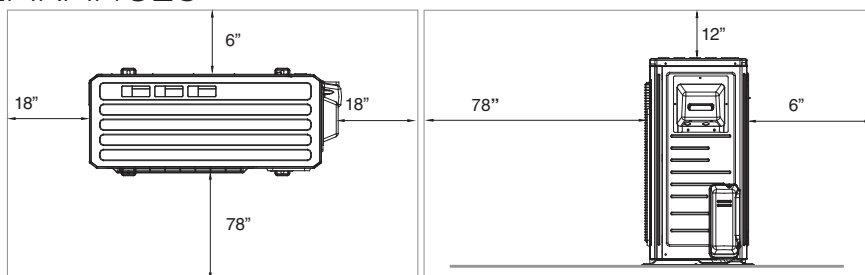
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## OUTDOOR UNIT

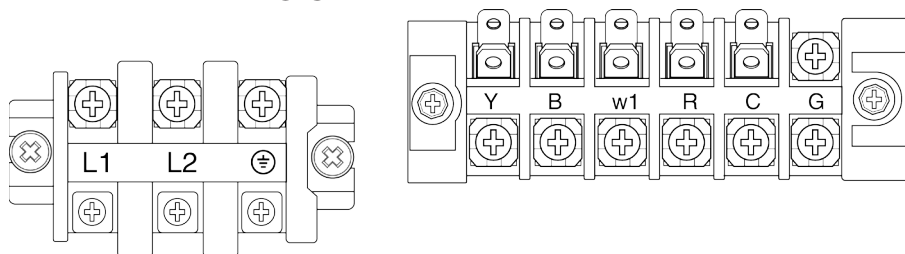
| Dimensions (inches) |        |
|---------------------|--------|
| W                   | 39.37" |
| H                   | 53.74" |
| D                   | 14.57" |



## CLEARANCES



## TERMINAL BLOCK



## FEATURES

- Heats down to -31 °F
- 208-230/1/60 power input
- Can be used with any major brand air handler
- DC Inverter technology
- Wide working ambient temperature ranges
- Compact outdoor unit with side discharge
- Quiet and efficient heating & cooling.

- 10 Year Warranty on Compressor
- 5 Year Warranty on parts
- Outdoor unit ships pre-charged.
- High quality compressors
- Durable powder coated cabinet
- Standard flare brass connection valves
- Built to ETL/UL/CSA/AHRI standards
- Easy installation and maintenance

### YMGI Group

601 Arrow Ln, O'Fallon, Missouri 63366

Phone: 1-866-833-3138

Fax: 1-866-377-3355

ymgigroup.com

sales@ymgigroup.com

Sales Representative or Distributor: