

Date:

For:

File

Resubmit

Approval

Other

PO No.:

Architect:

GC:

Engr:

Mech:

Rep:

(Company)

(Project Manager)



PRHR034C

R32 Multi V™ Heat Recovery Unit with Shutoff Valve (3 Port)

|                                                                                        |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
|----------------------------------------------------------------------------------------|------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| General:                                                                               |                        | Sound:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |
| Maximum Port Capacity Btu/h (each port)                                                | 60,000                 | Sound Pressure: Cooling Mode (dB(A))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 31 |
| Maximum Unit Capacity Btu/h (sum of ports)                                             | 180,000                | Sound Pressure: Heating Mode (dB(A))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 31 |
| Number of Indoor Unit Ports                                                            | 3                      | Sound Pressure: Simultaneous (dB(A))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 38 |
| Max. Connectable Number of Indoor Units per Branch                                     | 8                      | Sound Pressure: Changeover Cooling to Heating (dB(A))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 33 |
| Max. Number of Indoor Units                                                            | 24                     | Sound Pressure: Changeover Heating to Cooling (dB(A))                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 38 |
| Frame Material                                                                         | Galvanized Steel Plate | Heat Recovery Unit Enclosure Ventilation Requirements:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |
| Electrical Characteristics:                                                            |                        | <ul style="list-style-type: none"><li>Ventilation airflow rate must be higher than 11.1 CFM.</li><li>Internal negative pressure must be higher than 20 Pa (0.0029 psi).</li></ul> Note: Internal static pressure drop and required ventilation CFM fan curve values can be referenced in the Installation and Engineering Manuals.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |    |
| Power Input (Cooling) (W)                                                              | 49.2                   | Features:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |    |
| Power Input (Heating) (W)                                                              | 46.6                   | <ul style="list-style-type: none"><li>Allows connected indoor units to be in cooling/heating mode simultaneously.</li><li>Internal components are insulated.</li><li>External casing insulation is not needed.</li><li>Includes high pressure vapor pipe strainer accessory.</li><li>Factory installed indoor unit vapor pipe strainers.</li><li>Series or parallel connection with additional heat recovery units.</li><li>Flexible placement for service access or pipe routing.</li><li>Access panels: Top panel for EEV heads, Rear panel for control / access, Bottom panel for refrigerant circuit.</li><li>Includes R32 shutoff valves.</li><li>Includes R32 refrigerant leak sensor.</li><li>Includes knockouts for mechanical ventilation.</li><li>Includes 24V contact output for ventilation accessories.</li></ul>                                                                                                                                                                                                                                                                                 |    |
| Rated Amps (A)                                                                         | 0.38                   | Notes:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |    |
| Power Supply (V,HZ,PH)                                                                 | 208-230/60/1           | <ol style="list-style-type: none"><li>Each port can allow up to 8 indoor units with a maximum capacity of 60 MBh per port.</li><li>Multiple units installed on the same heat recovery port must operate in the same mode. Auto-changeover or Mode override is not possible.</li><li>Power wiring is field provided and must comply with the applicable local and national codes.</li><li>All refrigerant piping requires insulation.</li><li>Communication cable between Main outdoor units to indoor units/ heat recovery units to be 18 AWG, 2-conductor, twisted, stranded, shielded. Ensure the communication cable shield is properly grounded to the Main outdoor unit chassis only. Do not ground the outdoor unit to indoor units / heat recovery units communication cable at any other point. Wiring must comply with all applicable local and national codes.</li><li>Kit components must be kept dry and free of debris before installation.</li><li>This unit comes with a dry nitrogen charge.</li><li>Must follow installation instructions in the applicable LG installation manual.</li></ol> |    |
| Refrigeration:                                                                         |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Liquid Piping Size (in.)                                                               | 3/8 – 1/4              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Vapor Piping Size (in.)                                                                | 5/8 – 1/2              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Piping / Connections for Heat Recovery Operation: Liquid Line (in., O.D.)              | 1/2                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Piping / Connections for Heat Recovery Operation: Low Pressure Vapor Line (in., O.D.)  | 1-1/8                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Piping / Connections for Heat Recovery Operation: High Pressure Vapor Line (in., O.D.) | 7/8                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Refrigerant Type                                                                       | R32                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Refrigerant Control                                                                    | EEV                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Weight:                                                                                |                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Unit Net Weight (lbs)                                                                  | 61.5                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |
| Unit Shipping Weight (lbs)                                                             | 79.4                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |    |



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