Job Name/Location: **Tag No.:**

Date: **For:** ☐ File ☐ Resubmit ☐ Approval ☐ Other _____

PO No.:

Architect: **GC:**

Engr: **Mech:**

Rep:
(Company) (Project Manager)



PRHR044C
R32 Multi V™ Heat Recovery Unit with Shutoff Valve (4 Port)

General:

Maximum Port Capacity Btu/h (each port)	60,000
Maximum Unit Capacity Btu/h (sum of ports)	230,000
Number of Indoor Unit Ports	4
Max. Connectable Number of Indoor Units per Branch	8
Max. Number of Indoor Units	32
Frame Material	Galvanized Steel Plate

Electrical Characteristics:

Power Input (Cooling) (W)	54.2
Power Input (Heating) (W)	51.6
Rated Amps (A)	0.38
Power Supply (V,Hz,PH)	208-230/60/1

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.)	5/8
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

Weight:

Unit Net Weight (lbs)	68.1
Unit Shipping Weight (lbs)	86

Sound:

Sound Pressure: Cooling Mode (dB(A))	31
Sound Pressure: Heating Mode (dB(A))	31
Sound Pressure: Simultaneous (dB(A))	38
Sound Pressure: Changeover Cooling to Heating (dB(A))	33
Sound Pressure: Changeover Heating to Cooling (dB(A))	38

Heat Recovery Unit Enclosure Ventilation Requirements:

- Ventilation airflow rate must be higher than 11.1 CFM.
- Internal negative pressure must be higher than 20 Pa (0.0029 psi).

Note: Internal static pressure drop and required ventilation CFM fan curve values can be referenced in the Installation and Engineering Manuals.

Features:

- Allows connected indoor units to be in cooling/heating mode simultaneously.
- Internal components are insulated.
- External casing insulation is not needed.
- Includes high pressure vapor pipe strainer accessory.
- Factory installed indoor unit vapor pipe strainers.
- Series or parallel connection with additional heat recovery units.
- Flexible placement for service access or pipe routing.
- Access panels: Top panel for EEV heads, Rear panel for control / access, Bottom panel for refrigerant circuit.
- Includes R32 shutoff valves.
- Includes R32 refrigerant leak sensor.
- Includes knockouts for mechanical ventilation; shipped with flange accessory for duct connection.
- Includes 24V contact output for ventilation accessories.

Notes:

1. Each port can allow up to 8 indoor units with a maximum capacity of 60 MBh per port.
2. Multiple units installed on the same heat recovery port must operate in the same mode. Auto-changeover or Mode override is not possible.
3. Power wiring is field provided and must comply with the applicable local and national codes.
4. All refrigerant piping requires insulation.
5. 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.
6. Kit components must be kept dry and free of debris before installation.
7. This unit comes with a dry nitrogen charge.
8. Must follow installation instructions in the applicable LG installation manual.

Intertek

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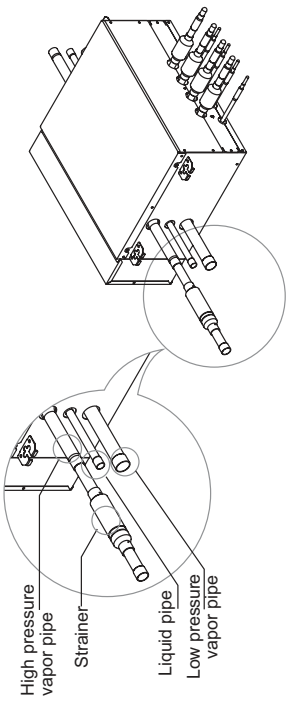
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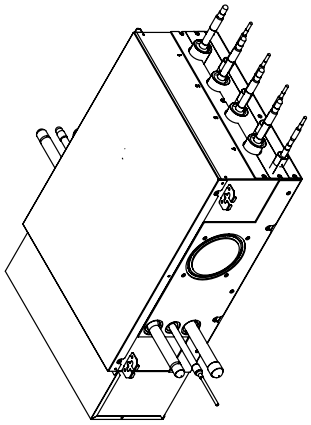
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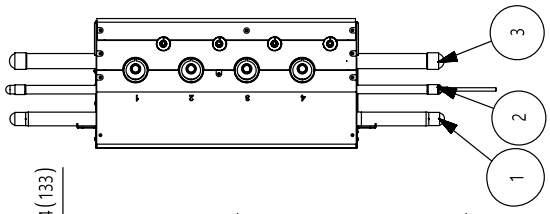
Two Port:
Strainers are factory installed on the indoor unit vapor piping.

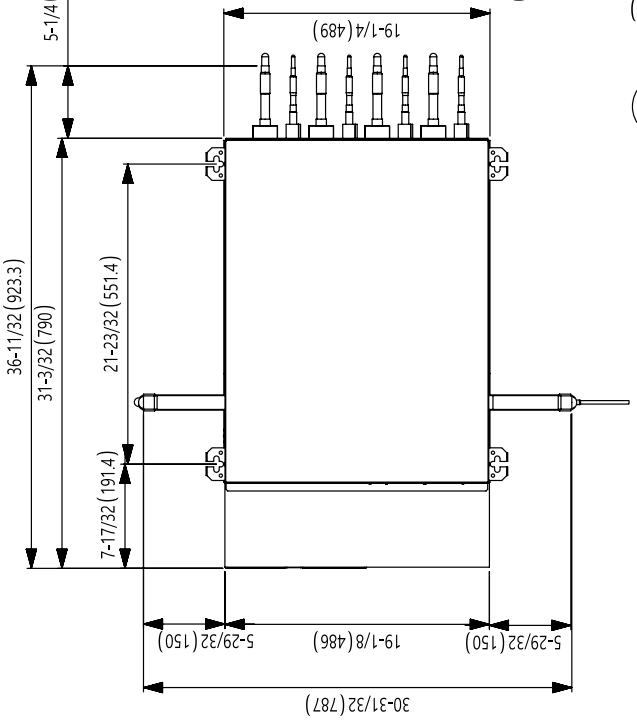
Three and Four Port:
– Connect the strainer that is provided as an accessory to the HRU high pressure vapor pipe.
– Strainers are factory installed on the indoor unit vapor piping.

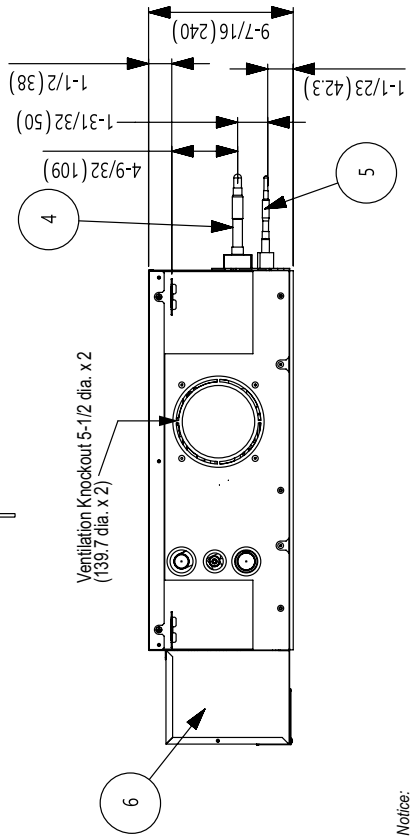




No.	Part Name	Description	2 Port	3 Port	4 Port
6	Control box	–	–		
5	Liquid pipe to Indoor unit	Ø 3/8 (9.52)– Ø 1/4 (6.35)			
4	Vapor pipe to Indoor unit	Ø 5/8 (15.88)– Ø 1/2 (12.7)			
3	Low Pressure Vapor Pipe	Ø 7/8 (22.2)	Ø 1-1/8 (28.58)		Ø 1-1/8 (28.58)
2	Liquid pipe to Outdoor unit	Ø 3/8 (9.52)	Ø 1/2 (12.7)		Ø 5/8 (15.88)
1	High Pressure Vapor Pipe	Ø 3/4 (19.05)	Ø 7/8 (22.2)		Ø 7/8 (22.2)







Heat Recovery Unit (Unit: Inch [mm])
PRHR024C, PRHR034C, PRHR044C

Notice:
1. Unit should be installed in compliance with the appropriate LG installation manual.
2. Unit should be grounded in accordance with local regulations and / or applicable national codes.
3. All field supplied electrical components and materials must comply with local regulations and / or national codes.

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