



Heat Transfer Products Group, LLC
 A Division of Rheem Manufacturing
 201 Thomas French Drive
 Scottsboro, Alabama 35769

Date: 10 October 2024

SUBJECT: Wind Load Analysis of HTPG ½ to 3½ HP Multi-Refrigerant Package Units

The following wind load analysis applies to all HTPG Multi-Refrigerant Package Units using the following nomenclature description:

| | | | | | | | |
|----------|----------|----------|------------|----------|-----------|----------|----------|
| R | P | O | 150 | M | 48 | D | A |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

The listings below are the positions for the model with a brief explanation.

- 1 **Branding:** R Russell W Witt K Kramer C ColdZone H HTPG ? Other brands may use single letter code or asterisk “*”
- 2 **Product Type:** P Package Refrigeration System
- 3 **Compressor Type:** H Hermetic O Scroll
- 4 **Horsepower:** XXX Three numbers roughly equal to compressor horsepower times 100
- 5 **Temperature Range:** L Low Temp M Medium Temp D Medium Temp Electric Defrost
- 6 **Refrigerant Type:** 44 R404A 48 R448A or R449A 4S compressor is rated for all refrigerants.
4A A2L Refrigerants R454A/R454B/R454C/R455A/R32
- 8 **Voltage/Phase/Frequency Code:** A 115/1/60 C 230/1/60 D 208-230/1/60
- 9 **Revision Code:** Starting with letter A

The wind load analysis has determined these multi-refrigerant air cooled condensing units are in accordance with ASCE/SEI 7-22, Florida Building Code Eighth Edition (2023) for the following location:

Installation location: Miami – Dade County, Florida

Installation Height: 60 feet

| Roof Mounting Requirement | | | | |
|----------------------------------|------------------------------------|---|---|--|
| Cabinet Size | Number of Attachment Points | Max. Force at Each Attachment Point | | Max Unit, Hurricane Net Overturning Moment (lbs.ft) |
| | | Hurricane Tension, Net Uplift Load (lbs) | Hurricane Shear, Horizontal Load (lbs) | |
| Small | 6 | 480 | 169 | 2,018 |
| Small w/ Roof Acc. | 6 | 806 | 213 | 3,405 |
| Large | 6 | 483 | 169 | 2,384 |
| Large w/ Roof Acc. | 6 | 805 | 218 | 3,995 |

Using a roof curb to install these condensing units requires a metal mounting surface with stand details to be provided by the selected mechanical contractor at the job site.

