



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 6HP Multi-Refrigerant Air Cooled Condensing Units**

The following wind load analysis applies to all HTPG ½ to 6 HP Multi-Refrigerant Air-Cooled Condensing Units using the following nomenclature description:

<b>R</b>	<b>F</b>	<b>O</b>	<b>N</b>	<b>500</b>	<b>M</b>	<b>48</b>	<b>C</b>	<b>A</b>
1	2	3	4	5	6	7	8	9

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 **Condenser and Control Type:** B No Flooded Condenser Control ( Indoor or Warm Climate Outdoor) F Flooded Condenser Control (Outdoor)  
W Water Cooled Condenser R Remote Compressor Unit S Sierra (Special Condenser Outdoor)
- 3 **Compressor Type:** H Hermetic S Semi-Hermetic O Scroll
- 4 **Compressor Configuration:** N Single - Horizontal Small
- 5 **Nominal Size:** XXX Three numbers roughly equal to compressor horsepower times 100
- 6 **Temperature Range:** L Low Temp M Medium Temp E Extended Temp
- 7 **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:** C 230/1/60 D 208-230/1/60 E 208-230/3/60 G 460/3/60 V 208/3/60 W 230/3/60 Q 575/3/60
- 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

<b>Roof Mounting Requirement</b>				
<b>Cabinet Size</b>	<b>Number of Attachment Points</b>	<b>Max. Force at Each Attachment Point</b>		<b>Max Unit, Hurricane Net Overturning Moment (lbs.ft)</b>
		<b>Hurricane Tension, Net Uplift Load (lbs.)</b>	<b>Hurricane Shear, Horizontal Load (lbs.)</b>	
FM1	4	169	114	797
FM2	4	262	154	1,027
FM3	4	290	174	1,136
FM4	4	554	318	2,624

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.

