



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

Date: 09 August 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:

R	F	O	N	500	M	48	C	A
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
- 3 **Compressor Type:** H Hermetic S Semi-Hermetic O Scroll
- 4 **Refrigerant Type:** "Blank" Standard Refrigerant N A2L Refrigerant
- 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 (2024) 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.)	
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.

