



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 “3 TO 22 HP, Next-Gen II Series” Air Cooled Condensing Unit Models

The following wind load analysis applies to all 3 TO 22 HP HTPG “Next-Gen II Series” Air Cooled Condensing Units using the following model nomenclature:

R	F	D	T	03	M	4S	E	A
1	2	3	4	5	6	7	8	9

The listing below are the positions for the new 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)
- 3 **Compressor Type:** C Carlyle B Bitzer D Discus S Semi-Hermetic O Scroll
- 4 **Compressor Configuration:** S Series Single T Series Dual
- 5 **Nominal Size:** XX Two numbers roughly equal to compressor horsepower
- 6 **Temperature Range:** L Low M Medium E Extended Medium
- 7 **Refrigerant Type:** 44 R404A 48 R448A or R449A 4S compressor is rated for all refrigerants.
4A A2L Refrigerants R454A/R454B/R454C/R455A/R328
- 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 both single and dual series “Next-Gen II Series” 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)	
FD1	6	568	249	3,176
FD2	6	523	360	5,981
FD3	6	616	435	7,014

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.

