



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

Date: 19 December 2024

SUBJECT: Wind Load Analysis of HTPG Air Cooled Condenser Models

The following wind load analysis applies to all HTPG Air Cooled Condensers, Fluid Coolers, and Heat Reclaim Models using the following model nomenclature:

R	D	D	0	8	7	G	D	3
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
- 2 **Unit Type:** D Condenser F Fluid Cooler H Heat Reclaim
- 3 **Width:** D Double Wide S Single Wide
- 4-6 **Capacity:** MBTUH
- 7 **Voltage/Phase/Frequency Code:** E -208-230/3/60 F-460/1/60 G- 460/3/60 H- 575/1/60 J-575/3/60
M- 200-220/1/50 N- 200-220/3/50 P- 380/1/50 Q- 380/3/50 T- 380/3/60 X- Other
- 8 **Motor:** B, D, E, G, L, K
- 9 **Number of Fan Cells Long:** 1-7

The wind load analysis has determined the fan cells for both single and double wide air-cooled condensers are in accordance with ASCE/SEI 7-22, Florida Building Code Eighth Edition (2023) for the following location:

Installation location: Miami – Dade County, Florida

Air Cooled Condenser Roof Mounting Requirement						
Fan Cell #	Single Wide (yes or no)	Double Wide (yes or no)	# of Legs	Hurricane Uplift Load (lbs)	Hurricane Horizontal Load (lbs)	Hurricane Overturning Moment (in-lbs)
1	yes	no	2	662	133	4,779
2	yes	no	2	1,318	265	9,512
3	yes	no	3	1,968	265	14,200
4	yes	no	3	2,624	354	18,934
5	yes	no	4	1,968	332	23,667
6	yes	no	4	2,619	398	28,355
7	yes	no	5	2,620	371	33,089
4	no	yes	4	1,487	265	22,002
6	no	yes	6	2,225	265	32,910
8	no	yes	6	2,968	354	43,911
10	no	yes	8	2,227	332	54,912
12	no	yes	8	2,966	398	65,821
14	no	yes	10	2,967	371	76,822

