



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

Date: November 22, 2019

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 ? 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 7-10, Florida Building Code Sixth Edition (2017) for the following location and building height:

Installation location: Miami – Dade County, Florida **Installation Height:** 30 feet

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	360	990	57800
2	yes	no	2	715	1980	115600
3	yes	no	3	1070	2970	173400
4	yes	no	3	1430	3960	231200
5	yes	no	4	1785	4940	288990
6	yes	no	4	2140	5930	346800
7	yes	no	5	2500	6920	404600
2	no	yes	4	715	990	57800
4	no	yes	4	1430	1980	115600
6	no	yes	6	2140	2970	173400
8	no	yes	6	2860	3960	231200
10	no	yes	8	3570	4940	288990
12	no	yes	8	4280	5930	346800
14	no	yes	10	4990	6920	404600

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

