CERTIFICATE OF COMPLIANCE

WIND RESISTANT DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS

Certification No.

VMA-45193-10 (Revision 7)

Expiration Date: 11/30/2027

Certification Parameters:

The nonstructural products containing non-active components, listed on this certificate are CERTIFIED[1] FOR WIND APPLICATIONS in accordance with the following building code[3] releases.

IBC 2021, 2018, 2015, 2012, 2009, 2006

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-45193-10** as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

Trane; Custom AHU
PV Series

The above referenced non-active components equipment is **APPROVED** for wind application when properly installed[2], used as intended, and contains a Wind Certification Label referencing this Certificate of Compliance. Installations in essential facilities, for life safety applications, and/or of equipment containing hazardous contents are permitted and included in this certification with an Equipment Importance Factor assigned as I_P=1.15. The equipment is qualified by ISO Accredited Product Certification Agency, VMC Group via structural analysis of worst-case representative sample of certified product.

Certified Wind Resistant Design Levels				
Certified **IBC**	**Importance $I_P \leq 1.15$** Exposure Categories A-D Risk Categories I-IV	**V ≤ 164 mph**		**V ≤ 121 mph**
		z ≤ 15 ft		**z ≤ 500 ft**
		Pressure Basis[4]	$\frac{F_h}{A_f} = q_z G C_f =$	**67.0 lbs/ft²**

Certified Wind Resistant Installation Methods
Rigid Mounting from Unit Base to Rigid Structure

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Bloomingdale, NJ 07403
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Fax: 973.492.8430

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Certified Product Table:

Sizes	Max. Width [in.]	Max. Height [in.]	Max. Length [in.]	Wind Velocity @ Z ≤ 500 ft Exposure Category D
Custom	328	168	1080	121 mph

Level Comparison Tables:

IBC		2021, 2018			2009, 2006		
ASCE		7-16			7-05		
Exposure Category		B	C	D	B	C	D
Velocity[5] (mph)	Z ≤ 15 ft	221	181	164	206	168	153
	Z ≤ 500 ft	133	125	121	124	117	113

IBC		2015, 2012		
ASCE		7-10		
Exposure Category		B	C	D
Velocity[5] (mph)	Z ≤ 60 ft	EXCLUDED		
	60 ft ≤ Z ≤ 500 ft	133	125	121

VMA-45193-10C (Revision 07)
Issue Date: February 28, 2012
Revision Date: February 3, 2025
Expiration Date: November 30, 2027

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Notes and Comments:

1. The following building codes are addressed under this certification:

   IBC 2006 – referencing ASCE 7-05
   IBC 2009 – referencing ASCE 7-05
   IBC 2012 – referencing ASCE 7-10
   IBC 2015 – referencing ASCE 7-10
   IBC 2018 – referencing ASCE 7-16
   IBC 2021 – referencing ASCE 7-16

2. Refer to the manufacturer supplied installation drawings for anchor requirements and mounting considerations for wind applications. Required anchor locations, size, style, and load capacities (tension and shear) are specified on the installation drawings. Mounting requirement details such as anchor brand, type, embedment depth, edge spacing, anchor-to-anchor spacing, concrete strength, special inspection, wall design, and attachment to non-building structures must be outlined and approved by the Engineer of Record for the project or building. Structural walls, structural floors, and housekeeping pads must also be sufficiently designed and approved by the project or building Structural Engineer of Record to withstand the wind anchor loads as defined on the installation drawings. The installing contractor is responsible for observing the installation detailed in the wind installation drawings and the proper installation of all anchors and mounting hardware.

3. For this certificate to remain valid, it must correspond to the "Wind Certification Label" found affixed to the unit by the factory. The label ensures the manufacturer built the unit in conformance to the IBC wind design criteria set forth by the Product Certification Agency, The VMC Group, and meets the wind design levels claimed by this certificate.

4. The qualified wind design pressure stated is for the horizontal wind pressure for applications utilizing ASCE 7-16, for more detailed ranges of qualified wind design levels, sees the report cited on Page 1. This wind design pressure utilizes LRFD load combinations.

5. Design velocity (highlighted in yellow) was chosen based on the corresponding ASCE 7 wind map. Other velocities were derived from the design pressure resulting from the design velocity.

6. Mechanical, Electrical, and Plumbing connections to the equipment must be flexibly attached as to not transfer load through the connection. The structural integrity of any conduit, cable trays, piping, ductwork and/or flexible connections is the responsibility of others. This certification does not guarantee the equipment will remain compliant to UL or NEMA standards after a wind action.

7. This certificate applies to units manufactured at

   9900 Aire Circle, Fort Smith, Arkansas 72916

John P. Giuliano, PE
President, The VMC Group

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