



**VMC GROUP**  
THE POWER OF TOGETHER™



## CERTIFICATE OF COMPLIANCE

### WIND RESISTANT DESIGN OF NONSTRUCTURAL COMPONENTS AND SYSTEMS



Certification No.

**VMA-54288-02C (Revision 0)**

Expiration Date: 5/31/2028

#### Certification Parameters:

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

#### IBC 2021, 2018

The following model designations, options, and accessories are included in this certification. Reference report number **VMA-54288-02** as issued by VMC Group for a complete list of certified models, included accessories/options, and certified installation methods.

#### Trane; Air Cooled Chillers ACR; 150 – 500 Tons

The above referenced non-active components equipment is **APPROVED** for wind application when properly installed<sup>2</sup>, 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. The equipment is qualified by ISO Accredited Product Certification Agency, VMC Group via comparative analysis to successful seismic testing and detailed structural analysis.

#### Certified Wind Resistant Design Levels

Certified IBC	Exposure Categories B-D Risk Categories I-IV	For Exposure Category C:	
		V ≤ 116 mph V ≤ 52 m/s	V ≤ 80 mph V ≤ 36 m/s
		z ≤ 15 ft z ≤ 5 m	z ≤ 500 ft z ≤ 152 m
		Pressure Basis <sup>4</sup>	$\frac{F_h}{A_f} = q_z G C_f =$ <b>47.4 lbs/ft<sup>2</sup></b> 2.27 kPa

#### Certified Wind Resistant Installation Methods

Elastomeric Pad Base Mounting From Unit Base To Rigid Structure

**HEADQUARTERS**  
113 Main Street  
Bloomingdale, NJ 07403  
Phone: 973.838.1780  
Toll Free: 800.569.8423  
Fax: 973.492.8430

**CALIFORNIA**  
180 Promenade Circle  
Suite 300  
Sacramento, CA 95834  
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**TEXAS**  
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**TRANE®**

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#### Certified Product Table:

Model	Configuration	Max. Length [ in. ]	Max. Width [ in. ]	Max. Height [ in. ]	Material	Wind Velocity @ Z ≤ 15 ft Exposure Category C
ACR 150 – ACR 550	Standard	610	99	98	Grade 37 G90 Phosphatized Steel Base Frame	116 mph
	w/ Matrix Filter					
	w/ Direct Free Cooling w/ Direct Free Cooling and Matrix Filter					

IBC		2021, 2018		
ASCE		7-16		
Exposure Category		B	C	D
Velocity <sup>5</sup> (mph)	Z ≤ 15 ft	141	116	105
	Z = 200 ft	97	88	84
	Z ≤ 500 ft	85	80	77



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#### Notes and Comments:

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

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, see 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  
101 William White Blvd., Pueblo CO 81001
8. This project follows VMC Group's ISO-17065 Scheme for Product Certification of Nonstructural Components.

John P. Giuliano, PE  
President, The VMC Group



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