

AIR HANDLING UNIT SOLUTIONS FOR HURRICANE WEATHER

ClimateCraft Air Handling Units offer reliable solutions for High-Velocity Hurricane Zones (HVHZ) with the Miami-Dade certification. In accordance with FBC – Florida Building Code 2023 – 8th Edition with High Velocity Hurricane Zone HVHZ ClimateCraft units can supply HVAC solutions for building in the Risk Category of II, III, and IV.

Miami-Dade County enforces some of the most stringent building codes in the nation, particularly for

structures and equipment designed to withstand high-velocity hurricane winds. This is due to both the East and Gulf Coast’s exposure to Category 5 hurricanes, with wind speeds reaching up to 185 mph, causing catastrophic damage. IBC calculates wind speed at 3 - second gust in mile per hour at 33 feet (10 m) Above ground. To meet building requirements, air handling units require several tests, calculations, quality assurance, and material certification to receive Miami-Dade certification.

Saffir-Simpson Hurricane Wind Scale	Category 1	Category 2	Category 3	Category 4	Category 5
MPH	74-95	96-110	111-129	130-156	157+

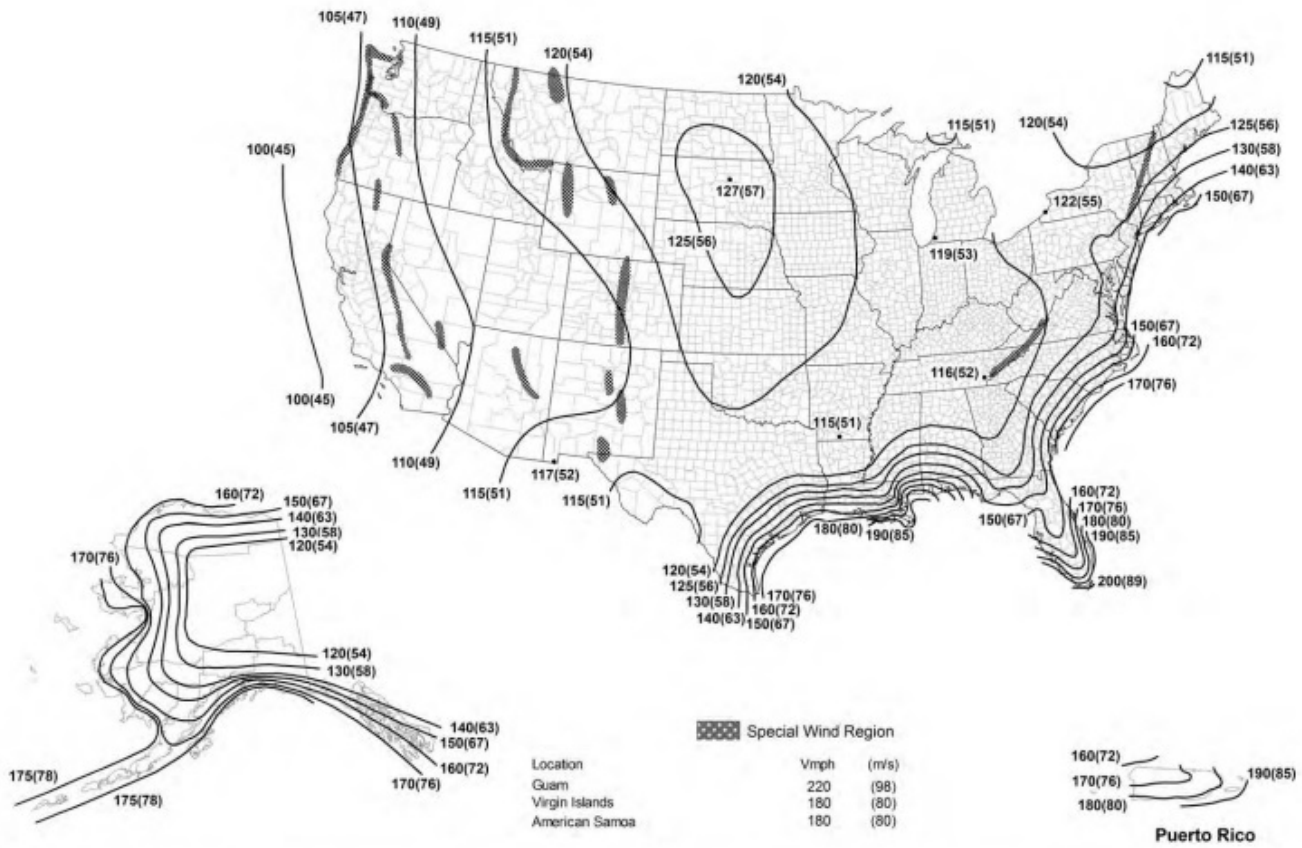
- Uniform static air static pressure testing TAS – (TAS-202)
- Cyclic wind pressure testing (TAS-203)
- Large and small missile impact test at High Velocity – 50ft/x (TAS-201)
- Fatigue loading test design load
- Air and water infiltration

ClimateCraft Air Handling Units (AHUs) with steel and aluminum panels are currently Miami-Dade certified to withstand pressures up to 95 PSF, which is equivalent to wind speeds of approximately 193 mph. The wind speed was calculated from the equation below where V = mph

$$PSF = 0.00256V^2$$

Companies	Material	Description	MDP+	MDP-
Daikin	Composite	Vision/Skyline Air Handling Unit	75	75
Trane	Steel	Trane Custom Climate Changer AHU	100	100
Trane	Composite	Trane Performance Climate Changer AHU	75	75
Johnson Controls	Steel	York Custom	80	80
Carrier Corporation	Steel	39M AHU Size 25-110	55	45
Carrier Corporation	Steel	39M AHU Size 3-21W	55	55
Haakon Industries	Steel	"Pentpak" Outdoor Style AHU	66	66
Haakon Industries	Steel	Pentpak Plus	110	110
Nortek	Steel	AHU Series ITF	135	135

2021 IBC Basic Design Wind Speeds, V, For Risk Category III Buildings and Other Structures



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