

Huracān™ Series

Forced Air Destratification Fans



Reznor® Huracan™ destratification fans are available in 4 sizes to support commercial and industrial spaces up to 60 feet in height. Huracan fans move warm air from the upper reaches of the space back to the floor using minimal energy improving overall building energy efficiency and occupant comfort. During heating season, this action minimizes the amount and cost of heat needed to satisfy occupant comfort or product safety by eliminating the natural stratification that occurs and directing heat already provided to the space back to lower levels. Dripping water and puddles on the floor caused by sweating at the roof can also be eliminated when that warm, humid air is mixed with the cooler, dry air near the floor. Huracan fans can reduce cooling load as well by providing a consistent yet gentle air flow during the heat of summer or warmer days during spring and fall. Integrated louvers and directional brackets enable directed airflow in unusual geometry spaces or around features that block airflow such as warehouse shelving.

Reznor Huracan destratification fans offer a sleek design sure to compliment any space. Huracan fans features a two-tone black and white coated, scratch-resistant paint scheme. Each unit has clean, rounded corners and edges with no visible screws or fasteners which enhances installer safety while providing superior appearance. The Huracan series physically match appearance and complement the full portfolio of Reznor heating products. They can be controlled independently or together with the gas, hydronic or electric unit heaters for optimized space temperature control. Every Huracan fan provides the same superior performance and reliability that Reznor customers have relied on for more than 100 years.

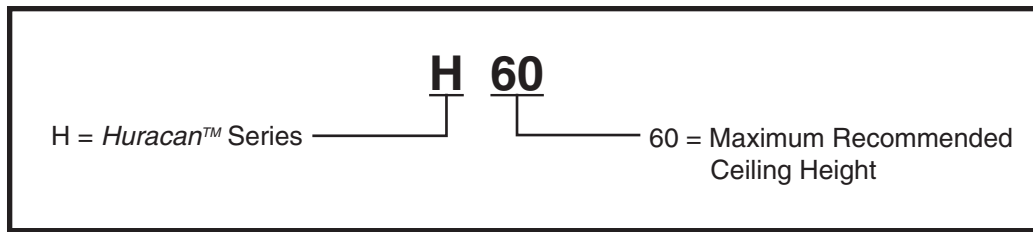
FEATURES and BENEFITS

- Reduces heat load and building energy efficiency by distributing existing space heat to all levels including the floor that is occupied
- Provide cooling air movement improving occupant comfort
- Suitable for use in spaces with 10 to 60 feet of height to effectively drive air to the floor
- Available in 4 sizes to optimize space performance and economics
- Available in 5 common lighting voltages from 115V to 277V for ease in installation and reduced wiring costs
- Models available that work interchangeably with 208/1, 230/1 and 240/1 voltages to simplify selection and stocking
- Easy hanging using provided brackets for field-provided threaded downrods
- Hard-mounting for improved safety compared to wire rope hung models
- Integrated louvers to direct air to improve destratification and occupant comfort
- Directional hanging brackets add multi-dimensional air direction control to optimize space air movement
- External 24V control wiring terminal strip for quick connection to thermostat
- Integrated control opportunities with Reznor unit heaters to optimize building efficiency
- Reznor Branding provided but may be eliminated for a clean appearance

OPTIONAL FEATURES

- Remote occupied/unoccupied (on/off) switch available for manual operation
- Multi-unit controls for zoning up to 5 units
- Internal temperature control so unit runs only when needed saving operating expense
- Single stage for simple temperature driven control
- Dual stage thermostat for use when coordinating unit heater and destratification operation to reduce operating expense
- BACnet linkable thermostat for Building Management System (BMS) integration
- Thermostat protection and mounting accessories

MODEL IDENTIFICATION CODE



TECHNICAL DATA

Parameter	Huracan Unit Size			
	25	35	50	60
Maximum ceiling height recommendation (feet)	25	35	50	60
Minimum ceiling height recommendation (feet)	10	18	25	30
Air volume (cfm)	650	1100	1500	2000
Air volume (meters ³ /min)	18.4	31.2	42.5	56.7
Recommended nominal floor area/fan (feet ²)	1000	1500	1500	2000
Recommended air volume/fan (feet ²)	25,000	52,500	75,000	120,000
Discharge air opening area (feet ²)	0.967	1.247	2.382	2.382
Discharge air opening area (meters ²)	0.090	0.116	0.221	0.221
Output velocity (fpm)	672	882	630	840
Output velocity (meters/minute)	205	269	192	256
Fan diameter (inches)	10	12	16	16
Fan motor size (horsepower)	0.03	0.06	1/15	1/6
Estimated Sound level (dba @ max. recommended height)	36	36	49	41
Full load amps				
Voltage/Phase/HZ				
115/1/60	0.5	1.0	0.9	1.3
208/1/60	0.2	0.4	0.4	0.8
230/1/60	0.2	0.4	0.4	0.9
240/1/60	0.3	0.4	0.4	1.0
277/1/60	0.2	0.3	0.3	0.8
Maximum overcurrent protection (amps)	15			

DIMENSIONS

Model	Height	Width	Depth
	Inches (mm)		
H25	14 (356)	27 (686)	12 (305)
H35	17 (432)		
H50, H60	25 (635)		

WEIGHTS

Model			
H25	H35	H50	H60
Pounds (kg)			
22 (10)	28 (13)	38 (18)	43 (20)

FAN SELECTION HEATING and COOLING NEEDS

- Choose the appropriate model based on the maximum ceiling height of the space to be destratified.
 - See the Technical Specification Table for recommended maximum and minimum ceiling height. Each model has a recommended ceiling height range (minimum and maximum provided).
Example: 30 ft maximum ceiling height in the space. This falls within the range of 18-35 ft which corresponds to the H35 model.
- Determine the floor area in square feet.
 - Typically, the area is calculated by multiplying the length by the width.
 - Unique space layout may require breaking the space into logical smaller geometric shapes and calculating area for each.
Example: Space length is 70 feet and width 50 feet. 70 feet * 50 feet = 3,500 square feet.
- Calculate the number of fans needed to properly destratify the space during heating season (1 complete air-turn per hour minimum)
 - Calculate the number of fans by dividing the floor area by the recommended nominal flow area for the model determined in step 1.
 - See the Technical Specification Table for the model-specific recommended nominal flow area.
Example: Per the Technical Specification Table the nominal flow area for the H35 model is 1,500 square feet. 3,500 square feet/1,500 square feet per Hurricane fan = 2.33 fans. This indicates 3 fans is needed to ensure proper destratification.
 - Calculate the number of fans based on space volume.
 - Calculate the space volume by multiplying the maximum ceiling height by the floor area.
Example: 30 feet ceiling x 3,500 square feet floor space = 105,000 cubic feet.
 - Calculate the number of fans required by dividing the space volume (cubic feet) by the recommended air volume/fan
Example: 105,000 cubic feet/ 52,500 cubic feet/fan = 2.0 fans
 - Select the lowest number of fans calculated above unless additional air movement is desired.
- If cooling air movement is the primary need, then best results are obtained if the number of fans is increased up to double of the calculations for heating. In the example, this means raising the fan number to 3 or 4 fans depending on total airflow desired.



For complete catalog information including submittals, energy calculations, dimension drawings, and more go to www.ReznorHVAC.com or call 800-695-1901.

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Note: In keeping with our policy of continuous product improvement, we reserve the right to alter, at any time, the design, construction, dimensions, weights, etc., of equipment information shown here.

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