



The new, innovative **Z-TECH™ FAN** helps even the hottest employees keep their cool. How? Go Fan Yourself® combined cutting-edge patent-pending technology with a modern industrial design to provide the largest coverage area in the industry and a cooling effect of up to 10 degrees. Different is cool®.

Features

Blade & Hub Design

- Patent-pending Z-Tech™ blade design with 20° plus pitch
- Symmetrical Z-Tech™ blade design allows for true reversibility for year-round operation
- Pitched hub design with same 20° plus pitch as blade
- Designer series offers custom color combinations and designs

Motor

- NORD™ motor utilizes cast iron housing with a precise shaft and gear alignment that has a high load bearing capacity
- Single housing block in which all bearing points are integrated. No sealing faces are subjected to torque or lateral forces
- IP55; UL 1004; 120/230/460/575v; single and three phase available

Controller

- Open-platform ABB™ controller
- NEMA 4X; IP66/67 variable frequency drive
- ESFR (Early Suppression Fast Response) and ROHS compliant
- NECA standard built-in LOTO (lock out, tag out) disconnect

Installation

- Suitable for mounting to I-beam, top or bottom chord angle iron, L-bracket and Z-purlin; multiple installation applications available

Benefits

Blade & Hub Design

- Moves air at 425,000 CFM (cubic feet per min)
- Increases coverage area up to 30% compared to other HVLS fans
- No wind chill created when using Z-Tech™ fan in reverse operation
- Up to 40K sq ft destratification coverage; reduces energy heating costs
- Eliminates air-flow dead zone under the fan
- Ability to customize Z-Tech™ fan to best compliment your facility

Motor

- Autovent prevents bearing and gear damage by utilizing cleaner gearbox oil with an extended lubrication life and longer lasting seals, gears and bearings.
- Quadralip sealing provides superior protection against leaks and contaminants

Controller

- Steamline building management systems
- Largest heat sink in the industry
- Easy +24 VDC connection to existing alarm systems
- Control up to 26 fans from a single controller

Installation

- Safety ring: ¼" powder coated steel
- Safety cables: 5/16" stainless steel aircraft cable
- Guy wires: 1/8" stainless steel aircraft cable (with down tubes 4ft<)
- Lifetime warranty: blades, hub and mounting system
- 15-year warranty: motor, gearbox and hub

WHAT IS Z-TECH™

The patent-pending Z-Tech™ stepped blade is an enhanced form of venting and venting creates better air displacement.

The stepped blade allows the velocity of air flow to move past the steps at which point the pressure immediately decreases allowing for a significant increase in thrust and air movement.



HOW TO SIZE A Z-TECH™ FAN FOR YOUR FACILITY

Fan Diameter	Coverage Area (Cooling)	Coverage Area (Destratification)	Spacing Between Fans	Minimum Spacing From Wall	Clearance Needed From Ceiling	Minimum Blade Height
8 FOOT	60 FT	80 FT	50 FT	8 FT	3 FT	10 FT
12 FOOT	90 FT	120 FT	80 FT	12 FT	3 FT	10 FT
16 FOOT	130 FT	160 FT	110 FT	16 FT	4 FT	12 FT
20 FOOT	150 FT	200 FT	140 FT	20 FT	5 FT	16 FT
24 FOOT	180 FT	240 FT	170 FT	24 FT	5 FT	20 FT

Additional Specifications:

- Maintain a minimum 2 FT clearance from tip of blade to obstructions
- Maintain a minimum 2 FT below truss with any fan diameter
- Location of fan should maintain a minimum of 20 FT away from a heat source
- Location of fan should maintain a minimum of 20 FT away from any exhaust fans
- Lights to be spaced 2 FT or greater away from the tip of the fan blade to prevent shadowing and strobe effect