



Z-CHILL™ FAN & DIFFUSER SYSTEM is a breakthrough, patented system designed to effectively spot cool or heat the unconditioned space within a facility by dispersing conditioned air and/or forced heat evenly over the **Z-Tech™** fan blades to provide companies an economical spot cooling and heating system to keep businesses operating at their highest level.

Different is cool®.

Features

Blade & Hub Design

- Patented **Z-Tech™** blade design with 20° plus pitch
- Cast hub eliminates hardware connections for the safest, most reliable solution available.
- 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
- Blades supported by the full width of the blade unlike airfoil designs that support the airfoil with a narrow post.

Motor

- **ABB** Dodge Quantis **Z-Tech** Drive Train
- H insulation provides a 140° ambient temperature rating
- Viton sealing system protects the gear box
- IP55; Optional voltages available:
- 200-240VAC 1 Phase
- 200-240VAC & 380-480VAC 3 Phase

Diffuser

- Patented design tailored to the design of the **Z-Tech™** blade technology

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

- Increases coverage area up to 30% compared to HVLS fans
- No wind chill created when using **Z-Tech™** fan in reverse operation
- Over 45K 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

Controller

- Steamline building management system integration
- Largest heat sink in the industry
- Easy +24 VDC connection to existing alarm systems
- Control up to 25 fans from a single controller (controllers are interlinked by a hard-wire connection so fan control signals are daisy-chained through the fan system).
- Keypad may be removed from the face of the controller and wall or column mounted via CAT6 cable (ACS355 controller only).

Diffuser

- Even air or heat distribution across all 5 **Z-Tech™** blades
- Internal insulation to prevent/minimize condensation on outside of diffuser; configured for 16" round ducting
- Maximum 20 ton capacity

Installation

- Safety ring: ¼" powder coated steel
- **Z-Tech™ SS** safety system provides (2) custom straps with a break strength of 16,000lbs each which easily exceeds traditional 5/16" steel aircraft cable of around 10,000lbs
- Lifetime warranty: blades, hub and mounting system
- 15-year warranty: motor, gearbox and hub

