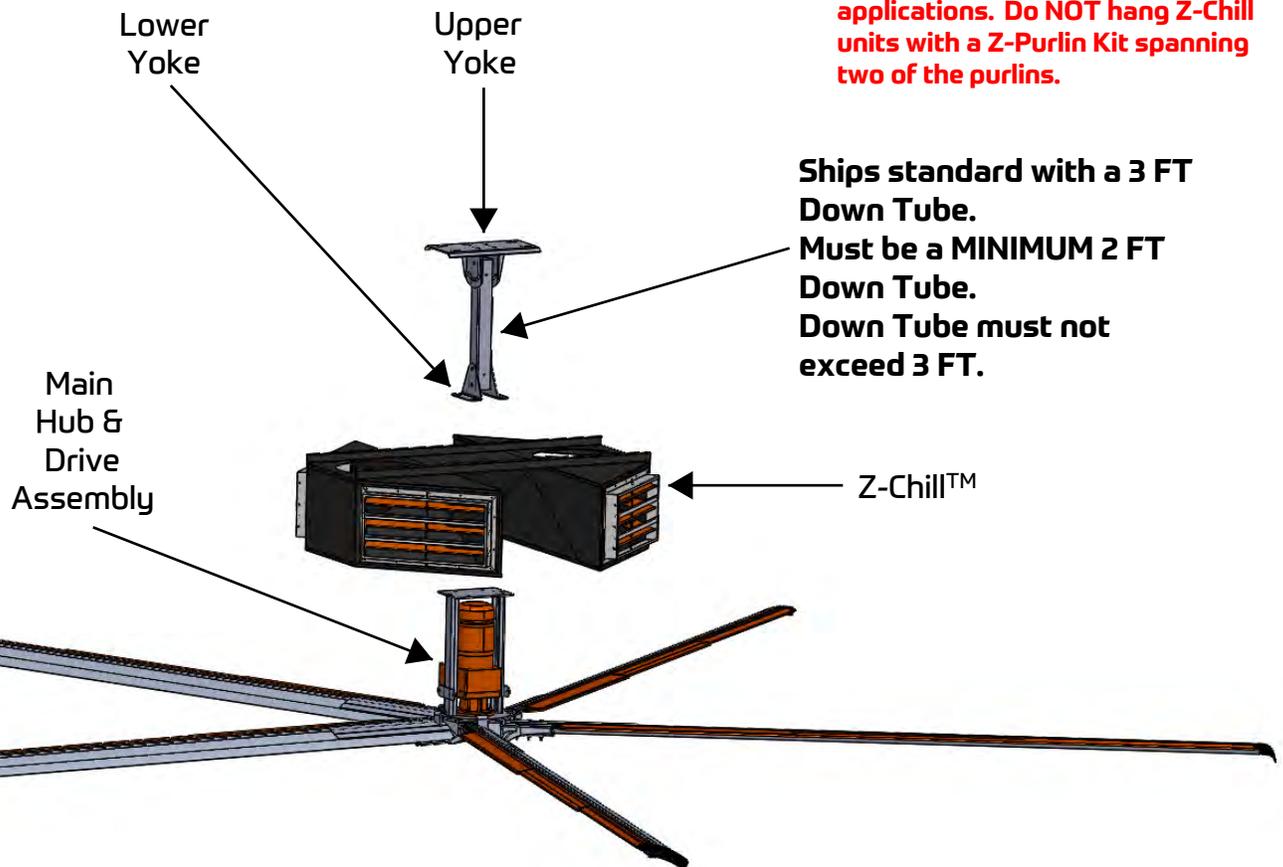




## Z-CHILL™ INSTALLATION GUIDE

- ⚠ Follow the Factory Mutual Insurance Company (FM Global) standards, Heating equipment manufacturer's guideline and safety standards such as those published by the National Fire Protection Association (NFPA), and the American Society for Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), and local code authorities.
- ⚠ VividAir recommends the Z-Chill™ system blowers be connected to the fire suppression system in addition to the Z-Tech™ fan.
- The Z-Chill™ System requires a minimum 2 FT Down Tube. If you are retrofitting this to an existing VividAir Z-Tech™ fan with the standard 1 FT Down Tube that Down Tube must be removed and replaced with a minimum 2 FT Down Tube as part of the retrofit process. See the Z-Tech™ installation manual for details.
- This manual contains information on the assembly of Z-Chill™ only. Please see the VividAir Z-Tech™ installation manual for all instructions regarding the fan.

**NOTE: Z-Chill equipped Z-Tech fans must mount directly to the main beams with Z-Purlin applications. Do NOT hang Z-Chill units with a Z-Purlin Kit spanning two of the purlins.**



Your Z-Chill™ Kit consists of:  
(2) Louver Assemblies  
(1) Mounting Plate  
(1) Hardware Box (details on next page)

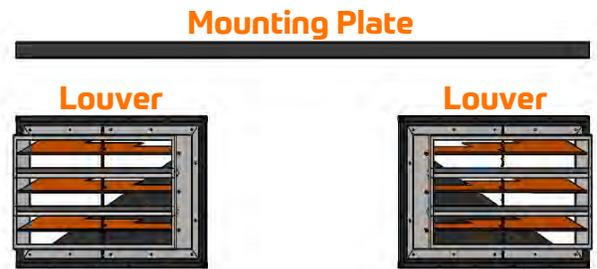
**Z-CHILL™ INSTALLATION GUIDE**

**Assemble Z-Chill™:**

- a) Once you have completed installation of the Upper Yolk Weldment in the final Z-Chill™ location assemble the Z-Chill™ Louvers to the Mounting Plate with the hardware provided:
  - i) (8) 3/8"x16 x1" Grade 8 Hex Cap Screws
  - ii) (8) 3/8"x16 Grade 8 Nylock Nuts
  - iii) (16) 3/8" Yellow Zinc Washers
  - iv) (8) Washer Plates (these position inside the louver assembly to spread out the weight of the louver assembly on the hardware).

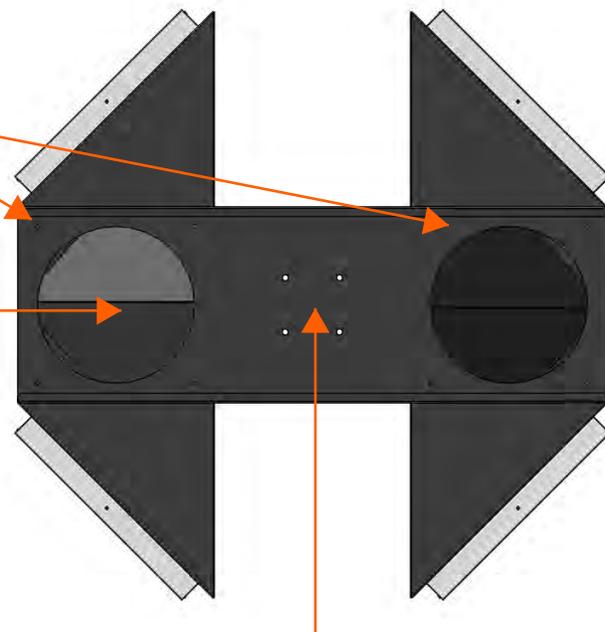
Refer to Steps 4 & 5, Figures 7,8,10, & 11, on pages 15 & 16 of the VividAir Z-Tech™ installation manual.

- 1) Place the Louver Assemblies and Mounting Plate so the large air duct holes and the (4) anchor holes align.
- 2) Secure the Louver Assemblies to the Mounting Plate using the hardware listed above.



Louver Anchor Holes (4) per Louver

Air Duct Hole



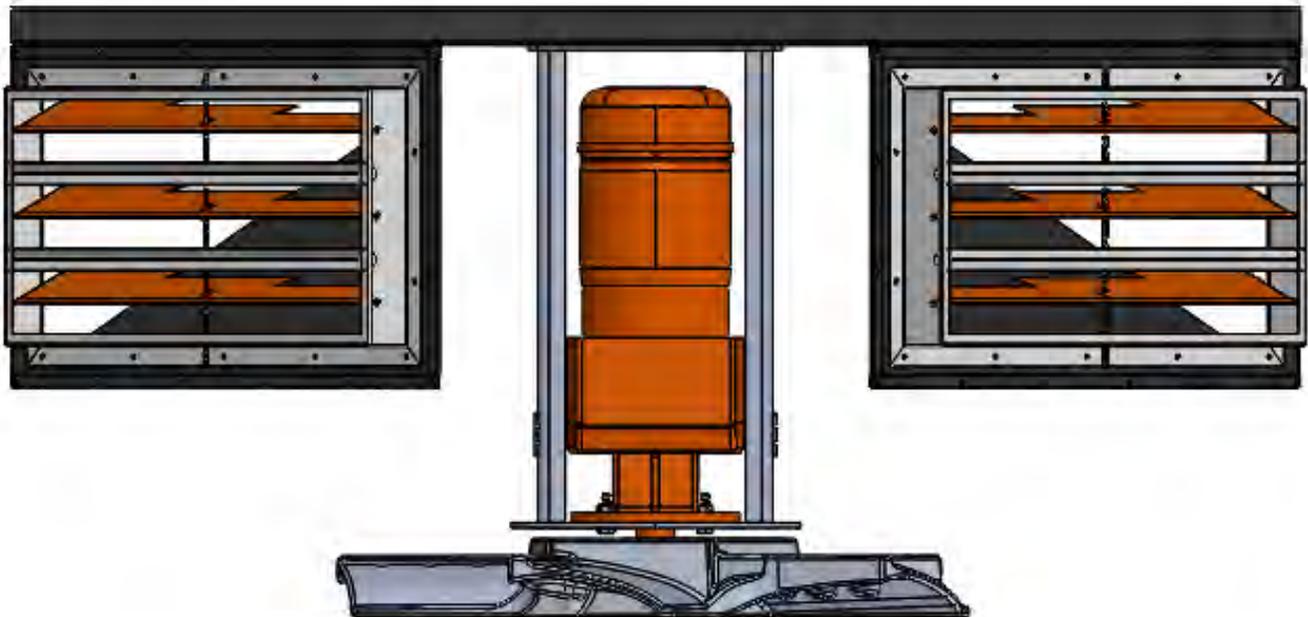
Z-Chill™ Assembly Anchor Holes

**Suggested hardware assembly method:**

- i) Take a Hex Cap Screw and place a Washer on it followed by a Washer Plate.
- ii) Run the Hex Cap Screw up through the Louver and Mounting Plate.
- iii) Secure in place with a Washer and Nylock Nut.

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- 3) Secure the assembled Z-Chill™ to the Main Hub & Drive Assembly:
  - a) With the Main Hub & Drive Assembly resting on a skid lift the assembled Z-Chill™ onto the Main Hub and Drive Assembly.
  - b) Be sure to align Z-Chill™ so the area between the Louvers is open to allow access to the motor power cover plate.
  - c) Tighten Z-Chill™ in place on the Main Hub and Drive Assembly with the Lower Yolk brackets in place using the hardware supplied with the fan to anchor the Main Hub and Drive Assembly to the Lower Yoke at the bottom of the Down Tube.
    - i) (4) 1/2"x13x1.5" Grade 8 Hex Cap Screw
    - ii) (8) 1/2" ASTM F436 Type 1 Mechanical Galvanized Steel Structural Flat Washer
    - iii) (4) 1/2"x13 Grade 5 Steel Nylock Nut
  - d) Assemble the Down Tube onto the Lower Yolk Brackets and tighten to 40 ft-lbs (54.2 N.m)
- 4) Lift the Z-Chill™ System onto the lift using a forklift.
- 5) Raise into place and assemble the Down Tube into the Upper Yolk Weldment.
- 6) Loosely fasten the hardware and allow the fan to "auto-level".
  - a) Verify level as indicated in your Z-Tech Installation & Technical Operations Instructions.



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b) Reference VividAir Z-Tech™ installation manual page 12, Figure 13 and complete your fan installation per that manual.

7) Once Z-Chill™ is secured to the building structure and level wrap the Z-Tech™ SS safety straps around the building structure and secure with the supplied shackle or 3/8" quick link.

