

Technical Datasheet

Venus H-3000 Series (Dome)

Protection against High Heat and Electrical Hazards
Class E Hard Hats Rated for 20000 Volts.



HIGH HEAT APPLICATION

Helmet Shell Color	Venus H-3000 Series Shell (Item Code)
	Non Ventilated
	V-3010 Textile Ratchet
White	Item # 110891101
Yellow	Item # 110891001
Blue	Item # 110890901
Green	Item # 110890801
Orange	Item # 110890701
Red	Item # 110890601



Technical Specification:

Certified with ANSI Type I Class E Z89.1-2014 (R2019) and IS 2925 for assured performance and reliability

- **Shell Material:** ABS (Acrylonitrile Butadiene Styrene) or High-Density Polyethylene (HDPE)
 - High Temperature resistance shell.
 - ABS shell offers lightweight, high-impact resistance.
 - HDPE shell ensures a strong, durable, and lightweight helmet for long-lasting protection.
 - Good dimensional stability and rigidity under thermal and mechanical stress.
- **Certification:** Type I Certified
 - Conforms to safety standards for industrial and electrical hazard protection.
 - Provides protection against electrical hazards up to 20,000 volts (Class E).
- **Suspension System:**
 - 4-Point Textile Suspension for reliable impact distribution and added comfort.
 - Sure-Lock Ratchet for quick and easy adjustments.
 - Pin Lock or "Fit-Lock" Ratchet Adjustment for a customizable, comfortable fit.
 - **Peak:** Optimum peak designed for excellent visibility and sun protection.
 - **Brim:** Full brim for added sun and weather protection.
 - **Rain Trough:** Integrated rain trough for convenience in wet conditions.
- **Accessory Slots:**
 - Slots available for mounting accessories (ear muffs, face shields, etc.).
 - Chin strap attachments for a secure, adjustable fit.

FEATURES AND BENEFITS

- **Optimum Peak Design:**
 - The optimized peak provides protection from sunlight and falling debris, ensuring better visibility while keeping the user safe from environmental exposure.

- **Durable ABS or HDPE Shell:**
 - The high-density polyethylene shell is lightweight, providing excellent comfort for long wear while offering superior impact protection. The ABS material ensures impact resistance and durability in demanding work environments.
- **Electrical Hazard Protection (Class E):**
 - Protects against electrical hazards up to 20,000 volts (Class E), making it a reliable choice for workers exposed to electrical risks.
- **Non-Brittle, Non-Hazardous Construction:**
 - It offers a safer, more durable alternative without compromising on strength or heat resistance.
- **Sure-Lock Ratchet Suspension System:**
 - The “Sure-Lock” ratchet system allows quick and easy adjustments for a secure fit, while the 4-point textile suspension system evenly distributes the impact force for better protection and comfort.
- **Full Brim Design:**
 - The full brim design extends around the helmet to provide additional protection from the elements, such as sun, rain, and debris.
- **Rain Trough:**
 - The integrated rain trough directs rainwater away from the face, providing additional comfort in wet conditions.
- **Customizable with Large Printing Areas:**
 - The helmet’s large surfaces offer ample space for custom logos and branding, ideal for businesses looking to personalize safety gear for their workers.
- **Comfortable and Adjustable Fit:**
 - The pin lock or exclusive “Fit-Lock” ratchet adjustment suspension allows for precise adjustment, ensuring the helmet fits comfortably and securely on a variety of head shapes and sizes.
- **Accessory Compatibility:**
 - Designed with accessory slots, allowing easy attachment of ear protection, face shields, or other PPE for comprehensive protection.
- **Chin Strap Attachments:**
 - Secure chin strap attachments ensure the helmet stays in place, even in challenging conditions or when working at height.
- **Lightweight Design:**
 - Despite its strength and thermal performance, the helmet remains lightweight, ensuring all-day comfort.

User Instructions:

1. **Before Use:**
 - Inspect the helmet for any damage, such as cracks, broken straps, or defects in the suspension system.
 - Ensure that the shell is intact and free from any signs of wear that could compromise safety.
 - Confirm the adjustment system (ratchet or pin lock) is functioning correctly.
2. **Fitting:**
 - Adjust the **Sure-Lock Ratchet Suspension** by rotating the knob to achieve a secure fit. The helmet should sit comfortably on the head, not too tight but snug enough to stay in place.
 - Use the **4-point textile suspension** to ensure the helmet is evenly distributed for maximum comfort and protection.
 - Adjust the **chin strap** for added security, ensuring it is snug but not too tight to restrict movement.

3. **During Use:**

- Wear the helmet whenever working in environments where head protection is required.
- Ensure that the peak is positioned correctly for optimal visibility and protection.
- Avoid removing the helmet unless it is safe to do so or during breaks in areas where there are no hazards.
- In rainy or wet conditions, the integrated rain trough will help direct water away from the face, but avoid prolonged exposure to heavy rain without proper coverage.

4. **Maintenance:**

- Regularly clean the helmet with a damp cloth and mild soap. Do not use harsh chemicals, as this may damage the shell material.
- Check for any damage to the suspension system, shell, or accessories. Replace any damaged parts immediately to ensure continued safety.
- If the helmet has been subjected to a heavy impact or is showing signs of damage, replace it to maintain protective performance.

5. **Storage:**

- Store the helmet in a cool, dry place away from direct sunlight, heat sources, or harsh chemicals that could degrade the materials.
- Keep the helmet in a protective cover to prevent damage to the shell and suspension system.
- Replace the safety helmet if they become cracked, or lose their protective qualities.

Applications:

- **Steel Plants and Foundries:** Protection in areas with high ambient temperatures, molten metal splash, or radiant heat exposure.
- **Glass Manufacturing:** Helmets withstand high radiant heat near furnaces and kilns.
- **Cement and Ceramic Industries:** Operate reliably in dust, heat, and mechanical impact zones.
- **Thermal Power Plants:** Suitable for workers in turbine rooms and boiler areas with elevated temperatures.
- **Oil & Gas (Refineries, Petrochemical Units):** Chemical resistance combined with heat tolerance ensures performance in high-risk zones.
- **Welding and Fabrication Shops:** Offers heat and impact protection during heavy fabrication work.
- **Automotive and Aerospace Manufacturing:** For maintenance crews and assembly lines operating with heated components.