Technical Parameters of Inflatable Tent

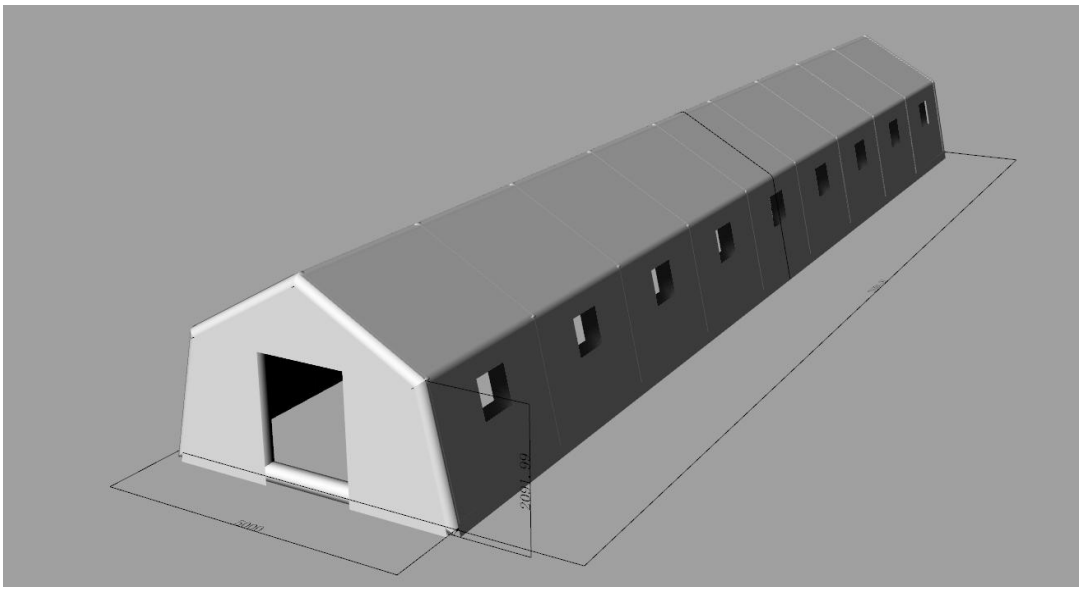
I. Overall Structure (Figures 1-1/1-2)

The inflatable tent is of an integrated, no-assembly design and can be fully inflated in one go.

The overall structure of the tent consists of four main parts: inflatable frame, outer cover cloth, inner lining, and ground cloth.

The inflatable frame is equipped with inflation/deflation valves and safety valves.

The tent has a door on the front gable, which opens in a zippered roller shutter style; there are windows on both sides of the tent, which are double-layered and open in a hook-and-loop roller shutter style.



II. Tent Materials

1. **Inflatable Frame Material**: 0.7mm PVC double-sided coated airtight cloth, manufactured by high-temperature hot-melt machine welding.

2. **Outer Cover**: 600D PVC coated Oxford cloth, available in optional colors including fire-fighting red, white, orange, military green, camouflage, and light blue. It is connected to the inflatable frame by adhesion.

3. **Inner Lining**: 210D white Oxford cloth, connected to the inflatable frame by hook-and-loop fasteners.

4. **Ground Cloth**: 0.4mm gray PVC double-sided coated knife-scraped cloth, bonded integrally with the inflatable frame.

III. Tent Dimension Parameters

1. Dimensions and Images of the Inflatable Tent

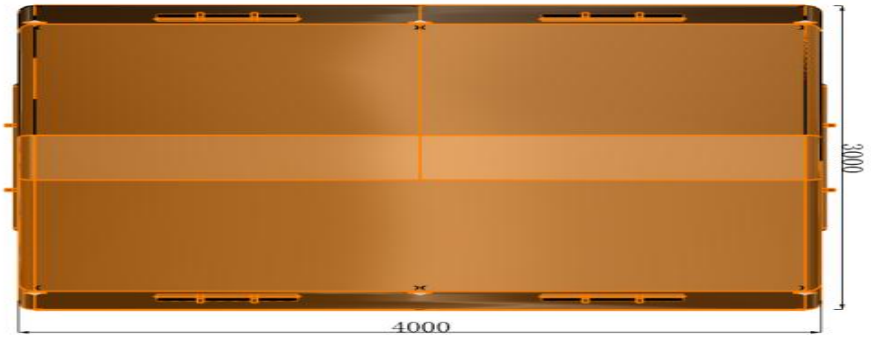
External Dimensions: Length 25000mm, Width 5000mm, Shoulder Height 2092mm, Total Height 3200mm.

Internal Dimensions: Length 24380mm, Width 4380mm, Shoulder Height 1782mm, Total Height 2890mm.

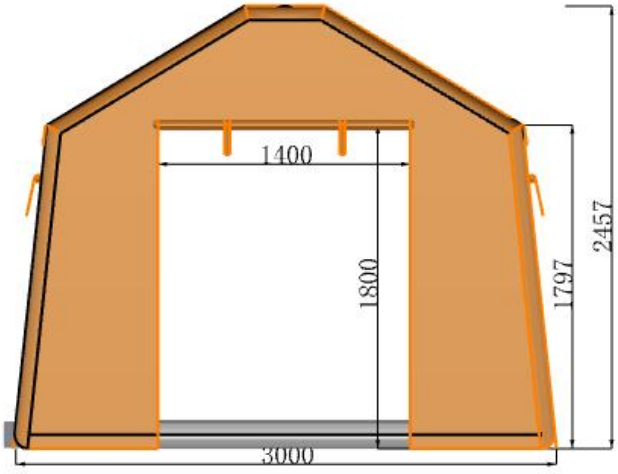
Door Dimensions: Width 1400mm, Height 1800mm.

Window Dimensions: Width 700mm, Height 600mm; Height from the ground: 900mm.

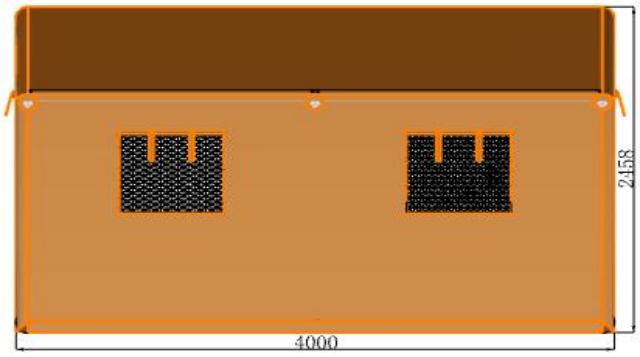
[Top View]



[Front View]



[Side View]



IV. Usage Parameters

1. **Working Pressure**: 18kpa ~ 23kpa

2. **Wind Resistance Class**: Grade 9 (21.1m/s), maintaining structural stability under such wind conditions.

3. **Rainproof Performance**: No internal leakage under heavy rain conditions of 18mm/h.

4. **Snow Resistance Performance**: Capable of withstanding 200mm of fresh snow.

5. **Temperature Adaptability**: -25℃ ~ 70℃

6. **Inflation Molding Time**: 5-7 minutes

7. **Surface Water Protection Height**: 150mm

V. Standard Configuration

Equipped with: 1 unit of 1900W electric inflation/deflation pump, 20 ground nails (Ø12mm), 20 pull ropes (Ø8mm polyester), 20 rope tensioning plates, 1 hand hammer (4LB), and 1 repair tool kit (including 2 pieces of repair cloth (A4 size), 1 small bottle of glue, and 1 glue brush).

VI. Packaging

Packaging Material: 4*4 military-grade silicone waterproof canvas, with hook-and-loop lap joints and strap fixing; hand straps are sewn on the outside of the package.

Estimated Packaging Dimensions: 2000mm*1300mm*1200mm

Estimated Tent Weight: 300kg