



## Gas storage tank for air compressor system

### Our Product Introduction

#### Basic Information

- Place of Origin: China
- Brand Name: Aipu
- Model Number: 0.3-100m<sup>3</sup>
- Minimum Order Quantity: 1PC
- Price: negotiable
- Packaging Details: container
- Delivery Time: 10
- Payment Terms: tt
- Supply Ability: 10000t/y



#### Product Specification

- Exhaust Pressure: 0.8-2.5Mpa
- Volume: 0.3-100m<sup>3</sup>
- Design Temperature: 0-150
- Medium: Air, Nitrogen, And Other Inert Gases
- Welding Process: Submerged Arc Automatic Welding/gas Shielded Welding

## Product Description

### Product Description:

Aipu gas storage tank is an indispensable key equipment in compressed air systems, designed specifically for storing compressed air, stabilizing system pressure, improving air quality, and optimizing energy consumption. We adhere to exquisite craftsmanship and strict quality standards, committed to providing users with reliable aerodynamic support from the source to the end, widely used in various industrial fields such as manufacturing, chemical, textile, food and beverage, mining, etc.

### Core product series:

We offer various types of gas storage tanks to meet the needs of different customers:

#### 1.Vertical gas storage tank

Features: Small footprint, compact structure, suitable for indoor or compact factory installations with limited space.

Advantages: Easy to deposit and discharge condensed water, easy to maintain.

Application: Small and medium-sized air compressor stations, local gas supply points in workshops.

#### 2.Horizontal gas storage tank

Features: Low center of gravity, good stability, wide capacity range.

Advantage: It can be matched with large air compressors to form a stable compressed air supply center.

Application: Large central air compression stations, industrial processes that require large capacity buffering.

#### 3.High-pressure gas storage tank

Features: Made with special materials and processes, the pressure bearing capacity far exceeds that of conventional gas storage tanks.

Advantage: Meet the storage needs of high-pressure gases for special processes.

Application: Special fields such as fire protection systems, energy exploration, scientific research experiments, and high-voltage testing.

### Core features and advantages:

#### 1. Excellent security performance

High quality material: The tank body is made of high-quality carbon steel Q345R or Q245R, which has extremely high strength, toughness, and fatigue resistance.

Strict manufacturing: The entire process follows the GB150 "Pressure Vessel" standard and adopts advanced automatic welding technology for longitudinal and circumferential seams to ensure uniform, firm, and defect free welds.

Authoritative certification: Each gas storage tank undergoes strict supervision and inspection by a third-party authoritative organization (such as a special inspection institute), and is issued a "Pressure Vessel Supervision and Inspection Certificate" to ensure the legal and safe use of the product.

#### 2. Efficient voltage regulation and energy saving

Buffer pressure pulsation: effectively eliminates pressure fluctuations in the output gas of the air compressor, providing continuous and stable pressure for backend gas equipment and improving product processing quality.

Reduce no-load operation: By storing compressed air, reduce the loading/unloading or start stop frequency of the air compressor, effectively reduce energy consumption, and extend the service life of the air compressor.

Response to peak demand: During peak gas usage periods, gas storage tanks can promptly replenish gas supply to avoid sudden drops in pipeline pressure and ensure smooth production.

#### 3. Excellent air handling capability

Cooling and water separation: Compressed air expands in volume in the air storage tank, naturally lowering the temperature, causing a large amount of water vapor and oil mist to condense into liquid, which is easy to discharge through the bottom drain valve.

Preliminary purification: As the "outpost" of the compressed air system, it can effectively separate and remove most of the liquid water and oil, reduce the load on the back-end refrigerated dryer and filter, and improve the overall air quality.

#### 4. Humanized design and convenient maintenance

Anti corrosion treatment: After sandblasting and rust removal on the inner and outer surfaces of the tank, high-quality anti-corrosion coatings are sprayed to prevent rust and corrosion, and adapt to various harsh industrial environments.

Complete interfaces: equipped with standard air inlet, outlet, safety valve interface, pressure gauge interface, and bottom drain outlet, easy to install and connect.

Low maintenance cost: With a simple structure and reliable operation, only regular sewage discharge and annual inspections are required, resulting in extremely low maintenance costs.

### Technical Specifications:

| Project | Description |
|---------|-------------|
|---------|-------------|

|                    |                                                                                                                                |
|--------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Design pressure    | Conventional series: 0.8MPa, 1.0MPa, 1.2MPa, 1.3MPa; High pressure series: customizable to 2.5MPa or higher                    |
| Volume range       | 0.3m <sup>3</sup> to 100m <sup>3</sup> (customizable according to customer needs)                                              |
| Design temperature | 0℃ ~ 150℃                                                                                                                      |
| Medium             | Air, nitrogen, and other inert gases                                                                                           |
| Welding process    | Submerged arc automatic welding/gas shielded welding                                                                           |
| Flam detection     | 100% radiographic testing (RT) or ultrasonic testing (UT)                                                                      |
| Hydrostatic test   | Strictly conduct a water pressure test at 1.25 times/1.5 times the design pressure according to the standard                   |
| Surface treatment  | Sandblasting rust removal reaches Sa2.5 level, and the outer surface is sprayed with anti rust paint (color can be customized) |

## Applications:

Factory power source: provides a stable air source for pneumatic tools, cylinders, valves, etc.

Process industry: mixing of chemical raw materials, textile air-jet looms, food packaging machinery.

Infrastructure construction: mining rock drilling, bridge construction, tunnel ventilation.

Energy and Environmental Protection: Gas Turbine Startup, Sewage Treatment Aeration.

Special purposes: car maintenance, nail gun, sandblasting cleaning, etc.

## Support and Services:

Before you make a purchase, our expert team is ready to ensure that you choose the most suitable product.

Technical consultation: Provide online technical Q&A to answer any technical questions about pressure, volume, material, standards, etc.

Professional selection:

Based on your air compressor displacement, air flow rate, working pressure and other parameters, we will calculate and recommend the optimal volume and model of air storage tank for you.

Assist you in determining the best choice for vertical, horizontal, or special models, and provide installation layout recommendations.

Customized solutions: For non-standard or special requirements (such as specific pressure, volume, interface form), our engineering team can provide customized solutions.

Document provision: Timely provide product qualification certificates (supervision and inspection certificates), detailed drawings, technical parameter tables, etc., to assist your procurement decision-making and inspection process.

## Packing and Shipping:

Product packaging:

The gas storage tank is packed in a sturdy cardboard box with product images and specifications printed on the outside. Inside, the product is safely packed with foam inserts to prevent any damage during transportation.

Shipping:

We provide transportation services for gas storage tanks worldwide. Our standard shipping time is 3-5 working days. If you need urgent shipment, please contact our customer service team. We ship through trusted carriers such as UPS, FedEx, and USPS, and provide you with tracking numbers for your convenience.

## FAQ:

**Q: What is the brand name of this product?**

A: The brand name of this product is Aipu.

**Q: What is the model number of this product?**

A: This product model is a gas storage tank.

**Q: Where is this product made?**

A: This product is made in China.

**Q: Does this product have any certifications?**

A: Yes, this product is certified by CE.

**Q: What is the minimum order quantity for this product?**

A: The minimum order quantity for this product is 1pc.

**Q: Is the price of this product negotiable?**

A: Yes, the price of this product is negotiable.

**Q: What is the packaging details for this product?**

A: The packaging details for this product is container.

**Q: How long is the delivery time for this product?**

A: The delivery time for this product is 10 days.

**Q: What are the payment terms for this product?**

A: The payment terms for this product is tt.

**Q: What is the supply ability of this product?**

A: The supply ability of this product is 10000t/y.



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