



# Complete technical solutions for **Shipping Industry**

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**FIRE ALARM**



**SAFETY**



**REFRIGERANT**



**AC/OX**



## ABOUT US



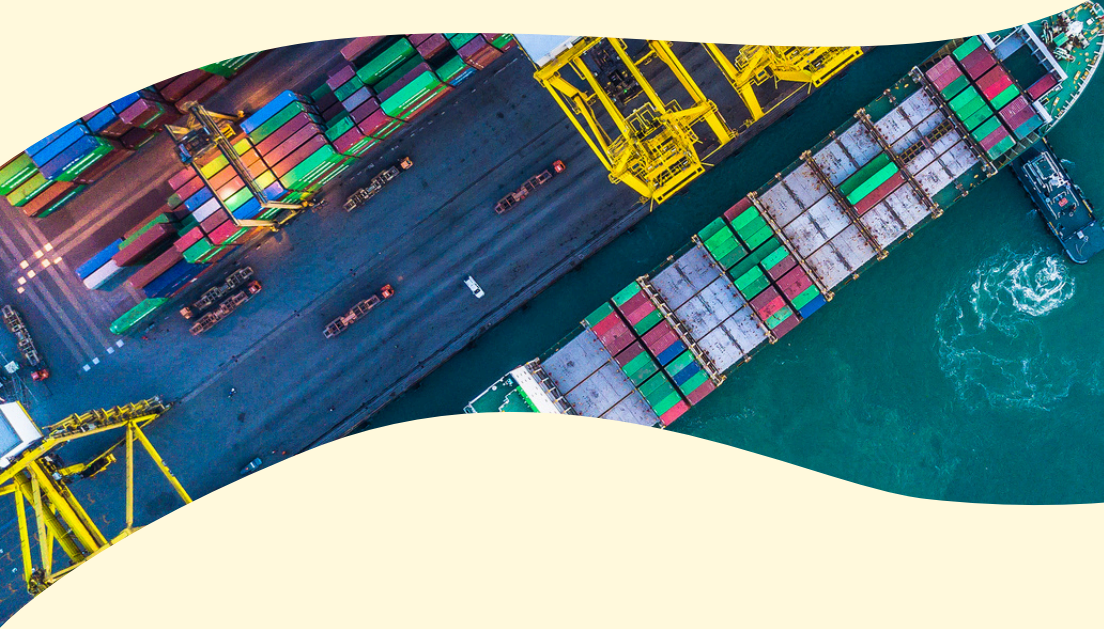
China's shipbuilding sector has witnessed exponential growth over recent decades, catapulting Chinese marine suppliers into a phase of dynamic evolution.

These suppliers exemplify a steadfast commitment to excellence and compliance, adhering rigorously to standards and regulations set forth by the International Maritime Organization (IMO) and various global authorities.

Their expertise spans a diverse array of specializations, from manufacturing critical spare parts, offering specialized services, operating shipyards, to designing cutting-edge maritime solutions.

They also excel in providing essential materials, crafting bespoke accessories, and producing sophisticated components.

Scan to take a look at our on-line shop 'WELLERMAN'



The Original Equipment Manufacturer (OEM) group from China stands as a cornerstone in the global maritime industry, significantly enhancing fleet operations and their aftermarket dynamics.

In an era where the maritime fleet is aging, WISERISE strategically positions itself at the forefront of delivering comprehensive category procurement solutions to a global clientele.

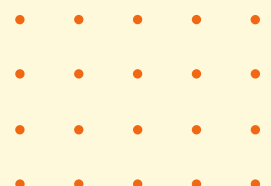
Since our inception in 2018, WISERISE has fostered enduring, symbiotic relationships with China's most trusted and reputable ship suppliers, reinforcing its status as a pivotal player in the international maritime procurement arena.



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## Refrigerant Solutions for Maritime Category Procurement

As a company specializing in maritime category procurement, we focus on providing a comprehensive range of refrigerants as one of our core business segments.

Our refrigerants are suited for various applications, including maritime, fishing, and food industries, and we support annual export allowances. We manage the complete export process within China, covering export clearance, loading, and transportation, ensuring that clients with import qualifications can easily access our high-quality refrigerants.

We supply essential documentation, including Certificates of Analysis (COA) and Material Safety Data Sheets (MSDS), and can provide third-party inspection reports, such as SGS, upon request to ensure quality. Additionally, we offer flexible packaging options to meet the unique needs of different applications.



**R507:** As the long-term substitute for R502, R507 used mainly in the low temperature refrigerating systems.

Main Packaging  
Net weight: 10.6KG Packing size:  
320\*320\*430mm



**R-408A** is a retrofit solution for medium and low temperature refrigeration systems that are currently using R-502.

R-408A should not be mixed with R-502 or used to top off the charge of an existing system operating on R-502.

Main Packaging  
Net weight: 10.9KG Packing size:  
245\*245\*425mm



**R410A** refrigerant is used in new residential and commercial air conditioning systems, heat pumps, dehumidifiers and small chillers. R-410A is also being considered in some medium temperature refrigeration applications.

Main Packaging  
Net weight: 11.3KG Packing size:  
245\*245\*425mm



**407C** is a mixture of hydrofluorocarbons used as a refrigerant. It is a zeotropic blend of R-32, R-125, and R-134a (20/40/40). Applications include residential and commercial air conditioning systems, non-flooded evaporator chillers, and some commercial refrigeration systems. Since R-407C has similar properties to R-22, it is possible (with modifications) to use it in the same equipment designed for R-22 today.

Main Packaging  
Net weight: 11.3KG Packing size:  
245\*245\*425mm



**HFC-134a** is used as refrigerant in automobile air-conditioning, household and commercial refrigerant applications. It can also be used as aerosol, flame retardant, and blowing agent in pharmaceutical, agro-chemical, cosmetics and cleaning sectors.

Main Packaging  
Net weight: 13.6KG Packing size:  
245\*245\*425mm



**R-406A** is a mixture of three components chlorodifluoromethane (R-22), isobutane (R-600a) and chlorodifluoroethane (R-142b) in the ratio 55/4/41. R406A was designed as a replacement for R-12, which is compatible with the typical mineral oil lubricants used in R-12 systems. It has a range of boiling points which may increase the effectiveness of the heat transfer elements in refrigeration equipment. As it contains R-22, its future is limited due to eventual phase-out.

Main Packaging  
Net weight: 13.6KG Packing size:  
245\*245\*425mm



**Chlorodifluoromethane (HCFC-22)**, a colorless gas at room temperature, is a colorless, non-toxic, non-flammable and transparent liquid under the pressure created by itself. It has excellent thermal and chemical stabilities and no corrosivity to metals. Its main applications include refrigerant (-80°C grade), raw material for PTFE production and intermediate for Halon 1211 production.

Main Packaging  
Net weight: 13.6KG Packing size:  
245\*245\*425mm  
Net weight: 22.7KG Packing size:  
310\*310\*455mm



**R404A** is formulated to closely match the properties of Refrigerant R502, making it useful for a variety of medium and low temperature refrigeration applications. Refrigerant R404A has been approved by many refrigeration compressor and system manufacturers for use in new refrigeration equipment such as food display and storage cases, cold storage rooms, ice machines, transportation, and process refrigeration.

Main Packaging  
Net weight: 10.9KG Packing size:  
245\*245\*425mm



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**R14** As a low temperature refrigerant; in electronics microfabrication alone or in combination with oxygen as a plasma etchant for silicon, silicon dioxide, and silicon nitride; in high-voltage equipment production; in neutron detectors.



**R23** Low temperature refrigerant, extinguishant, chemical raw material



**R116** Used as Refrigerant, PTFE material, Halon 1211 intermediate



**R124** Refrigerant, fire-extinguishing agent, R114 replacement



**R125** As a refrigerant, mainly used in the fields of air conditioner, industrial cooling and cooling water units; used for confecting refrigerants like R404A, R407C, R410A and R507, etc. for R22 and R12; also as fire extinguishing agent for substitution of Hylool series agents.



**R227ea** is a colorless gas at normal temperature and pressure. As a clean, environment-friendly, high affective and low toxic fire extinguishing agent, refrigerant R-227ea is ideal substitute for halon 1301.



**R236fa** Extinguishing agent, refrigerant, aerosol spray, foaming agent and heat-carrying agent



**R290** High pure grade R290 is used as temperature sensing medium. Premium grade and first grade R290 can be used as refrigerant and can replace R22.



**R600a**  
Refrigerant, can replace R12



**R1150** Can replace R13, R503, used in cryogenic refrigeration equipment



**R245fa** is an HFC based single components. It is no-ODP.  
It is the third generation blowing agents replace R11 and R141b.

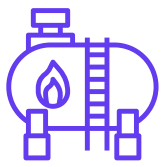
It replaces R11 and R123 in the applications of new centrifugal chillers as refrigerants..Foam blowing agent, used to manufacture PU foam.Refrigerants, used in new centrifugal chillers. The third generation foaming agent as alternative to CFC and HCFC blowing agent, used for foaming in ice-box,panal,polyurethane adiabatic material



### Fire extinguishing agent R123

R123 mainly uses in large, low-pressure centrifugal chillers. And replaces R11 and R113 to use as cleaning agent, foamier and refrigerant

 **& MORE**



## WISERISE GAS SOLUTION FOR MARITIME APPLICATIONS

WISERISE offers a comprehensive range of gases essential for various maritime applications, ensuring the highest standards of safety, efficiency, and reliability. Our extensive portfolio includes:



### Nitrogen (N<sub>2</sub>):

Applications: Inerting tanks to prevent explosions, fire suppression systems, and as a source for pneumatic tools and equipment, or for Marine Main Engine Oil Injector Accumulator.

### Carbon Dioxide (CO<sub>2</sub>):

Applications: CO<sub>2</sub> fire extinguishing systems on ships, used to control fires in engine rooms and cargo holds.

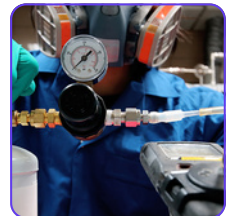
### Argon (Ar):

Applications: In TIG welding to protect the weld area from oxidation and contamination.

### Oxygen (O<sub>2</sub>):

Applications: Onboard medical oxygen systems, oxygen cylinders for divers.

WISERISE offers a comprehensive range of calibration gases, including: Methane (CH<sub>4</sub>), Carbon Dioxide (CO<sub>2</sub>), Carbon Monoxide (CO), Oxygen (O<sub>2</sub>), Nitrogen (N<sub>2</sub>), Hydrogen (H<sub>2</sub>), and custom Gas Mixtures: Such as a common four-in-one calibration gas mixture. We can quickly prepare and provide these calibration gases to meet various application needs, ensuring precise calibration for different sensors and detectors on ships and offshore platforms.

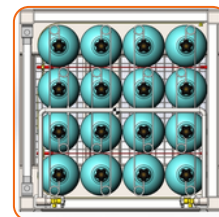


## WISERISE GAS CYLINDER RACK & DISTRIBUTION SYSTEM

Moving gas cylinders around is time consuming and demanding operation. With WISERISE Marine Gas Installation Rack System, the movement of the pressurizing cylinders are minimized so cylinders can be kept safely in one designated location on the uppermost continuous deck. Gas is piped to the outlet station at the location where the gas is needed.

High-pressure pipe of each cylinder are all connected with the main pipe, which can be charged at one-time operation, saving the operating cost of single charging.

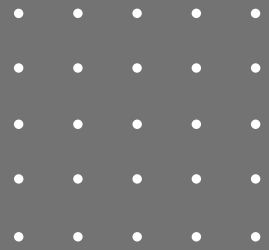
If you want to know more, please get in touch with us



## WISERISE AC/OX MARINE WELDING SYSTEM

WISERISE offer the complete gas welding system consists of all items necessary for the gas central room, including signs, racks, equipment and brackets to be screwed or welded to deck and bulkhead. It also includes pre-welded unions to be welded to the distribution pipes and brazed to the evacuation pipes from the regulator safety valves.





Maritime on-line shop, Powered by WISERISE

<https://shop.wiserisemarine.com>

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Since its inception in 2018, WISERISE has fostered enduring, symbiotic relationships with global most trusted and reputable ship suppliers, reinforcing its status as a pivotal player in the international maritime procurement arena.

- Every maritime product you engage with is meticulously maintained by our Technical Managers
- Maritime After-Sales Service Marketplace: Your One-Stop Procurement Platform
- 30+ premium brands
- Project capabilities from engineering to commissioning
- Facilities in Singapore and China
- Fast deliveries worldwide
- Dangerous goods business license
- Competitive prices



TradeNet:  
304760



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