

LNG REFUELING STATION SKID

PRODUCT BROCHURE

ZHANGJIAGANG FURUI CIT CO., LTD

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Company Profile

Zhangjiagang Furui Special Equipment Co., Ltd. was founded in August 2003 with a registered capital of 69,210,290 USD. The company occupies 640,000 square meters and is published on the A section of the Shenzhen Stock Exchange.

Zhangjiagang Furui Cit CO.,Ltd. is a fully owned subsidiary company of Furuise, which is a high-tech enterprise specialized in the design and manufacturing the one-stop integrated solution of natural gas liquefaction, storage, transportation, loading and unloading as well as terminal application and has lots of successful experience in onshore and offshore for domestic & global projects.







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Description of LNG refueling station skid 10FT LNG refueling station 20FT LNG Refueling skid 25m³ LNG refueling station 60m³ LNG refueling station LNG refueling tank container LNG refueling semi-trailer



Description of LNG refueling station skid

Specification List

| Refueling type | Туре | Mode | Overall Dimension (m) | Tank Volume (m³) | Gasification Capacity (Nm³/h) | Control System |
|------------------------|-----------------------------|-----------------------------|--------------------------|---------------------|----------------------------------|-------------------|
| | Skid | FR-FS-S-SK/10FT | 2991×2438×2591 | N/A | 50 | PLC |
| Fixed | Skid | FR-FS-S-SK/20FT | 6058×2438×2591 | N/A | 300/100 | PLC |
| refueling Container | FR-FS-S-CO/25m ³ | 12192×2438×2591 | 25m³ | 300/100 | PLC | |
| | skid | FR-FS-S-CO/60m ³ | 17800×3720×4000 | 60m³ | 300/100 | PLC |
| | Refueling | FR-FS-M-TR/39m³ | 12350×2450×3900 | 39m³ | 200 | PLC |
| Mobile | semi-trailer | FR-FS-M-TR/44m ³ | 13560×2450×3900 | 44m³ | 200 | PLC |
| refueling | Tank | FR-FS-M-CO/20FT | 6058×2438×2591 | 19m³ | 90 | PLC |
| | container with pump | FR-FS-M-CO/40FT | 12192×2438×2591 | 41m³ | 90 | PLC |

Application Scope



- As a fixed LNG refueling station: Refueling LNG for the LNG vehicle on the road;
- As a temporary LNG refueling station: refueling LNG vehicles at construction sites and temporary sites;
- As a mobile LNG refueling device (limited to mobile refueling equipment): road rescue for LNG vehicles; refueling of fixed tanks.

Product Feature



Security design

customers' option;

Integrated design

Under the premise of ensuring complete functions, the product has a smaller volume, flexible and convenient transportation, and less occupation, which reduces the work of on-site construction and commissioning.

Modular design

Product price concessions; Under the premise of satisfying basic functions, allowing customers add functional configurations according to their own needs; adopting explosionprevention plug device to realize plug and play.

Intelligent design

Simply to be used, small maintenance work, customers are able to remotely control products through the monitoring platform (optional configuration).





Equipped with complete safety protection system to ensure the safety of

Main Function

Security System

Unloading

The products fulfill the requirements of pump and differential pressure discharge.

• Tank pressurized function

The products are equipped with supercharger to achieve tank self-pressurization.

Saturation adjustment function

Raising the cold LNG to saturated state, choosing optional function according to customer needs.

Metering function

LNG refueling volume metering: Measuring and recording
the LNG refueling volume during the refueling process;
BOG return gas metering (optional function) :
Measuring and recording the BOG return gas volume during
the refueling process;

LNG unloading volume metering (optional function): Measuring and recording the LNG loading and unloading volume.

Remote monitoring function

Allowing customers to remotely monitor products through the monitoring platform, customers could choose this function according to the working conditions.





Storage tank and pipeline safety valves discharge system

Temperature, pressure, liquid level monitoring system

Gas leak detection and sound, light alarm system

Emergency shut-down system

Breaking system of refueling device



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The equipment is equipped with safety discharge system. Once the system pressure exceeds the set pressure, the safety valve will take off to relieve the pressure.

Customers are able to know the key parameters such as temperature, pressure and liquid level of the equipment system immediately through the monitoring system.

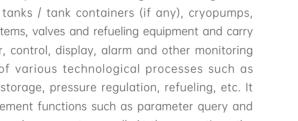
Once a gas leak occurs, it will be detected by the product immediately, onsite audible and visual alarm will be issued , and the customer will be alerted at the first time (SMS, WeChat, etc.).

Once a gas leak occurs and the customer manually presses the emergency stop button, the emergency shut-off valve at the root of the tank will be closed to ensure equipment safety.

In case of accident, such as accidental rolling of truck, etc., the refueling hose will be disconnected at the breakaway coupling to ensure the safety of other equipment and prevent the leakage of LNG.

Control System

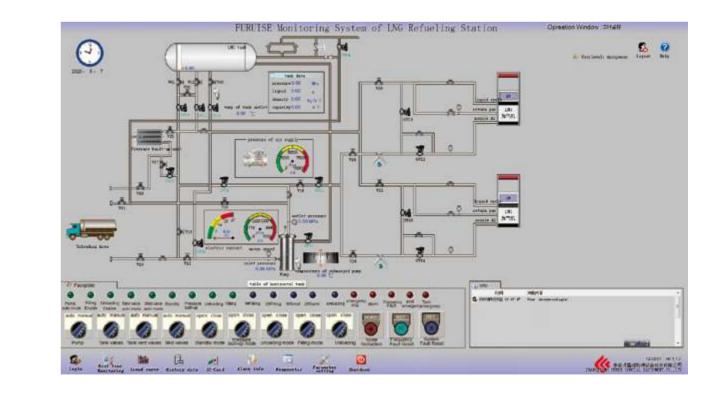
Is able to carry out the monitoring and management of storage tanks / tank containers (if any), cryopumps, pipeline systems, valves and refueling equipment and carry out monitor, control, display, alarm and other monitoring functions of various technological processes such as unloading, storage, pressure regulation, refueling, etc. It has management functions such as parameter query and historical record query, ect. as well. At the same time, the system shall able to carry out the monitoring of the safety



status of the equipment, find hidden dangers such as leaks through monitoring equipment, which means leak alarms here, and alarm the dangers and close the emergency shut-off valves.

The control system is mainly composed of transmitter, PLC, frequency converter, solenoid valve, gas leak alarm detector, etc.

Refueling monitoring screen:







10FT LNG Refueling station



Product basic parameters

| Name | Parameters | Name | Parameters | |
|------------------------|-----------------|--------------------|--|--|
| Product mode | FR-FS-S-SK/10FT | | Three-phase AC380V 50HZ | |
| Design standards | GB/ASME | Using voltage | Single-phase AC220V 50HZ | |
| Working pressure | 1.6MPa | | Direct current DC24V | |
| Design pressure | 2.5MPa | Power | ≤18KW | |
| Piping design | 10/00 | Dimension | 2991×2438×2591mm | |
| Temperature | -196°C | Refueling speed | 8 ~ 80KG/min | |
| Applicable medium | LNG | Metering tolerance | ±1.0% | |
| Ambient temperature | -40~60°C | | 1. LNG refueling and metering; 2. BOG returns | |
| Submersible pumps | 1 | Basic function | gas metering; 3. LNG unloading; | |
| Quantity | I | Optional function | 1. Saturation adjustment and storage tank pressurized system; 2. LNG unloading metering; | |
| Refueling gun quantity | 1 | Optional function | | |

Configuration list

| Name | Туре | Unit | Quantity | Recommended Brand | Optional brand |
|--|---------------------|-------------|-------------|----------------------|--|
| | | Cry | ogenic pum | p skid | |
| Cryogenic pump | / | piece | 1 | Cryostar | ACD/VANZETTI /Huzhou Sanjing /Hangzhou Xinya |
| Vacuum pump pool | DWBC-00A | piece | 1 | Furui | / |
| Cryogenic valve | / | set | 1 | Furui | BESTOBELL/HEROSE |
| Cryogenic mass flowmeter (optional configuration) | DN50 | piece | 1 | American Emerson | Switzerland E + H / KROHNE |
| Steel pipes and accessories | / | set | 1 | China top brands | China top brands |
| | | Re | fueling met | ering | |
| Refueling operation box | Ex | set | 1 | China top brands | China top brands |
| Cryogenic mass flowmeter | DN25 | piece | 1 | American Emerson | Switzerland E + H / KROHN |
| Cryogenic mass flowmeter tional configuration) | DN15 | piece | 1 | American Emerson | Switzerland E + H / KROHN |
| LNG Refueling gun | DN25 | piece | 1 | Furui | JC-CARTER/American ACD/ MACRO |
| Refueling gun base | DJK-25A | piece | 1 | Furui | / |
| Gas return gun | DHJ-10 | piece | 1 | Furui | MACRO/JC-CARTER |
| Cryogenic valve | / | set | 1 | Furui | BESTOBELL/ HEROSE |
| Refueling hose | DN25x4m | piece | 1 | Furui | / |
| Gas return hose | DN15x4m | piece | 1 | Furui | |
| Explosion-proof tools | / | set | 1 | China top brands | China top brands |
| | | Insti | rument gas | system | |
| Nitrogen cylinder | 40L | set | 2 | China top brands | China top brands |
| | Ele | ectrical, a | automatic c | ontrol system | |
| Control box cabinet | Explosion- proof | set | 1 | China top brands | China top brands |
| PLC hardware | / | set | 1 | Siemens | Siemens /Schneider |
| Frequency converter | 18.5KW | set | 1 | Siemens | Siemens /Schneider |
| Temperature Transmitter | 4-20mA | set | 1 | Rosemount | Rosemount/E+H/Yokogawa Honeywell |
| Pressure Transmitters | 4-20mA | set | 1 | Rosemount | Rosemount/E+H/Yokogawa Honeywell |
| Explosion-proof solenoid valve | DC24V | set | 1 | SMC | SMC/CKD/ASCO |
| Combustible gas alarm detector | / | set | 1 | China top brands | China top brands |
| Flame detector (optional configuration) | / | set | 1 | China top brands | China top brands |

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Product Introduction of LNG Refueling Station Skid



20FT LNG Refueling station



Product basic parameters

| Name | Parameters | Name | Parameters |
|----------------------------|-----------------|------------------------|---|
| Product mode | FR-FS-S-SK/20FT | | Three-phase AC380V 50HZ |
| Design standards | GB/ASME | Using voltage | Single-phaseAC220V 50HZ |
| Working pressure | 1.6MPa | - | Direct currentDC24V |
| Design pressure | 2.5MPa | Power | 20KW/40KW |
| Pipe design | 10/90 | Refueling speed | 8 ~ 80KG/min |
| temperature | -196°C - | Metering tolerance | ±1.0% |
| Applicable medium | LNG | Dimension | 6058×2438×2591mm |
| Ambient temperature | -40~60°C | | 1.LNG refueling and metering; 2.BOG return |
| Submersible pump number | 1~2 | Basic function | gas metering; 3.LNG unloading; 4.Tank pressurization and saturation adjustment |
| Refueling equipment number | 1~2 | Optional configuration | 1.one more refueling machine; 2. one more cryopump; 3.LNG unloading metering |

Configuration list

| Name | Туре | Unit | Quantity | Recommended Brand | Optional brand | |
|--|---------------------|-------------|--------------|----------------------|---|--|
| Сг | yogenic pur | ıp skid (a | ble to add a | one more cryogenic | pump) | |
| Cryopump | / | piece | 1~2 | Cryostar | ACD/VANZETTI/HuzhouSanjing /Hangzhou Xin | |
| Vacuum pump pool | DWBC-00A | piece | 1~2 | Furui | / | |
| Cryogenic mass flowmeter (optional configuration) | DN50 | piece | 1 | American Emerson | Switzerland E + H / KROHNE | |
| Tank pressurized device | 300Nm3/h | piece | 1 | Triumph | Suzhou Xinrui / Huadi / Wuxi Enrui | |
| EAG reheater | 100Nm3/h | piece | 1 | Triumph | Suzhou Xinrui / Huadi / Wuxi Enrui | |
| Cryogenic valve | / | set | 1 | Furui | BESTOBELL/HEROSE | |
| Steel pipes and accessories | / | set | 1 | China top brands | China top brands | |
| | Single gu | n refuelir | ng machine | (able to add one se | t) | |
| Cryogenic mass flowmeter | DN25 | piece | 1~2 | American Emerson | Switzerland E + H / KROHNE | |
| Cryogenic mass flowmeter | DN15 | piece | 1~2 | American Emerson | Switzerland E + H / KROHNE | |
| LNG refueling gun | DN25 | piece | 1~2 | Furui | JC-CARTER/American ACD/ MACRO | |
| Refueling gun base | DJK-25A | piece | 1~2 | Furui | | |
| Gas return gun | DHJ-10 | piece | 1~2 | Furui | MACRO/JC-CARTER | |
| Cryogenic valve | / | set | 1~2 | Furui | BESTOBELL/ HEROSE | |
| Refueling hose | DN25x4m | piece | 1~2 | Furui | / | |
| Gas return hose | DN15x4m | piece | 1~2 | Furui | | |
| Explosion-proof tools | / | set | 1 | China top brands | China top brands | |
| | | Insti | rument gas | system | | |
| Nitrogen cylinder | 40L | set | 2 | China top brands | China top brands | |
| | El | ectrical, a | automatic c | ontrol system | | |
| Control box cabinet | Explosion- proof | set | 1 | China top brands | China top brands | |
| PLC hardware | / | set | 1 | Siemens | Siemens /Schneider | |
| Frequency converter | 18.5KW | set | 1 | Siemens | Siemens /Schneider | |
| Temperature Transmitter | 4-20mA | set | 1 | Rosemount | Rosemount/E+H/Yokogawa/ Honeywell | |
| Pressure Transmitters | 4-20mA | set | 1 | Rosemount | Rosemount/E+H/Yokogawa/ Honeywell | |
| Explosion-proof solenoid valve | DC24V | set | 1 | SMC | SMC/CKD/ASCO | |
| Combustible gas alarm detector | / | set | 1 | China top brands | China top brands | |
| Flame detector (optional configuration) | / | set | 1 | China top brands | China top brands | |

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Product basic parameters

| Name | Parameters | Name | Parameters | |
|----------------------------|-----------------|---------------------|--|--|
| Product mode | FR-FS-S-CO/25m³ | | Three-phase AC380V 50HZ | |
| Design standards | GB/ASME | Using voltage | Single-phase AC220V 50HZ | |
| Working pressure | 1.6MPa | | Direct current DC24V | |
| Design pressure | 2.5MPa | Power | ≤20KW | |
| Pipe design | 10/00 | Dimension | 12192×2438×2591mm | |
| temperature | -196°C | Tank volume | 25m³ | |
| Applicable medium | LNG | Refueling speed | 8 ~ 80KG/min | |
| Ambient temperature | -40~60°C | Refueling tolerance | ±1.0% | |
| Submersible pump number | 1 | Basic function | 1.LNG refueling and metering; 2.BOG return gas metering; 3.LNG unloading; 4.Tank | |
| Refueling machine | 1 | | pressurization and saturation adjustment. | |
| number | | Optional functions | LNG unloading metering | |

Configuration list

| Name | Туре | Unit | Quantity | Recommended Brand | Optional brand |
|--|-----------------------|-------------|-------------|----------------------|--|
| | | Cry | ogenic pum | ıp skid | |
| Cryopump | / | piece | 1 | Cryostar | ACD/VANZETTI /Huzhou Sanjing /Hangzhou Xin |
| Vacuum pump pool | DWBC-00A | piece | 1 | Furui | / |
| Tank | 25m³ | piece | 1 | Furui | |
| Cryogenic mass flowmeter (optional configuration) | DN50 | piece | 1 | American Emerson | Switzerland E + H / KROHNE |
| Tank pressurized device | 300Nm ³ /h | piece | 1 | Truimph | Suzhou Xinrui / Huadi / Wuxi Enr |
| EAG reheater | 100Nm³/h | piece | 1 | Truimph | Suzhou Xinrui / Huadi / Wuxi Enr |
| Cryogenic valve | / | set | 1 | Furui | BESTOBELL/HEROSE |
| Steel pipes and accessories | / | set | 1 | China top brands | China top brands |
| | | Re | fueling met | ering | |
| Refueling operation box | Ex | set | 1 | China top brands | China top brands |
| Cryogenic mass flowmeter | DN25 | piece | 1 | American Emerson | Switzerland E + H / KROHNE |
| Cryogenic mass flowmeter | DN15 | piece | 1 | American Emerson | Switzerland E + H / KROHNE |
| LNG Refueling gun | DN25 | piece | 1 | Furui | JC-CARTER/American ACD/ MACRO |
| Refueling gun base | DJK-25A | piece | 1 | Furui | / |
| Gas return gun | DHJ-10 | piece | 1 | Furui | MACRO/JC-CARTER |
| Cryogenic valve | / | piece | 1 | Furui | BESTOBELL/ HEROSE |
| Refueling hose | DN25x4m | piece | 1 | Furui | |
| Gas return hose | DN15x4m | piece | 1 | Furui | |
| Explosion-proof tools | / | set | 1 | China top brands | China top brands |
| | | Instr | ument gas | system | |
| Nitrogen cylinder | 40L | set | 2 | China top brands | China top brands |
| | Ele | ectrical, a | automatic c | ontrol system | |
| Control box cabinet | Explosion- proof | set | 1 | China top brands | China top brands |
| PLC hardware | . / | set | 1 | Siemens | Siemens /Schneider |
| Frequency converter | 18.5KW | set | 1 | Siemens | Siemens /Schneider |
| Temperature Transmitter | 4-20mA | set | 1 | Rosemount | Rosemount/E+H/Yokogawa/ Honeywell |
| Pressure Transmitters | 4-20mA | set | 1 | Rosemount | Rosemount/E+H/Yokogawa/ Honeywell |
| Explosion-proof solenoid valve | DC24V | set | 1 | SMC | SMC/CKD/ASCO |
| Combustible gas alarm detector | / | Set | 1 | China top brands | China top brands |
| Flame detector (optional configuration) | | set | 1 | China top brands | China top brands |







Product basic parameters

| Name | Parameters | Name | Parameters |
|----------------------------|-----------------|------------------------|--|
| Product mode | FR-FS-S-CO/60m³ | | Three-phase AC380V 50HZ |
| Design standards | GB/ASME | Using voltage | Single-phaseAC220V 50HZ |
| Working pressure | 1.6MPa | | Direct currentDC24V |
| Design pressure | 2.5MPa | Power | ≤20KW |
| Pipe design -196°C -196°C | 10/90 | Dimension | 17800×3720×4000mm |
| | -140 C | Refueling speed | 8 ~ 80KG/min |
| Applicable medium | LNG | Metering tolerance | ±1.0% |
| Ambient temperature | -40~60°C | - | 1.LNG refueling and metering; 2.BOG return gas |
| Submersible pump number | 1 | Basic function | metering; 3.LNG unloading; 4.Tank pressurization and saturation adjustment |
| Refueling equipment number | 1~2 | Optional configuration | 1.LNGunloading metering, 2.is able to add one refueling machine; |

Configuration list

| Name | Туре | Unit | Quantity | Recommended Brand | Optional brand | |
|--|-----------------------|-------|----------|----------------------|--|--|
| Cryogenic pump skid | | | | | | |
| Cryopump | 1 | piece | 1 | Cryostar | ACD/VANZETTI /Huzhou Sanjing /Hangzhou Xin | |
| Vacuum pump pool | DWBC-00A | piece | 1 | Furui | 1 | |
| Tank | 60m ³ | piece | 1 | Furui | 1 | |
| Cryogenic mass flowmeter (optional configuration) | DN50 | piece | 1 | American Emerson | Switzerland E + H / Cologne, Germany | |
| Tank pressurized device | 300Nm ³ /h | piece | 1 | Truimph | Suzhou Xinrui / Huadi / Wuxi Enrui | |
| EAG reheater | 100Nm ³ /h | piece | 1 | Truimph | Suzhou Xinrui / Huadi / Wuxi Enrui | |
| Cryogenic valve | / | set | 1 | Furui | BESTOBELL/HEROSE | |
| Steel pipes and accessories | / | set | 1 | China top brands | China top brands | |

Name Туре Unit Qua Single gun refueling mad DN25 Cryogenic mass flowmeter piece 1~ Cryogenic mass flowmeter DN15 1~ piece LNG refueling gun DN25 1~ piece Refueling gun base DJK-25A piece 1~ Gas return gun DHJ-10 piece 1~ Cryogenic valve / 1~2 set Refueling hose DN25x4m piece 1~ Gas return hose DN15x4m 1~ piece Explosion-proof tools / set Instrument 40L set Nitrogen cylinder Electrical, automo Explosion-Control box cabinet set proof PLC hardware / set 18.5KW Frequency converter set Temperature Transmitter 4-20mA set Pressure Transmitters 4-20mA set Explosion-proof solenoid valve DC24V set Explosion-Control box cabinet set proof PLC hardware set /

Product Introduction of LNG Refueling Station Skid



| ntity | Recommended Brand | Optional brand | | | | |
|---------|----------------------|----------------------------------|--|--|--|--|
| chine (| able to add one s | et) | | | | |
| ~2 | American Emerson | Switzerland E + H / KROHNE | | | | |
| ~2 | American Emerson | Switzerland E + H / KROHNE | | | | |
| ~2 | Furui | JC-CARTER/American ACD / MACRO | | | | |
| ~2 | Furui | 1 | | | | |
| ~2 | American Emerson | Switzerland E + H / KROHNE | | | | |
| ~2 | American Emerson | Switzerland E + H / KROHNE | | | | |
| ~2 | Furui | JC-CARTER/American ACD / MACRO | | | | |
| ~2 | Furui | 1 | | | | |
| 1 | China top brands | China top brands | | | | |
| t gas s | system | | | | | |
| 2 | China top brands | China top brands | | | | |
| atic co | ontrol system | | | | | |
| 1 | China top brands | China top brands | | | | |
| 1 | Siemens | Siemens /Schneider | | | | |
| 1 | Siemens | Siemens /Schneider | | | | |
| 1 | Rosemount | Rosemount/E+H/Yokogawa/Honeywell | | | | |
| 1 | Rosemount | Rosemount/E+H/Yokogawa/Honeywell | | | | |
| 1 | SMC | SMC/CKD/ASCO | | | | |
| 1 | China top brands | China top brands | | | | |
| 1 | Siemens | Siemens /Schneider | | | | |
| | | | | | | |

20FT LNG Refueling tank container

40FT LNG Refueling tank container







Product basic parameters

| Product name | 20 feet | 40 feet | Product name | 20 feet | 40 feet | |
|-------------------------|-----------------|-----------------|--------------------|--------------------------------------|-----------------------------|--|
| Product mode | FR-FS-M-CO/20FT | FR-FS-M-CO/40FT | | Three-phase | Three-phase | |
| Design standards | ASME | ASME | | AC380V 50HZ | AC380V 50HZ | |
| Working pressure | 1.0MPa | 1.0MPa | Using voltage | Single-phase AC220V 50HZ | Single-phase AC220V 50HZ | |
| Design pressure | 1.15MPa | 1.15MPa | - | Direct current | Direct current | |
| Pipe design temperature | -196°C | -196°C | | DC24V | DC24V | |
| | 1.110 | 1.110 | Power | ≤20KW | ≤20KW | |
| Applicable medium | LNG | LNG | Refueling speed | 46 ~ 76KG/min | 46 ~ 76KG/min | |
| Ambient temperature | -40~60°C | -40~60°C | Metering tolerance | ±1.0% | ±1.0% | |
| Pipeline pumps quantity | 1 | 1 | Dimension | 6058×2438×2591 | 12192×2438×2591 | |
| Tank container volume | 19m³ | 41m³ | Dania franctica | 1.LNG refueling and | I metering; 2.LNG | |
| Refueling gun quantity | 1 | 1 | Basic function | unloading; 3.LNG self-pressurization | | |

Configuration list

| Name | Specification | Unit | Quantity | Brand | Optional brand |
|--|-----------------------------|-------|----------|------------------|----------------------------------|
| Tank container | 20FT/40FT | piece | 1 | Furui | / |
| Cryogenic valve | | set | 1 | Furui | HEROSE |
| Pressure gauge / level gauge | | set | 1 | Lanshi | WIKA |
| Centrifugal pump | | piece | 1 | VANZETTI | ACD/Cryostar/ Huzhou Sanjing |
| Flowmeter | DN25 | piece | 1 | Emerson | Switzerland E + H / KROHNE |
| LNG refueling gun | DN25 | piece | 1 | Furui | JC-CARTER/American ACD/ MACRO |
| Steel pipes and accessories | 1 | set | 1 | China top brands | China top brands |
| Refueling gun hose | DN25x4m | piece | 1 | Furui | / |
| Explosion-proof tools | | set | 1 | China top brands | China top brands |
| Nitrogen cylinder | 40L | set | 1 | China top brands | China top brands |
| Explosion-proof control box | PLC+ Frequency converter | set | 1 | Siemens | Siemens / Schneider |
| Pressure / differential pressure transmitter | 4~20mA | set | 1 | Rosemount | Rosemount/E+H/Honeywell |
| Temp. transmitter | 4~20mA | set | 1 | Rosemount | Rosemount/E+H/Honeywell |
| Explosion-proof solenoid valve | DC24V | set | 1 | SMC | SMC/CKD/ASCO |
| Combustible gas alarm detector | 1 | set | 1 | China top brands | China top brands |
| Flame detector (optional configuration) | 1 | set | 1 | China top brands | China top brands |

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Product basic parameters

| Product name | 39m³ | 44m³ | Product name | 39m³ | 44m³ |
|-------------------------|-----------------|-----------------------------|--------------------|---|--------------------------|
| Product mode | FR-FS-M-TR/39m³ | FR-FS-M-TR/44m ³ | | Three-phase AC380V 50HZ | Three-phase AC380V 50HZ |
| Design standards | EN/ASME | EN/ASME | Using voltage | Single-phase AC220V 50HZ | Single-phase AC220V 50HZ |
| Working pressure | 1.2MPa | 1.2MPa | - | Direct current DC24V | Direct current DC24V |
| Design pressure | 1.69MPa | 1.69MPa | - | Direct current DC24v | Direct current DC24V |
| Pipe design temperature | -196°C | -196℃ | Power | ≤20KW | ≤20KW |
| Applicable medium | LNG | LNG | Refueling speed | 8 ~ 80KG/min | 8 ~ 80KG/min |
| Ambient temperature | -40~60°C | -40~60°C | Metering tolerance | ±1.0% | ±1.0% |
| Pipeline pumps quantity | 1 | 1 | Dimension | 12350×2500×3900 | 13560×2500×3900 |
| Storage tank volume | 39m³ | 44m³ | _ | 1.LNG refueling and metering; 2.BOG return gas metering; 3.LNG unloading; 4.Tank self-pressurization | |
| Refueling gun quantity | 1 | 1 | Basic function | | |

Configuration list

| Name | Specification | Unit | Quantity | Brand | Optional brand |
|------------------------------|---------------|-------|----------|------------------|--|
| Tank container | 39m³/44m³ | piece | 1 | Furui | 1 |
| Cryopump | / | piece | 1 | Cryostar | ACD/VANZETTI/Huzhou Sanjing/Hangzhou Xin |
| Vacuum pump pool | DBC-00A | piece | 1 | Furui | 1 |
| Pressure gauge / level gauge | | set | 1 | Lanshi | WIKA |
| Cryogenic valve | | set | 1 | Furui | HEROSE |
| Moving mechanism | | set | 1 | China top brands | China top brands |

Specification Unit Name Quant Flow meter DN25 piece 1 Flow meter DN15 piece 1 Refueling gun DN25 piece 1 DHJ-10 Gas return gun piece 1 Cryogenic Steel pipes and / set 1 accessories Refueling gun hose DN25x4m piece 1 DN15x4m Gas return hose 1 piece Explosion-proof tools Piece 1 Refueling operation box Ex Piece 1 PLC+ Frequency Explosion-proof control box Set 1 converter Pressure / differential pressure 4~20mA Set 1 transmitter Temperature Transmitter 4~20mA Set 1 DC24V Set 1 Explosion-proof solenoid valve Combustible gas alarm detector Set 1 Flame detector (optional Set 1 configuration)

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| ity | Brand | Optional brand |
|-----|------------------|------------------------------|
| | Emerson | Switzerland E + H / KROHNE |
| | Emerson | Switzerland E + H / KROHNE |
| | Furui | JC-CARTER/American ACD/MACRO |
| | Furui | MACRO/JC-CARTER |
| | China top brands | China top brands |
| | Furui | / |
| | Furui | / |
| | China top brands | China top brands |
| | China top brands | China top brands |
| | Siemens | Siemens / Schneider |
| | Rosemount | Rosemount/E+H/Honeywell |
| | Rosemount | Rosemount/E+H/Honeywell |
| | SMC | SMC/CKD/ASCO |
| | China top brands | China top brands |
| | China top brands | China top brands |



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