

LNG 加液机液化天然气 LNG DISPENSER

防爆认证、计量器具型式批准证 CE、ATEX、PED、CPA、CMA





产品功能 Product Features

停电时可以保存数据，延伸显示时间和重复显示 能保存1000条记录可查询	Capable of saving the data when out of power, extending the display time and repeating display Capable of saving 1000 refueling records, which is queryable
可选打印机	Printer(Option)
配IC卡读卡器	Equipped with IC Card Reader
留有通讯口，可与气站管理系统连接	Leaves the communication ports, so it can communicate with the filling station management system
可根据要求定制	Can do OEM as required
可和手机联网，带GPS，随时通过手机更改单价	Can connect with mobile phone to check any data anywhere, also set unit price anytime.

主要技术参数 Technical Specification

工作环境 Ambient Temperature	-40°C~+55°C
管道温度 The pipeline Temperature	-196°C~55°C
相对湿度 Ambient Humidity	≤ 95%
电压 Power	AC220V (± 10%-15%), (50 ± 1Hz)
流量 Flow Rate	0~60kg/min
测量精度 Measurement Precision	± 1.0%
额定工作压力 Rated Working Pressure	1.6MPa
密度预设范围 Density Preset Range	0.5000-0.6999
充气预设范围 Gas-filling Preset Range	1~9900KG
额定功率 Rating Power	<100W
单价范围 Unit Price Range	0~9999
单次范围 Single Range	1~9900.00
累计范围 Accumulative Range	0~9999999999.99



LNG泵撬系统包括 LNG Skid includes:

LNG潜液泵（含泵池，单泵或双泵）、气动截止阀，BOG汽化器、储槽增压器、仪表系统、电控系统、保温管路、集装框架、LNG加液机等。

现场安装在简单方便时，仅需连接好进液管路、回气管路、出液管路、控制电缆、仪表气即可。

系统首次预冷完成后，可24小时待机、运行，即时加液。

流量：12-25m³/h (单泵) 扬程：140-240m

LNG submerged , LNG including pump pool , single pump or double pump , pneumatic stop valve , BOG vaporizer , storage tank booster , instrument system , electronic control system , thermal insulation pipeline , packaging frame and LNG dispenser , etc.

The on-site installation is simple and convenient , what is needed to do is connecting the fluid inlet pipeline , air return pipeline , fluid outlet pipeline , control cable and instrument air .

After the initial system precooling is finished , the system can be in standby ,working for 24 hours ; liquid shall be filled in case it is operated.

Flow : 12-25m³/h (single pump) Head : 140-240m



LNG加液机控制器
LNG Dispenser Controller



加液枪
LNG Filling Nozzle



LNG拉断阀
LNG Breakaway Valve



回气枪
Air Return Nozzle

主要用于LNG天然气加气站车载瓶的加注，LNG液化工厂，LNG接收站的LNG槽车充装、转运、输送。

潜液式泵主要用于要求介质零泄漏的工况。机组为离心式机组。

LNG submerged pumps are mainly used for filling of vehicle-mounted cylinders at LNG natural gas stations, filling, transport and delivery of LNG tank wagons at LNG liquidation plants, LNG receiving stations. Submerged pumps are mainly used for working conditions that require zero leakage of medium. The units are centrifugal units.

适用范围 Applicability

LNG天然气加气站、LNG接收站	LNG stations
LNG杜瓦瓶的充装	Filling of LNG bottles
LNG液化工厂槽车充装	Filling of LNG liquidation plant tank wagons
LNG转运、输送	Transport, delivery of LNG
LNG零泄漏环境	LNG zero leakage environment



主要技术参数 Technical Specification

流量 Flow : 2-200m³/h

扬程 Head : 15-450m

转速 Rotating speed : 1000-6000r/man

性能特点 Performance features

潜液式机组整体放入真空容器，完全浸没于介质中，没有动密封，保证了零泄漏，减少了机组的冷损，可以实现快速启动

进口设置有诱导轮，极大的减小了对系统装置汽蚀余量NPSHa的要求

导叶为多流道导叶式结构,实现了水力径向力的自平衡

电机与泵部分为一整体，电机为高速变频电机，提高了泵的工作范围

轴承采用进口低温轴承，技术成熟，寿命16000h以上

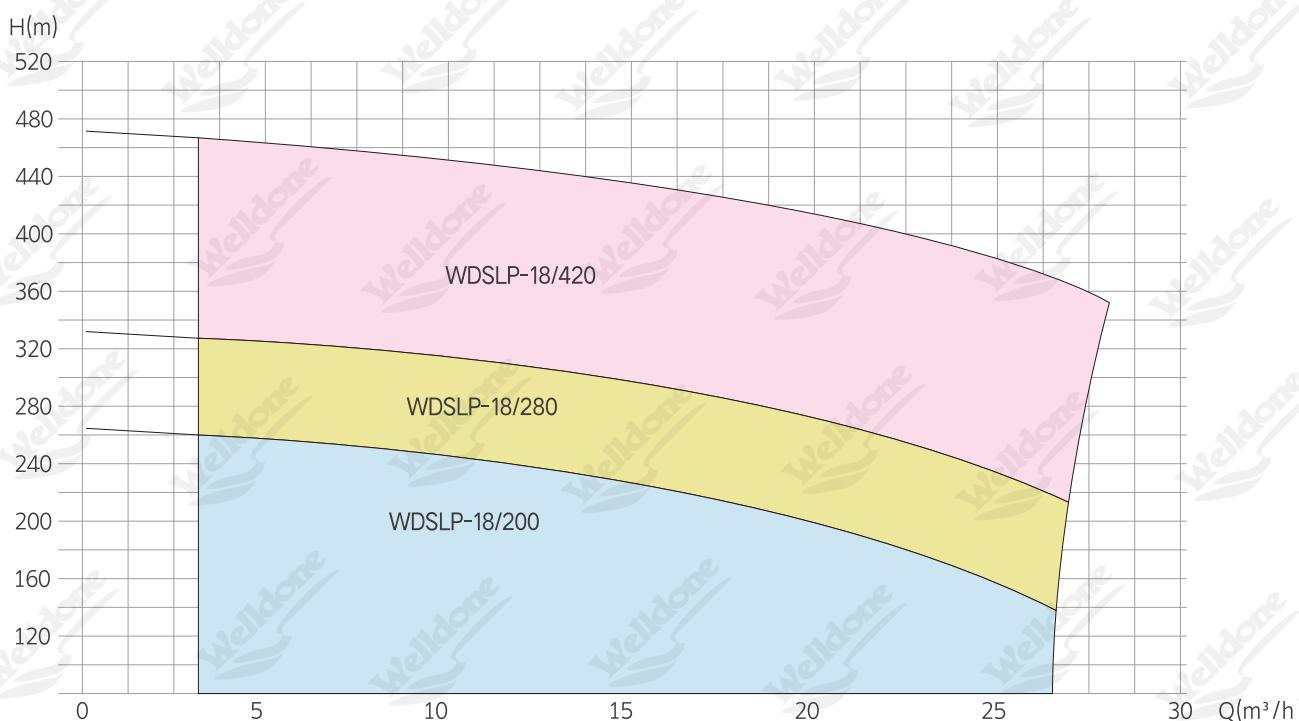
The submerged set immersed unit is placed in a vacuum container and completely immersed in the medium. There is no motive seal, which guarantees zero leakage and reduces the cold loss of the unit. And it can realize a rapid start.

The inlet is equipped with an inducer, which greatly reduces the requirement on the NPSHa of the system device.

The guide vane has a multiple runner guide vane type structure, which realizes the self-balancing of hydraulic power radial force.

The motor and the pump are an entirety. The motor is a high speed variable frequency motor, and it enhances the working range of the pump. The bearings are imported and low-temperature type.

性能图 Performance figure





螺纹金属软管



快换式金属软管



真空软管

性能特点 Performance features**真空软管技术设计**

真空软管可以按现场情况调整供液系统位置，真空软管弯曲半径小

保冷效果好，使用时软管外表不结水，不结霜

真空软管两端配以贮槽和槽车专用快速接头

有特殊需求的客户定制特殊结构形式的真空绝热软管真空软管运用

真空软管主要应用:槽车充排液体;贮槽与低温用液设备之间硬连接的转换;真空硬管与低温用液设备之间的转换。

真空管运用行业:工业气体、医学、生物学,电子、航空、汽车,餐馆、饮料等行业,输送液氮(LIN)、液氩(LAr)、液氧(LOX)、液化天然气(LNG)

真空软管选材:内外层均为特种优质不锈钢金属软管(SUS304)、夹层中采用目前先进的专用多层绝热材料、导热系数低的支撑

Vacuum hose technology design

The vacuum hose can adjust the position of the liquid supply system according to the site conditions, and the bending radius of the vacuum hose is small
The cooling effect is good, and the surface of the hose does not form water or frost when in use

Both ends of the vacuum hose are equipped with special quick connectors for storage tanks and tankers

Customers with special needs customize vacuum insulation hoses with special structures and vacuum hoses

Vacuum hoses are mainly used: filling and discharging liquids in tankers; conversion of hard connections between storage tanks and low-temperature liquid equipment; conversion between vacuum hard pipes and low-temperature liquid equipment.

Vacuum tube application industries: industrial gases, medicine, biology, electronics, aviation, automobiles, restaurants, beverages and other industries, transporting liquid nitrogen (LIN), Liquid argon (LAr), liquid oxygen (LOX), liquefied natural gas (LNG)

Material selection of vacuum hose: The inner and outer layers are made of special high-quality stainless steel metal hose (SUS304), and the interlayer adopts the current advanced special multi-layer thermal insulation material and supports with low thermal conductivity.

管道规格 (mm)	公称通径	DN10	DN15	DN20	DN25	DN32	DN40	DN50	DN65	DN80	DN100
内管	φ10	φ15	φ20	φ25	φ32	φ40	φ50	φ65	φ80	φ100	
外管	φ34	φ40	φ52	φ64	φ84	φ104	φ125	φ150	φ185		
工作压力	根据用户需要设计≤3.2MPa										
设计温度	-270° C										
工作介质	LO2、LN2、LAr、LH2、LHe										
内、外筒材质	SUS304										
结构形式	高真空多层绝热										
夹层压力	<0.004Pa										
管道真空漏率	<2 × 10 ⁻¹⁰ PaL/S										
使用环境温度	-30C~50C										
内管强度试验	根据工作压力进行										
气密性试验	根据工作压力进行										
设计依据	1.根据国家有关标准和Q/XLT001-2008标准 2.按用户提供的低温液体输送管道系统布置图要求进行										

订货示例:HYDY(长度) 10(通径) L1000(产品代号)

低温潜液离心泵容器(泵池) Cryogenic submersible centrifugal pump container (pump pool)



加液站用泵池



泵池生产现场

适用介质：液氮、液氦、液体天然气(LNG)

使用范围：LNG汽车加气站

主要技术参数：流量:2m³/h-20m³/h; 扬程:30m-300m

LNG接受站：充装、贮槽;液体输送;用于要求介质零泄漏的工况

可选配置：真空绝热套;变频调速器;蚀保护装置

性能特点：泵体和电机完全浸没在介质中，从而杜绝了产品的损失、并保证了泵的快速启动

 真空绝热套使冷损降至极限，创造了完全的工作条件

 无密封及浸润型设计使维护要求降至最低

 直立型的设计使泵运转更稳定，运转寿命更长

 可变频调速的电机扩展了泵的工作范围

LNG潜液泵 LNG submersible pump

适用介质：LN₂, LAr, LNG及其它介质

可选配置：真空绝热套; 变频调速器;

主要技术参数：流量为2m³/H~20 m³/H ; 扬程: 30M~300M ; 进口压力 0.1MPa-0.5MPa ; 电机功率: 11KW ; 转速: 6000r/min

使用范围：LNG汽车加气站、LNG接受站;充装贮槽;液体输送;用于要求介质零泄漏的工况;

性能特点：泵体和电机完全浸没在介质中，从而杜绝了产品介质的损失，并保证了泵的快速启动;

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LNG是液化天然气，一种透明、无色、无毒的液体，当天然气冷却至-162°C (-260°F)时形成。这将天然气的体积缩小了600倍，使其更容易储存和运送到海外能源匮乏的城镇和城市。

移动式LNG加液机将LNG填充到LNG车辆中。它可以安装在移动卡车上的一个滑轨中。

LNG is liquefied natural gas, a clear, colourless, non-toxic liquid that forms when natural gas is cooled to -162°C (-260°F). This shrinks the Volume of the gas 600 times, making it easier to store and ship to energy-hungry towns and cities overseas. Mobile LNG dispenser, rt-lng112m, is designed to fill the

Mobile LNG dispenser is filling LNG into LNG vehicles in LNG stations. It can be fitted into one skid on a mobile truck.



产品功能 Product Features

电子校准	Electronic Calibration.	语音和打印机（选项）	Voice and printer (option).
加液次数限制功能	Fueling times limit function.	锁泵功能	Function of locking pump.
停止通过整数销售加油	Stop fueling by integer sale.	可与IC读卡器通讯	Can communicate with the IC card reader.
设置显示的小数点，因此可以在多个不同货币汇率的国家使用			
保留通讯接口，可与加油站管理系统通讯			
GPRS功能，可和手机联网，通过手机查看数据和设置单价			
Can set the decimal point for the display, so can be used in many country with different currency rate.			
Leaves the communication ports, so it can Communicate with the gas station management system.			
Can connect with mobile phone , to check any data any time , set unit price through mobile phone			

主要技术参数 Technical Specification

外形尺寸 External Dimension	2200×1080×580mm
环境温度 Ambient Temperature	-40°C~+55°C
湿度 Humidity	≤ 95%
最大流量 Max Flow	50kg/m
准确度 Accuracy	± 0.10%
重复精度 Repeating Accuracy	≤ 0.15%
工作压力 Working pressure	20Mpa
最大压力 Max pressure	25Mpa
电源 Power	AC110V ± 20%, AC220V ± 20%, AC380V ± 20% (50Hz)
噪音 Noise	≤ 70dB(A class A级)
单价范围 Unit price range	0~9999, 0~999999 (changeable 可变)
单一范围 Single range	1~9999.99, 1~999999.99(changeable 可变)
累计范围 Accumulative range	0~9999999999.99

LNG气化调压供气站 LNG gasification pressure regulating gas supply station



LNG气化调压供气站主要设备：

LNG储罐、BOG储罐、卸车台。卸车增压器、储罐增压器、主空温式汽化器（水浴式汽化器）BOG加热器、EAG加热器、LNG调压计量加臭装置、中央控制系统、安全放散及安全切断系统、管道、消防避雷及其他辅助设备组成。LNG气化调压一体撬工艺流程：将LNG槽车内的液化天然气，通过卸车增压器把车内的液体卸至LNG储罐，使用时、利用储槽的自增压系统，将储槽的压力升高，然后排放到空温式汽化器进行气化，最后通过加臭、调压计量送到管网、为城镇居民、工业窑炉、厂矿企业以及应急调峰供气。用完液体后，储槽内气体及及储存期间产生的气体排放到BOG加热后送入总管网。

The main equipment of LNG gasification pressure regulating gas supply station include:

LNG tank, BOG tank, unloading platform. Unloading supercharger, storage tank supercharger, main air temperature vaporizer (water bath vaporizer) BOG heater, EAG heater, LNG pressure regulating, metering and odorizing device, central control system, safety release and safety cut-off system, pipeline, Fire-fighting lightning protection and other auxiliary equipment. LNG gasification and pressure regulation integrated skid process: unload the liquefied natural gas in the LNG tanker to the LNG storage tank through the unloading supercharger, When using, use the self-pressure system of the storage tank to raise the pressure of the tank and then discharge it to the air-temperature carburetor for gasification, finally sent to the pipeline network through odorization, pressure regulation and metering, to supply gas for urban residents, industrial furnaces, factories and mines, and emergency peak-shaving. After use up the liquid, the gas in the storage tank and the gas generated during storage are discharged to the BOG for heating and then send to the main pipe network.

ABOUT US

关于我们



我们是生产加油(加气)站设备,在氢能源,液化天然气,压缩天燃气,液化气,燃油,尿素,充电桩,家用储能设备,工商业储能设备都有很大的发展和成果。如果你也是同道中人,如果你也对新能源感兴趣。欢迎来到汇洋能源! 我们拥有多项认证,如ISO、CE、ATEX、PED、TUV、PEI、CPA、CMA、防爆认证等。我们拥有自己的专利和版权。愿我们的产品,我们的服务,能留在您深深的脑海里。最好的质量,最好的服务和最优惠的价格,是我们的服务宗旨。期待您的光临!

We are the gas station equipment supplier in Hydrogen Energy , Liquid Natural Gas , Compressed Natural Gas, Liquid Petrol Gas, Fuel,Adblue,EV Charger ,Home Energy Storage ,Industrial Energy Storage area .

If you are doing the same range business ,if you are interested in new energy , welcome you to visit us !

We have many certificates like ISO,CE,ATEX,PED,TUV,PEI,CPA,CMA,Explosion proof certificates and so on. We have our own Patent and copyrights.

Wish our products ,our service can give you a strong impression .

Well Quality We Done ! Well Service We Done ! Well Price We Done !
We are WELLDONE GROUP.



CNG DISPENSER CE



LNG DISPENSER CE



FUEL DISPENSER CE



LPG DISPENSER CE



LNG DISPENSER EXPLOSION PROOF



CNG DISPENSER EXPLOSION PROOF



RADIOGRAPHIC EXAMINATION REPORT



EV CHARGER TUV

HONORARY CERTIFICATE



LNG DISPENSER ATEX



MOBILE GAS
STATION ATEX



FUEL DISPENSER ATEX



SUBMERSIBLE TURBINE
PUMP ATEX



LNG DISPENSER PED



JUNCTION BOX ATEX



Adblue Dispenser CE



POSITIVE DISPLACEMENT
METER CE



MASS METER ATEX



MOBILE GAS STATION CE



PEI MEMBER CERTIFICATE



FACTORY ISO



FACTORY ISO



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PQR TEST REPORT



PATENT CERTIFICATES FOR
MANAGEMENT SYSTEM



CNG DISPENSER PAC



LNG DISPENSER PAC



3D Show



Video account



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