



中国船级社
CHINA CLASSIFICATION SOCIETY

证书编号/Certificate No.
JS25PTB00197_01

型式认可证书 CERTIFICATE OF TYPE APPROVAL

兹证明本证书所述制造厂具备按照下列标准的要求生产本证书所列产品的能力和条件。

This is to certify that the manufacturer stated in the certificate meets the requirements of the standards listed below and is available with the ability and conditions to produce the products described in the certificate.

制造厂/Manufacturer

宜兴佳仁低温科技有限公司
Yixing JRN Cryogenic Technology Co., Ltd.

地址/Address

江苏省宜兴市周铁镇兴达路10号
No. 10, Xingda Road, Zhoutie Town, Yixing City, Jiangsu Province

产品名称/Product

铝制板翅式低温热交换器
Aluminumplate-fin Low Temperature Heat Exchangers

认可标准/Approval Standard

1. 中国船级社《钢质海船入级规范》第3篇 第2、6章
Chapter 2&6, Part Three of China Classification Society Rules for the Classification of Sea-going Steel Ships
2. 中国船级社《散装运输液化气体船舶结构与设备规范》第3篇 第5、6、7章
Chapter 5,6&7, Part Three of China Classification Society Rules for construction and equipment of ships carrying liquefied gases in bulk
3. 中国船级社《船舶应用天然气燃料规范》第3、6章
Chapter 3&6 of China Classification Society Rules for Ships Using Natural Gas Fuels
4. 中国船级社《材料与焊接规范》第1篇第8章
Chapter 8, Part One of China Classification Society Rules for Materials and Welding
5. NB/T47006 -2019《铝制板翅式热交换器》
NB/T47006 -2019 Aluminumplate-fin heat exchangers

用于/Intended for

国内航行海船/Domestic sea-going ship , 国际航行海船/International sea-going ship

证书有效期至/This Certificate is valid until 2030年09月15日/ Sep. 15,2030

发证机构 中国船级社江苏分社
Issued by CCS Jiangsu Branch

签发日期 2025年09月16日
Date Sep. 16,2025

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Form No: T01.

联系方式/Contact Us, 见本社官方网站/See official web site of the Society (<http://www.ccs.org.cn>)



UTN:P025-12611159

产品明细/Product Description

热交换器/Heat Exchanger (M0001)

名称/Name	属性(值)/Value	单位/Unit
型号/Type	BC-H-16000/2.4	
设计压力/Design Pressure	2.4/-0.1	MPa
设计温度/Design Temperature	-196~65	°C
换热面积/Heat Exchange Area	A: 7593; B: 849; C: 7962	m ²
工作介质/Working Medium	A: 氮气、氦气; B: 天然气; C: 氮气、氦气 A: Nitrogen, Helium; B: Natural Gas; C: Nitrogen, Helium	
板片材料/Plate Material	铝合金/Aluminum alloy 3003	
垫片材料/Gasket Material	铝合金/Aluminum alloy 3003	
壳体材料/Casing Material	铝合金/Aluminum alloy 5083	

批准的图纸/Approved Drawings

图纸批准号/ Drawings Approval No. : NP25PPP00987, NP25PPP00987_1

产品认可试验报告/ Approval Test Report

试验报告编号/ Test Report No. : TT202509001

试验报告日期/ Test Report Date : 2025-09-14

试验单位/ Laboratory: 宜兴佳仁低温科技有限公司 Yixing JRN Cryogenic Technology Co., Ltd.

试验单位地址/ Test Address: 江苏省宜兴市周铁镇兴达路10号 No. 10, Xingda Road, Zhoutie Town, Yixing City, Jiangsu Province

认可后的产品检验方式/ Method of Product Inspection after Approval

按规范认可后应进行产品检验的产品/The product should be inspected in term of the rules:

认可后的产品检验应由本社验船师根据本社规范规定按批准的产品检验计划进行检验, 经检验合格后由本社颁发船用产品证书。

After approval, product inspection should be carried out by the Surveyor of the Society in accordance with the approved product inspection scheme, and the Marine Product Certificate will be issued by the Society upon satisfactory inspection.

认可保持条件/ Maintenance Requirements of Approval

1. 型式认可后, 如果产品及其重要零部件的设计、所用材料或制造方法有所改变, 且影响到产品的主要特性、特征; 或产品的性能指标有所更改, 且超过认可的范围, 则有关图纸和文件应经检验机构审批。并在检验机构认为必要时, 经本社检验人员见证有关试验和进行检查, 其结果应能证实仍符合认可条件。

After type approval, if there are changes to the design, materials used or manufacturing method of the product and important components and such changes affect major characteristics and properties of the product, or property indexes of the product are changed and exceed the scope of approval, related drawings and documents are to be examined and approved by the concerned survey office. Where deemed necessary by the survey office, the surveyor to the Society will go to witness relevant tests and conduct inspection and the results should be able to demonstrate compliance with the approval conditions.

2. 工厂的质量管理体系应保持有效运行, 并且与认可时一致。如果质量管理体系发生改变, 应经原体系认证机构审核并报本社批准。

The quality management system of the factory shall be ensure effective operation, and shall be the same as the situation of approval. If there are any changes to the quality management system, auditing of the original certification organization for quality management system and the society's approval shall be obtained.

3. 认可证书有效期内, 如果出现可能导致本社取消认可的情况, 工厂应及时采取有效的纠正措施。

Within the validity of the approval certificate, if cases occur that may cause the Society to withdraw the approval, the manufacturer should take corrective actions in a prompt and effective manner.

4. 在认可证书有效期内, 本社检验人员可在未经事先通知的情况下对工厂的产品制造过程进行审核, 以验证产品的生产是否符合业经本社批准的图纸和文件。工厂应予以配合。

Within the validity of the approval certificate, the surveyor to the Society may pay unannounced

audit to the manufacturing process of the product in order to confirm whether it is in compliance with the drawings and documents approved by the Society. The factory should provide an active cooperation and necessary for the surveyor.

备注/Remarks

本产品如应用在与LNG直接接触的管路，表面须包覆耐火绝热层。

If the product is used in direct contact with LNG, the surface should be covered with a fire resistant insulation material.

本社已审核了产品厂无石棉声明，但本社的审核不免除产品厂按照合同关系向订货方保证产品无石棉的责任。

The declaration of asbestos-free submitted by manufacturer has been reviewed by the Society. However, liability of the manufacturer to guarantee the products are asbestos-free to purchaser under contract will not be exempted.

中国船级社江苏分社
CCS Jiangsu Branch

