



JOYWELL

HVAC SYSTEM

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Production capacity



Marine AC workshop



Special AC workshop



Fan workshop

Production capacity

Five components processing workshops

Sheet metal - Metalworking - Evaporator and condenser - Electric appliance- Paint shop



Production capacity

Advanced tooling equipment



Numerical control laser cutting machine



Numerical control fin processing line



Numerical control bending machine



Painting Room



Straightening and cutting machine



Nisshinbo high speed thick rotation tower numerical control punch



Messer numerical control plasma cutting machine



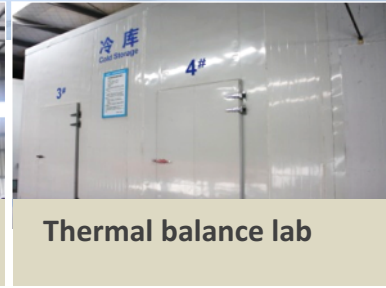
Numerical control full-automatic pipe bending machine

Inspection capability

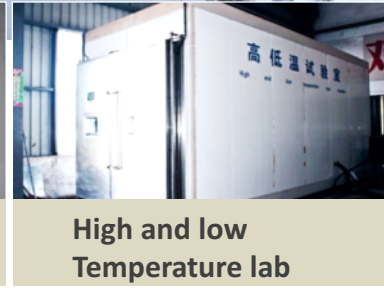
We have established a complete set of equipment, testing means advanced testing system, including:
5 laboratories : artificial environment lab, centralized control room, enthalpy difference lab, high and low temperature lab, thermal balance lab;
2 test platform : fan test platform、 water chiller unit test platform.
We systematically to control product quality to ensure the product factory qualified rage was 100%



Artificial environment lab



Thermal balance lab



High and low Temperature lab



Water chiller unit test platform



Fan test platform

Inspection capability

- At the same time, we have a complete test system and equipment .

Pump room cold/ hot water pipeline



Eddy current flaw detector

Refrigeration test system



Helium detector

Balance machine



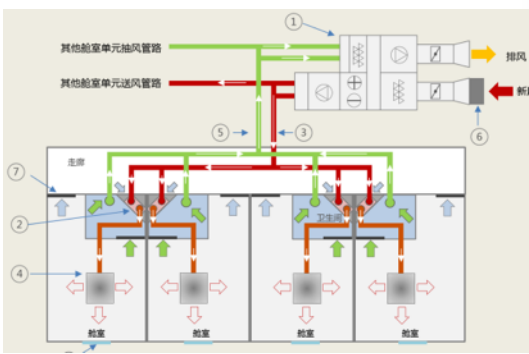
Strictly according to ISO9001:2000 quality assurance system operation, the fine management into all aspects of production, to ensure product quality in the industry leading position

Product Display

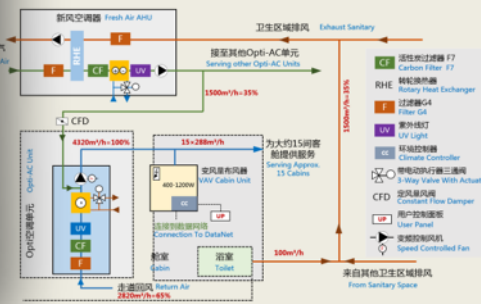
IDFC air conditioning system



- Excellent air quality
- low noise
- Meet the temperature control requirements of a single compartment
- energy conservation
- Perfect control
- Provide more space for the cabin
- Reduce passenger area maintenance



IDFC- Intelligent Decentralized Fan Coil



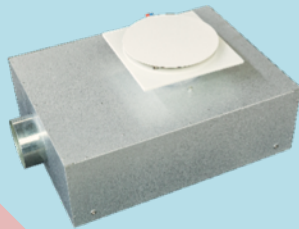
Opti-AC Optimized Air Conditioning system

VAV Air conditioning system

VAV air conditioner

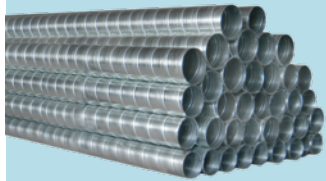


VAV terminal device

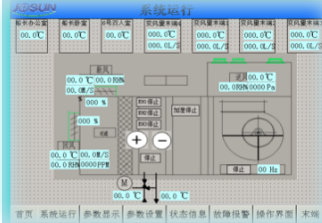


system configuration

Air duct system



Automatic control system



- According to the load change of the air conditioning room, the air flow rate of the terminal device of the air conditioning system is adjusted in real time, and the air temperature of the air conditioning room is basically unchanged.
- The frequency conversion fan is used for air conditioner, when the demand air quantity reduces, the fan automatically adjusts the rotational speed, reduces the system to send the air quantity, realize the energy conservation and reduces the air conditioning system operation noise.

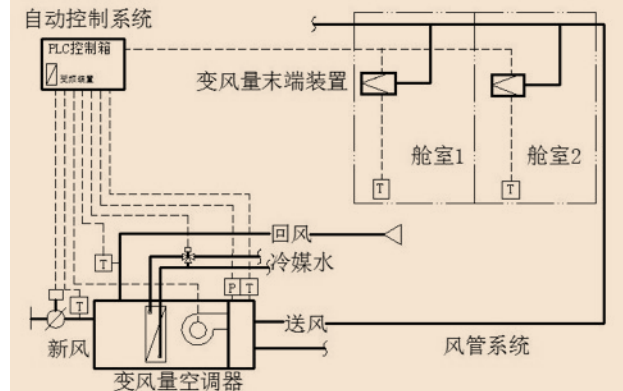
Comfortable and healthy

Intelligent and flexible

Energy saving and noise reduction

monitoring convenience

Green environmental protection





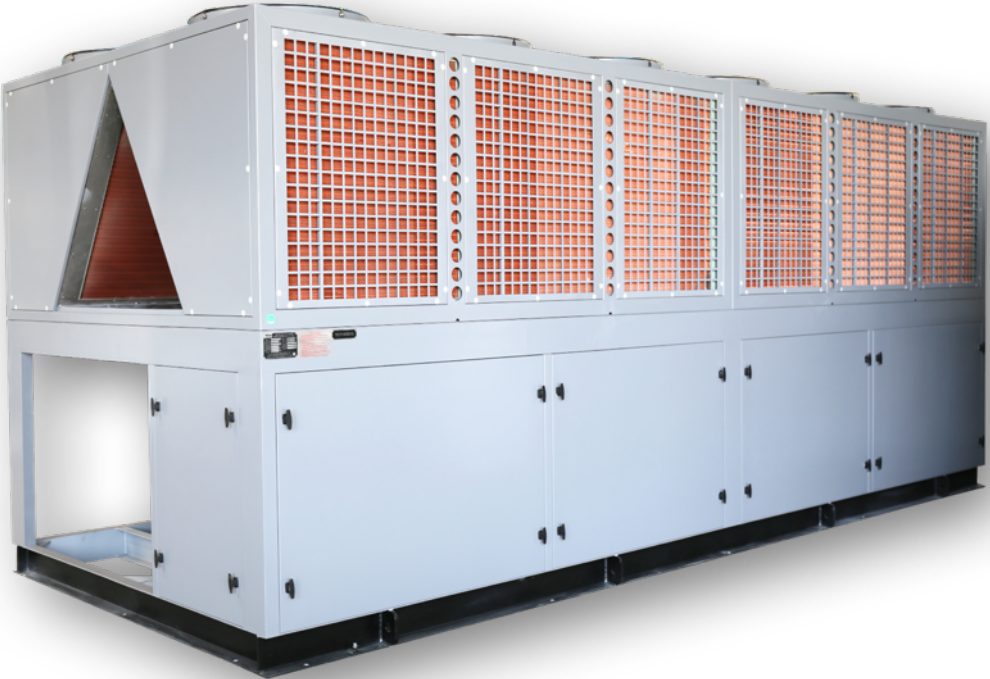
Water-cooled chiller

cooling capacity

From 12KW to 1580KW

We studied deeply on corrosion leakage of chillers, make the products more reliable.

- a. Reasonable design process optimization of condenser, condensing tube arrangement, strict control of sea water flow in a reasonable range
- b. Optimize the design of the condenser end cover
- c. Reasonable setting of anti erosion block to improve the function of sacrificial anode
- d. Using a Teflon sheath into the tube to protect the condenser pipe, preventing seawater erosion.



Air-cooled chiller cooling capacity
From 12KW to 1580KW



Condensing unit

cooling capacity

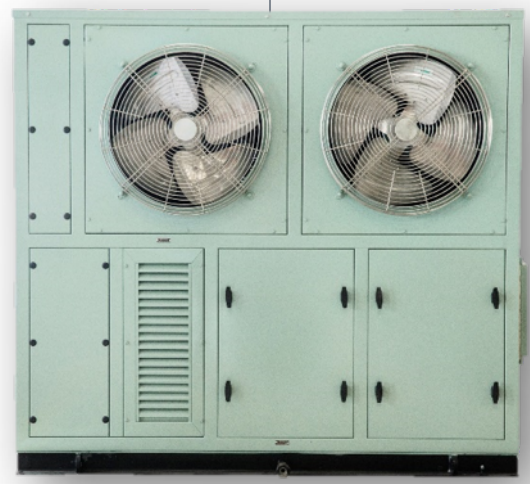
23 kW ~ 350kW



Packaged air conditioning
Cooling capacity : 23 kW ~ 350 kW



Water-cooled assemble air conditioning



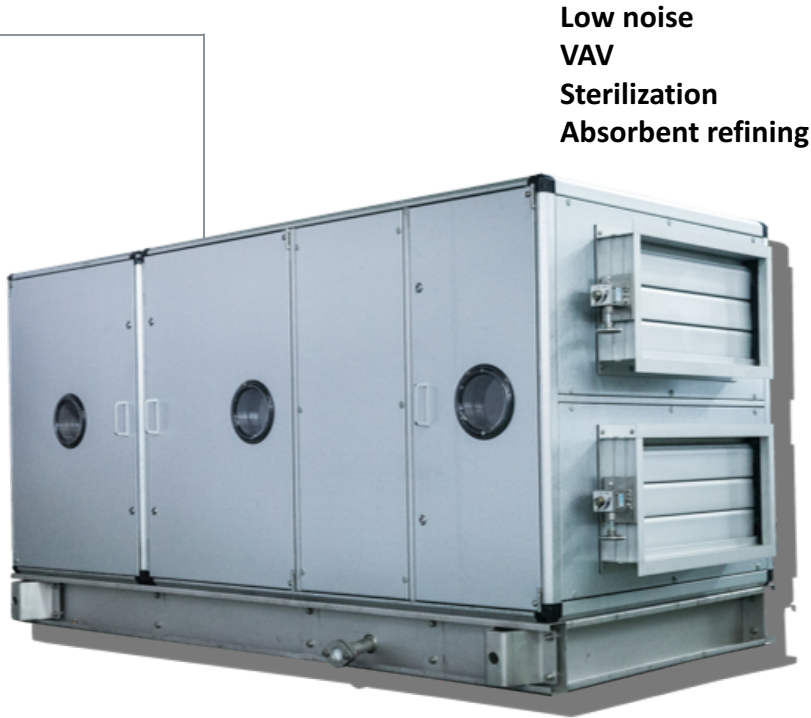
Air-cooled assemble air conditioning

Air conditioning system : AHU
Cooling capacity : 23 kW ~ 350 kW



Fresh air frequency heat recovery AHU

wheel heat recovery



Sterilization silencing frequency packaged air conditioner

Low noise
VAV
Sterilization
Absorbent refining



Computer and data processing room Unit
type air conditioner

Control room environment

temper
ature
 $\pm 1^{\circ}\text{C}$

RH
 $\pm 5\%$

Improve equipment life and
reliability

Self-contained air conditioner
Cooling capacity
From 2KW to 58KW



Low noise self-contained AC Unit
Noise to 46dB



split type
air conditioning



Small-sized air conditioning

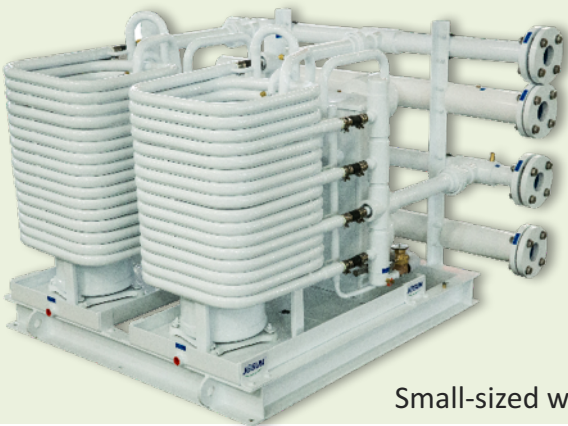


Small-sized condensing unit

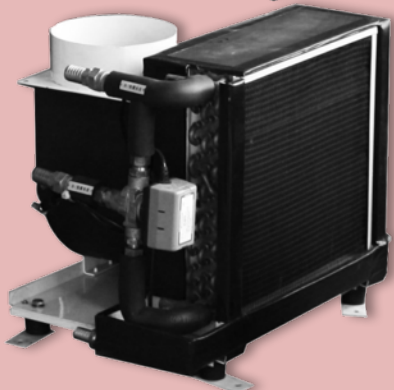


Light equipment

Small-sized water chiller



Fan coil





Automatic exhaust constant pressure water supply device

provide cold, heat medium water for the central air conditioning system , and automatic process level pressure, exhaust, water supply for the water system.

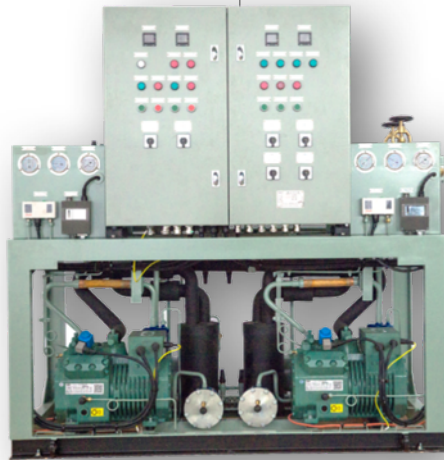
Highly integrated

Simple and easy to use

Intelligent automatic

Efficient protection

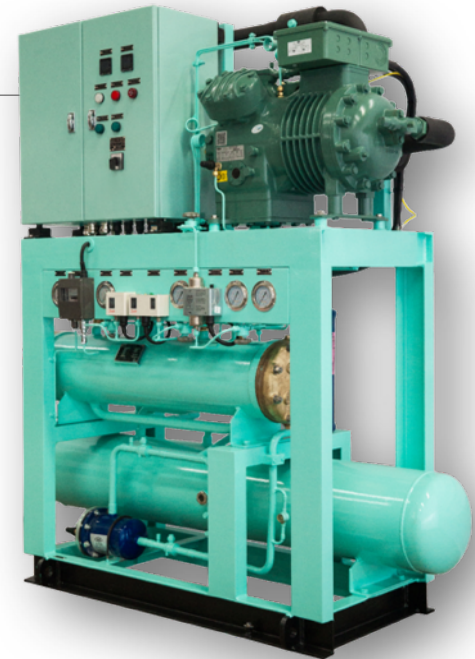
Refrigeration system
Cooling capacity 2KW-112KW



Refrigeration plant



Air cooler



Cryogenic device

Air flow : 110m³/h~220000m³/h
The EX-fan through Europe ATEX EX-ATEX



Jet Flow Air Supply Cooling Device



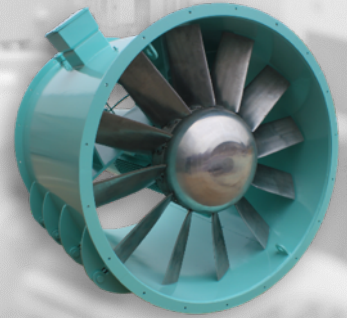
Hydraulic Driven Fan



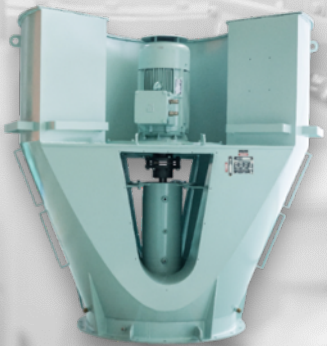
Heating fan



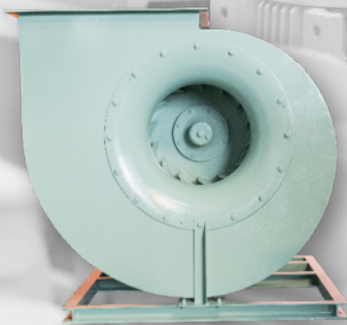
Ex-proof axial fan



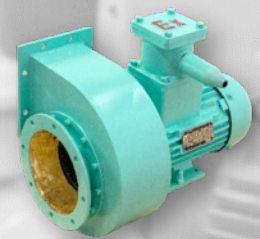
Axial fan



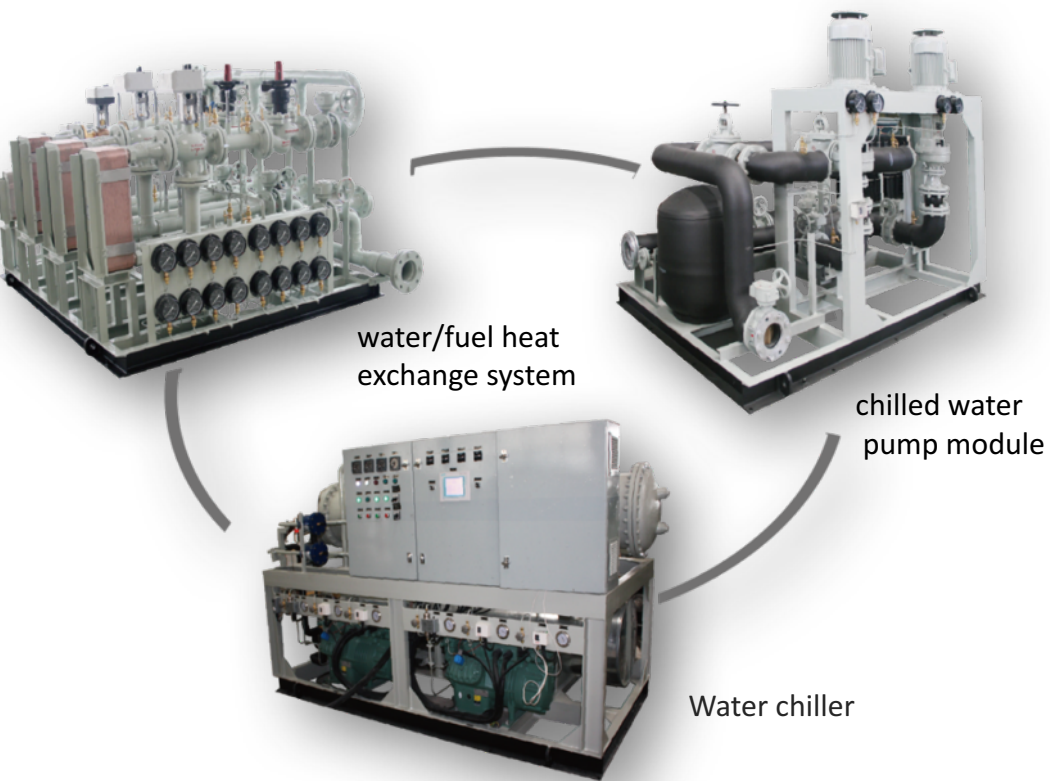
Deck fan



Centrifugal fan



Ex-proof centrifugal fan



With cascade cooling and other core technologies

- Breaking through the technical bottleneck of the product in the aspect of ensuring efficiency, control precision and miniaturization of device.

Product technology up to the domestic leading level

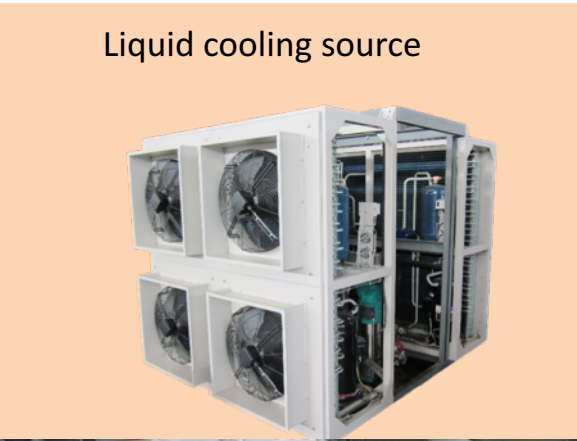
- Meet the mandatory requirements of IMO for ship emissions, **belongs to the country and Jiangsu province science and technology industry planning key support domain**, Its industrialization has great significance to promote the development of China's shipbuilding industry.

Product Display—Dehumidifier



Special Air Conditioning

Liquid cooling source



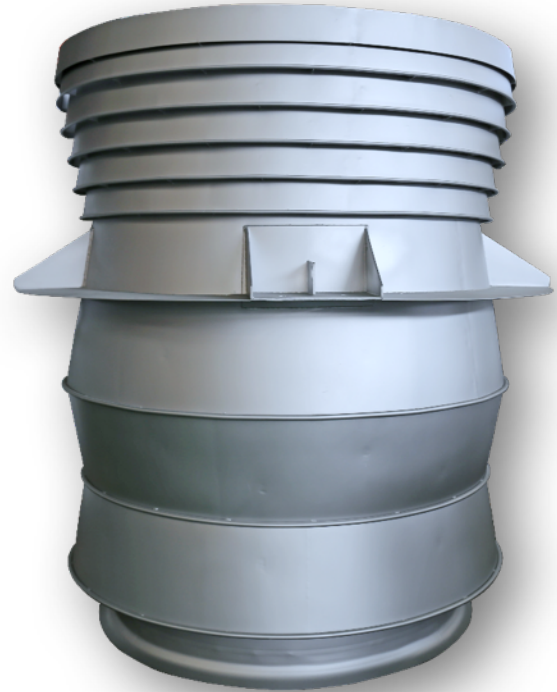
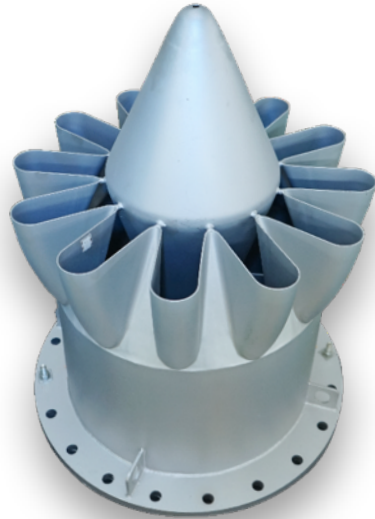
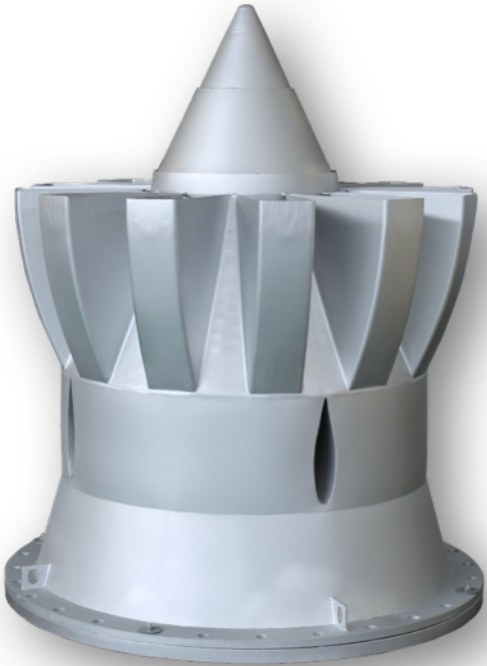
Wind cooling source



shelter air conditioning



Product display—Infrared suppression device





Seawater source heat pump hot water tank

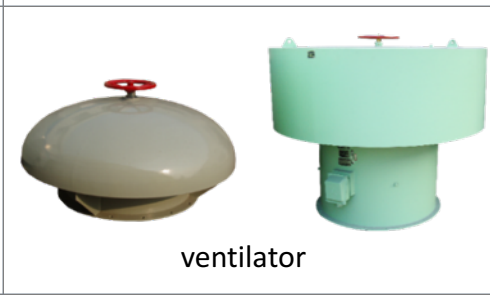
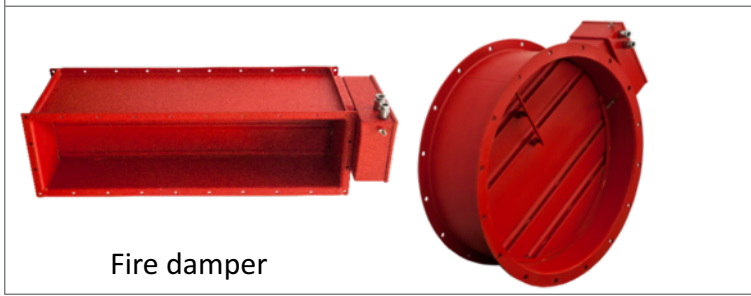
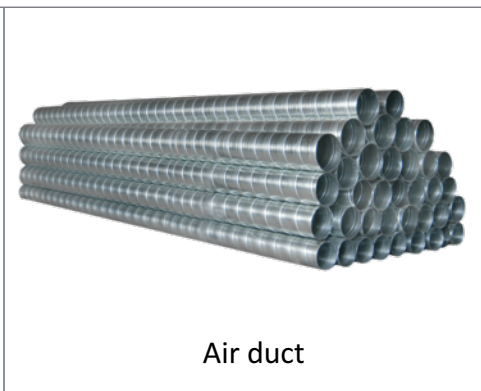
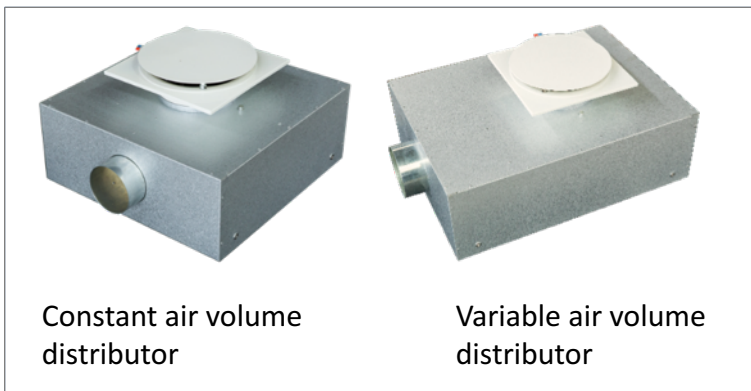
Absorb the heat of the low heat source from sea water by using heat pump technology ,transfer to high heat can be used, in order to achieve the purpose of water heating life.

energy
conserv
ation

safty

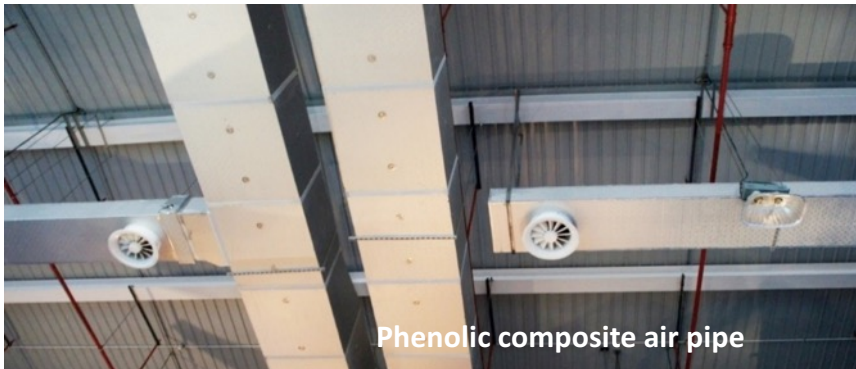
easy

Save
space



Ventilation accessories

Product display—Rubber insulation system



Typical Performance



Naval ship

Typical Performance



Chunxiao platform



FPSO



Caofeidian11-1



Offshore oil 981

Maritime work

Typical Performance



Yuanwang No.3

Yuanwang series of **ocean space survey ship**



Yuanwang No.6



Yuanwang No.7

Science Exploitation

Typical Performance



Dayang NO.1

Varies types ocean science exploitation, survey vessel



Marine NO.6



Snow Dragon

Science Exploitation

Typical Performance



2302 (3000ton)



2501 (5000ton)



Coast guard series vessel



2901 (10000grades)

Official business

Marine bureau series vessel



Official business

Typical Performance

Salvage,
minister



Official business

Typical Performance



« 180000 tons bulk cargo ship

16000 tons passenger ship »



72000 tons oil tanker
»



« 4250 tons TEU

Bohai ferry series passenger ship
»



3500 tons
Stainless steel
chemical vessel
«



Merchant ship

Three Gorges Group

Jiangsu Xiangshui wind farms



Offshore wind power

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	Thailand 泰国			
	Malaysia 马来西亚			
	Myanmar 缅甸			
	India 印度	V V KAY MARINE PVT LTD	101, MEHDI BUILDING, GODEYVARI STREET, VISAKHAPATNAM	Tel:0091-891-2521244, FAX:0091-891-2797917, Mob:0091- 93481 91902 Email: vvkumar@vvkaymarine.co. service@josun.cn
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Service Network—International service network

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Service Network—International service network

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	Slovenia 斯洛文尼亚			
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Service Network—International service network

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