

# GRF4

Water-cooled panel



## ► Overview

The GRF4 water-cooled panel is a heat dissipation device designed specifically for high-power converters in ships, such as DC switchn boards, propulsion inverters, and variable frequency power supplies. It uses water circulation to remove the heat generated during equipment operation, ensuring its stable operation in high-temperature environments. Suitable for power systems of new energy vessels such as hybrid container ships, electric cruise ships, etc.

The product meets the specifications of domestic and foreign classification societies, as well as GB/T 3783-2019 "Basic Requirements for Low Voltage Electrical Appliances for Ships".

## ► Product features

- Efficient heat dissipation and strong power guarantee
- Intelligent control, safe and worry free operation
- Excellent quality, crafted with strict standards
- Flexible adaptation and worry free widespread application

## ► Product composition

The GRF4 water-cooled panel is mainly composed of cooling circulation pump, heat exchanger (plate cooling), expansion water tank, pressure transmitter, pressure gauge, temperature sensor, valve, leakage sensor and other components.

## ► Technical index

- Working voltage: AC380V/AC440V
- Working frequency: 50/60Hz
- Cooling power: 40kW-300kW
- Protection grade: IP23, IP44
- Surrounding temperature: -5°C ~ 45°C
- Sea water temperature: ≤32°C
- Design pressure: 6bar
- Standard sizes that can be selected are shown in the following table

Model	Cooling Power	F.W. flow	Working pressure	S.W. flow	Outline dimensions( mm)
GRF4-040	40	120 l/min	3bar	150 l/min	600×2000×600
GRF4-120	120	360 l/min	3.3bar	450 l/min	900×2000×600
GRF4-300	300	900 l/min	3.6bar	1125 l/min	1200×2000×800



Service Hotline 400-101-5915

#### ► Model naming

Product code	GRF	<input type="checkbox"/> -	<input type="checkbox"/> <input type="checkbox"/>
Serial number			
Cooling power			

#### ► Selection description

The size means the frame size, without the thickness of the door plate, excluding the base and hoisting part. Specific requirements can be customized according to the customer technical data.

GRF4 water-cooled panel, with a cooling power of 40kW.