CHEMGASOIL
INDUSTRIAL SOLUTIONS
Engineering Trust • Delivering Solutions Worldwide

PRODUCT CATALOG

Heat exchangers and cooling systems

We supply heat exchangers made by our partner factory, a specialised manufacturer with more than 70 years of experience. Each unit is designed for the project: marine engines, power generators, compressors, petrochemical processes and heavy machinery.



CHEMGASOIL INDUSTRIAL SOLUTIONS (HONGKONG) LIMITED
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Overview

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2,000+
standard sizes and models

20,000
units per year production capacity

520 °C
maximum design temperature

≈20,000 m²
heat-transfer area of one large unit

INDUSTRIES WE SERVE

Marine · Power generation · Petrochemicals and refining · Air separation · Metallurgy · Compressors · Construction machinery · Railway

CERTIFICATES

Certificates, codes and class approvals — agreed for each order in the quotation and contract

ENGINEERING

Thermal, strength and stress calculations; drawings and datasheets for your approval before manufacturing



Marine

Coolers for main and auxiliary marine diesel engines, central cooling systems and deck machinery.



Charge air cooler for medium-speed diesel engine



Charge air cooler, finned-tube core



Charge air cooler with plate-fin core



Charge air cooler for marine diesel engine



Marine lube oil cooler



Marine condenser



Titanium plate cooler for central cooling system



Plate-fin cooler for deck cranes and windlasses

Power generation

Air and hydrogen coolers for hydro- and turbo-generators up to 770 MW, oil coolers and auxiliary systems for nuclear power plants.



Air cooler for hydro-generator



Air cooler for turbo-generator



Generator air cooler, long core



Air cooler for hydro-generator



Fuel oil cooler for nuclear power plant



Condensate tank deaerator system



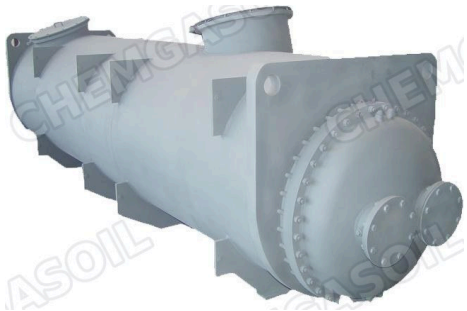
Hydrogen cooler for turbo-generator



Generator cooler, compact design

Petrochemicals, air separation and process compressors

Intercoolers and aftercoolers for large centrifugal compressors in air separation plants, condensers and lube oil modules for refineries and chemical plants.



Multi-stage compressor intercooler



Intercooler for air separation compressor



Aftercooler for process compressor



Intercooler for centrifugal compressor



Shell-and-tube condenser



Lube oil module for petrochemical plant



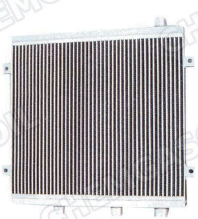
Shell-and-tube aftercooler

Compressors, construction machinery and railway

Plate-fin and shell-and-tube coolers for screw and piston compressors, excavators, cranes and locomotives.



Oil and air cooler for mobile screw compressor



Air cooler core for screw compressor



Aftercooler for piston compressor



Shell-and-tube oil cooler for screw compressor



Cooling module for locomotives



Cooler for locomotives and multiple units

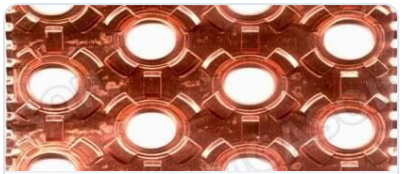


Large-scale units

Large intercoolers for engine test facilities: heat-transfer area of one unit close to 20,000 m², inlet temperature up to 350 °C, design temperature 520 °C, vacuum operation. Oversized units are delivered under special transport permits.

Heat-transfer elements

The partner factory develops and makes its own heat-transfer elements, so each exchanger can be matched to the duty.



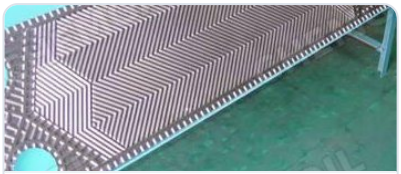
DS-series fins



WS-series perforated fins



QS-series fins



Plates for plate heat exchangers



Enhanced and finned tubes

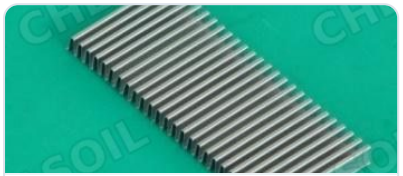
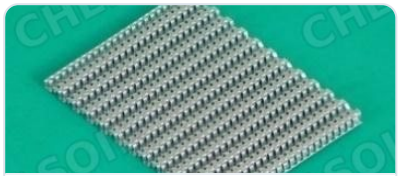


Plate-fin elements



Serrated fin elements



Liquid-side enhancement inserts

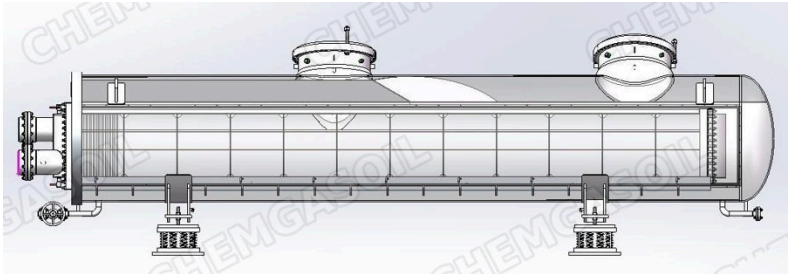


High-efficiency turbulators

Special materials



All-titanium heat exchanger for seawater cooling, mounted outside the hull



Duplex stainless steel exchanger for corrosive cooling water (Cl^-, NH_3, SO_4^{2-}) in petrochemical and air separation compressors

Manufacturing



Assembly of a large air cooler



Shell-and-tube unit in the workshop



Vacuum brazing furnace



CNC machining center



CNC flame cutting



CNC waterjet cutting



Shot-blasting line

HOW TO ORDER

Send us the medium, flow rate, temperatures and pressures, and we will propose a suitable design.

Photos show typical units made by our partner factory. Final design, size and materials are agreed for each order.

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