

# PLATE & SHELL HEAT EXCHANGER



# CORPORATE STRUCTURE

IES Group was established in 1998 and headquartered in Hong Kong.

IES Group is a manufacturer of various types of heat exchangers, as well as automated control system integration. We have over 20 years of industry experience, with R&D, manufacturing, sales & service as a whole package. Our design & products follows ISO9001:2008, ISO14001:2015, ISO3834, BS PD5500 and other related industry standards.

With extensive experience in the stainless steel industry, and with impressive client credentials, IES provides a full spectrum of energy effective heat exchanger products to address the requirements of different industries: HVACR, food and drinking processing, pharmaceutical and sanitary. We have a strong and proven track record in providing consulting, designing and manufacturing heat transfer solutions all around Asia.

IES is actively participating into the research and development of "Green Energy" and is offering new energy saving products, such as the solar water heating system. IES had also developed a web-based heat exchanger sizing software – IESPro to facilitate user selection such as consultant / OEM / contractor engineer.

## INTERNATIONAL STANDARDS OF QUALITY

Complete customer satisfaction is our goal, and IES strives to develop, implement, maintain and enhance effectiveness of our products to the highest international standards.



# Intelligent Selection Software IESPro

IESPro is a superior design software for selection of Heat Exchanger. IESPro immediately identifies the best heat exchanger for various applications. Meanwhile, IESPro also presents at least 6 alternative models for user consideration. User can set the priority of requirements for selection the Heat Exchanger like price, height or weight. IESPro can ensure the selection is always up-to-date as the latest design and product range will be updated in real time.



www.ies-pro.com

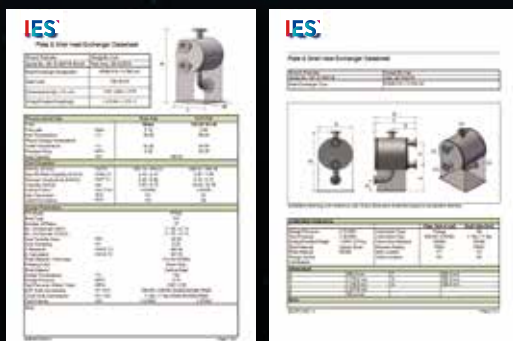
IESPro can be accessed by authorized users through internet.



Input different parameters such as working media, flow rate, temperature, operating pressure, heat load, etc hence to size the heat exchanger.



Costing and budgeting function are provided by IESPro for different users like OEM, consultant and trading company.



Technical Datasheet and dimension drawing can be saved or printed out during the selection process for easy reference.

# OUR PRODUCTS



IES products are designed for high performance and sustainability, with minimal maintenance. All of our products are constructed with high graded stainless steel ( 304/316L or Ti ), which is well known for its durability. Our products combine advanced technology and innovative designs tailoring for a wide range of commercial and industrial applications.

We manufacture a wide range of heat exchangers, pressure vessels and calorifiers. Our engineering and production teams can assist you to design and manufacture heat exchangers that will best match your application requirements and specification.

# BENEFITS OF THE HELIUM SNIFFER LEAK DETECTOR

The helium sniffer leak detector is used for quality testing of the IES Plate & Shell heat exchangers, which for continuous sniffer applications in demanding production environments and the highest sensitivity even at larger distances.

- Ensure reliable production processes
- The smallest leak detection in the current market
- Environmental interference resistance and high reliability
- Precise localization of leak and indication of the leakage size
- Meet the highest quality standards to help achieve our quality management objectives



# ■ PLATE & SHELL HEAT EXCHANGER

In the heart of the Plate & Shell heat exchanger is a fully laser welded pack of circular plates, where pressure containment is achieved through using a strong and unique shell construction. With its construction, the IES Plate & Shell heat exchanger combines the best features of Plate Heat exchanger and Shell & Tube exchanger.

## High pressure and high temperature capability

With its round and fully welded construction, IES Plate & Shell heat exchangers offer a durable solution that can withstand high pressures and temperatures.

## Compact size

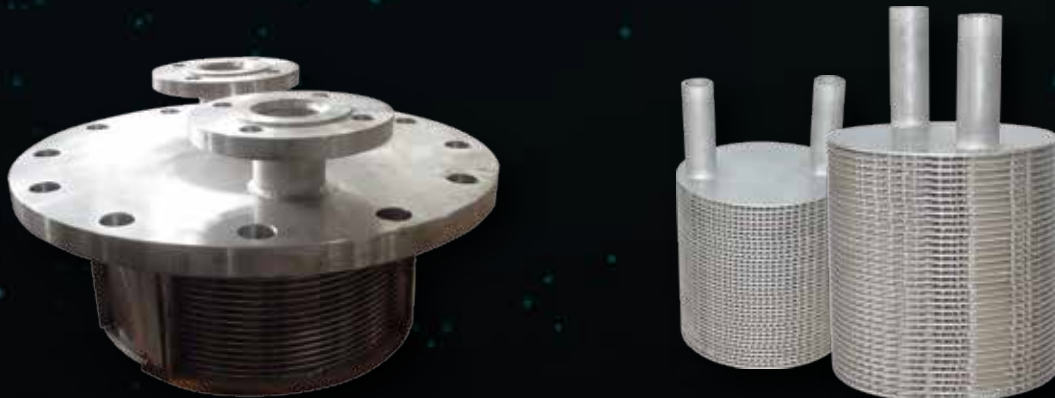
The compact size of the IES Plate & Shell heat exchangers minimizes installation, operating and maintenance costs, which again saves energy and is environmental friendly.

## Robust and gasket-free construction

The gasket-free construction is durable enough for the harshest conditions and prevents maintenance issues and no leakages in very high / low pressures and temperatures.

## High thermal efficiency

The construction of the IES Plate & Shell heat exchangers creates high turbulence between the plates, which enables very high thermal efficiency. This allows user to take full advantage of a compact heat transfer solution in the extreme conditions of temperature and pressure, which was not possible with the traditional compact heat exchangers.



## PRODUCT SPECIFICATION

- Design pressure: vacuum, and 10,16,25,40,63,100Bar
- Design temperature: -200 ~ 500°C
- Temperature difference:  $\leq 2^{\circ}\text{C}$
- The thickness of the plate: 0.6 ~ 0.8mm

## PRODUCT MATERIAL

- Plate: 304,316L,Ti,Hastelloy,SMO254, etc
- Shell: Q345R,304,316L,Hastelloy,SMO254, etc
- Customized to the customer's requirement

## PRODUCT APPLICATION

- Evaporators
- Condensers
- Heaters
- Waste heat recovery, etc

## PRODUCT RANGE

- Plate & Shell - Fully welded
- Plate & Shell - Openable

## PRODUCT MODEL



# CERTIFICATE



ISO3834



ISO3834



ISO14001



Manufacture License of Special Equipment



PD5500



ISO9001



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NANJING

SHANGHAI

FUJIAN

GUANGZHOU

SHENZHEN

HONG KONG

MACAU

DONGGUAN

WUHAN

CHENGDU

SINGAPORE

## IES Engineering (Hong Kong) Limited

Unit 1, 1/F, Precision Manufacturing Centre, 3 Dai Hei Street, Tai Po Industrial Estate, Tai Po, New Territories, Hong Kong

Tel: 852 2992 0830      Fax: 852 2992 0860  
E-mail: [info@ies-group.com.hk](mailto:info@ies-group.com.hk)

## REPRESENTATIVE OFFICE MACAU

Tel : 853 2830 0112      E-mail : [sales@ies-group.com.mo](mailto:sales@ies-group.com.mo)

## SINGAPORE

Tel : 65 6338 4613      E-mail : [sales@ies-group.com.sg](mailto:sales@ies-group.com.sg)

## GUANGZHOU

Tel : 86 20 838 11745      E-mail : [sales@ies-group.com.cn](mailto:sales@ies-group.com.cn)



[www.ies-group.com.hk](http://www.ies-group.com.hk)