



# Improving life through creative solutions





Sondex Australia believe in the strength afforded in that of a business partnership. We understand the principles of a win – win relationship and that a satisfied customer is our goal, not a sale. We aim always to exceed our customer expectations and provide satisfaction in all our dealings.

*Sondex is your trusted engineering partner  
into the future.*



**SONDEX<sup>®</sup>**  
Sondex Australia PTY LTD

# A company with vision

Sondex was established in 1984 with a strong mission; to strive to be the best and keep every single promise to the customer.

Today, Sondex Australia is well known for its impeccable performance, innovative products and for its indelible credibility. The only PHE company which is certified to ISO9001:2008/2015 and AS/NZS4801-2001.





# Sondex a truly international company

## About us

Since 1984, Sondex has reemphasized real-time commitment to global expansion and leadership in the plate heat exchanger market. Our increasing presence is felt across the world with a network of sister companies punctuating important cities in USA, Australia, New Zealand, Romania, France, UAE, Poland, Netherlands, Italy, Germany and more countries are coming on line each year.

Our heat exchangers are designed and built according to high quality standards and flawless performance backed by years of efficient and reliable service. We work closely with consultants, contractors and owners to ensure that our products are customised to fit predetermined expectations and uncompromising performance specifications. Manned by a highly efficient team of over 750 employees with a proven track record the company is poised to meet the escalating demands of industry.

## Our mission and vision

We strive to achieve the optimum solution, energy conservation and performance efficiency concentrating on three key areas:

## Quality products

Every unit is manufactured by state-of-the-art production technology. Our products are acclaimed for their thermodynamics efficiency, unique design features, reliability and value competitiveness in the market.

## Global expertise

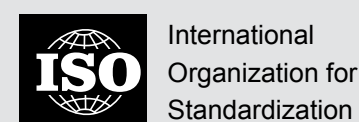
We have the expertise in heat transfer ranging from oil and gas, marine, offshore, industrial, food and dairy, HVAC to a host of other applications.

## Round-the-clock services

Sondex products are the hallmark of time-tested performance. Across our value added deliverables, we offer a support and technical service second to none.

## What quality and standards are on offer

- ISO 9001
- PED
- CE
- DIN
- ASME U
- NZ/AS1210
- GL
- Lloyds Register
- DNV
- ABS
- JIS
- 3A
- Bureau Veritas
- CCS
- Korean Register
- Class NK
- RINA
- Sondex Standard





# While someone was sleeping, we became No. 1



Eureka Tower - the tallest apartment building in the world



## Sondex HVAC

The brand has grown and achieved an indelible presence in Europe, USA, SE Asia and the Middle East. Our sister companies in USA, UAE, Poland, France, Netherlands, Italy, Germany and Romania provide a strong network of agents and suppliers on a global scale.

With a working team of over 750 employees, the company is well prepared to meet the escalating demand of industry.

Petronas Towers, Kuala Lumpur, Malaysia







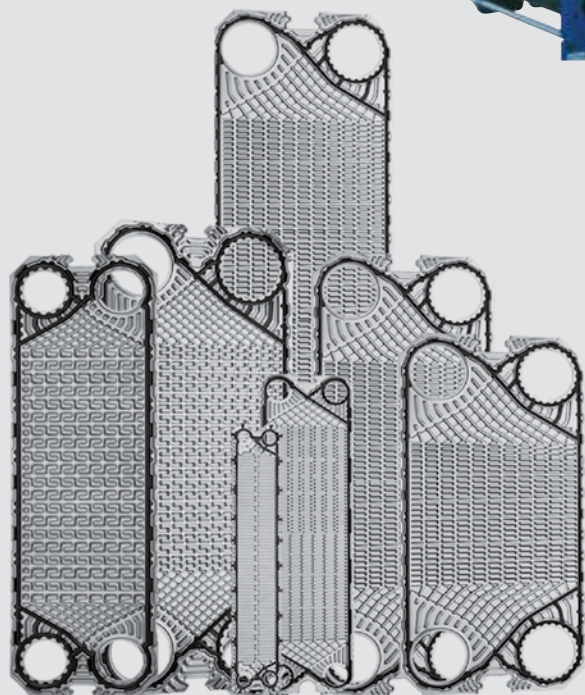
# Sondex Products

**Plate Heat Exchangers** are made up of a series of assembled corrugated plates. Between the plates there are two channels with a cold and warm medium. These pass on each side of the plates and in opposite direction to each other. Our product portfolio includes various types of plate heat exchangers and freshwater distillers such as:

- Gasketed
- Semi-welded and fully welded
- Brazed
- Free Flow
- Plate and Shell
- Shell and Tube
- Fresh Water Distillers (FWD)

## Gasketed Plate Heat Exchangers

These are used for a large number of applications, sealed with rubber gaskets.



## Semi-welded and Fully Welded

These facilitate maximum performance. The SAW heat exchanger is built into a frame with its welded plate pack. The perfect solution for heat transmissions duties, which cannot be handled by normal gasketed plate heat exchanger due to unbearable design temperature and design pressure. Also due to a want of suitable gasket material for the media which is essential for the heat exchanger.



## Brazed Plate Heat Exchangers

These have been developed to cope with higher pressures and temperatures.

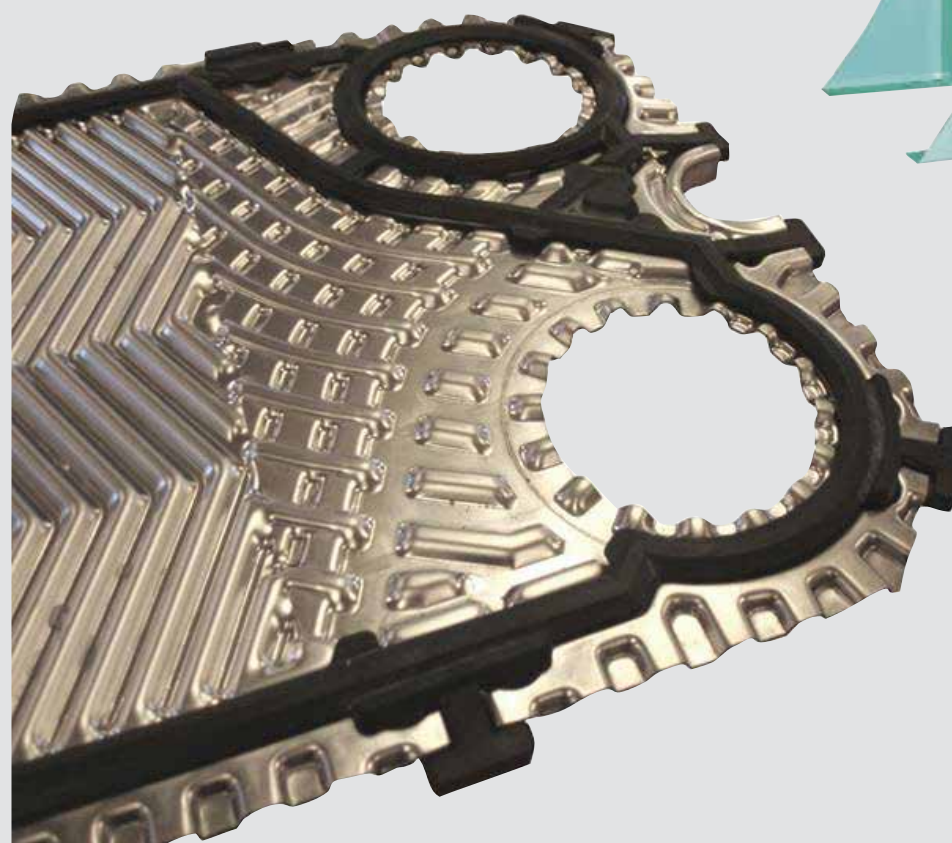


## Double Walled Plate Heat Exchangers

These operate on the theory of visual leak detection and functions without pressure regulating equipment.

## Fresh Water Distillers

These utilise steam or waste heat for conversion of salt water to fresh potable water.







# Sondex Sanitary

## Food, Dairy and Beverage

- 3A Sanitary 316ss Plates for Food, Dairy & Beverage
- Service agreements, technical support, on/off site maintenance and troubleshooting
- Effective Milk Cooling Solutions
- Free hot water on heat recovery systems



**Sondex Sanitary Pumps can be used with advantage in the processing of many products:**

- Apple juice
- Beer
- Buttermilk
- Butter oil
- Condensed milk
- Cream
- Egg white
- Egg whole
- Egg Yolk
- Evaporated milk
- Fruit juice
- Juice
- Milk
- Molasses solution
- Tomato ketchup
- Whey
- Wort
- Yeast Cream
- Yogurt







# Mining and Process

Sondex has kept pace with the growing demands in the heat exchange market by adapting and evolving its own innovative design and manufacturing of plates for the oil and gas industry. In its quest for the best, Sondex offers a wide range of shell and plate, all welded and gasketed plate heat exchangers which have proven to meet the most stringent requirements.

Our plates have carved out a niche in the heat transfer industry, due to their competitive price, compact size and optimal maintenance. Clients in the oil and gas sectors trust our expertise because of proven performance.

## Applications

- Desalting Process
- Desulphurization
- Soyabean Oils
- Bio-Diesel
- Crude Oil Desalting
- Fluid Catalytic Cracking
- Petrochemical Industries
- Refrigeration Plants
- Wastewater Treatment
- Vegetable Oil
- Mineral Oil
- Gas Dehydration
- Gas Compression
- Chemical Processing
- Steel Industries
- Liquor Processing

## Benefit

- Reduction in leakage
- Reduction in maintenance and operating cost
- Use of corrosive resistant materials
- Reduction in fouling
- The herringbone pattern in Sondex Plate and shell ensures turbulent flow.
- Use of laser, MAG or TIC welded

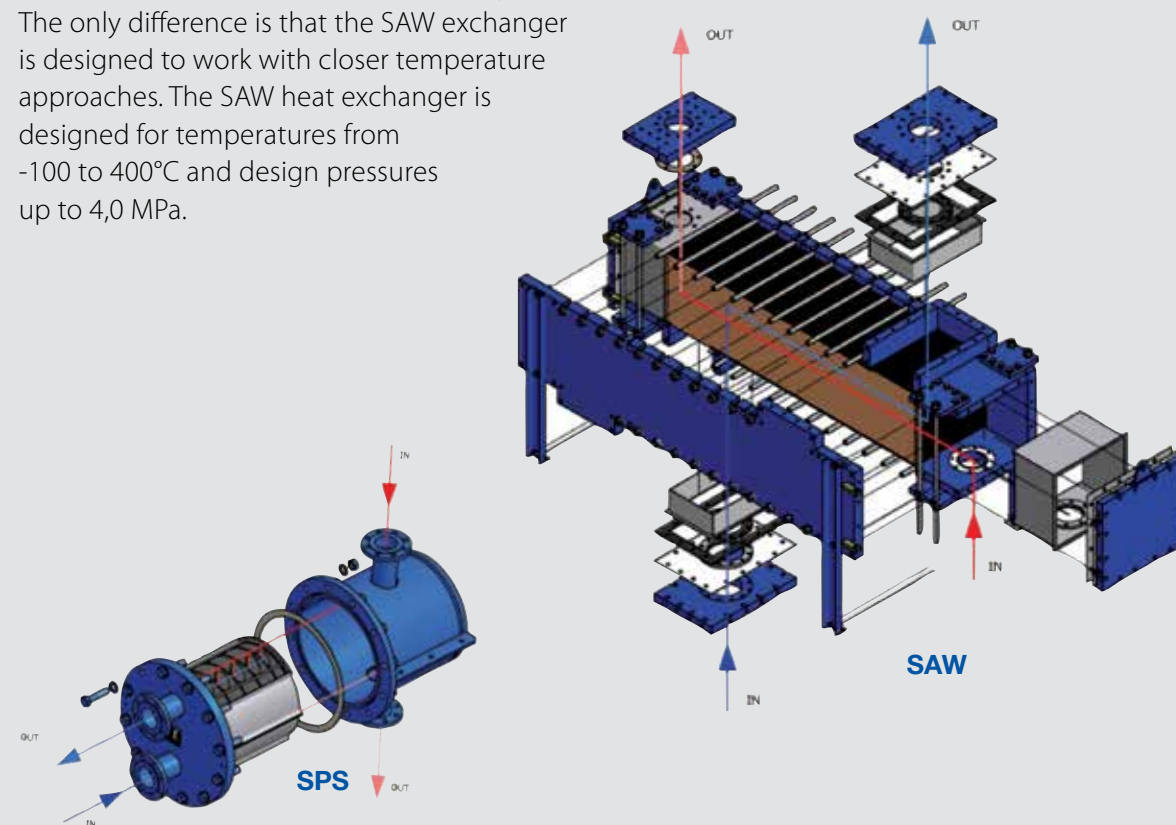


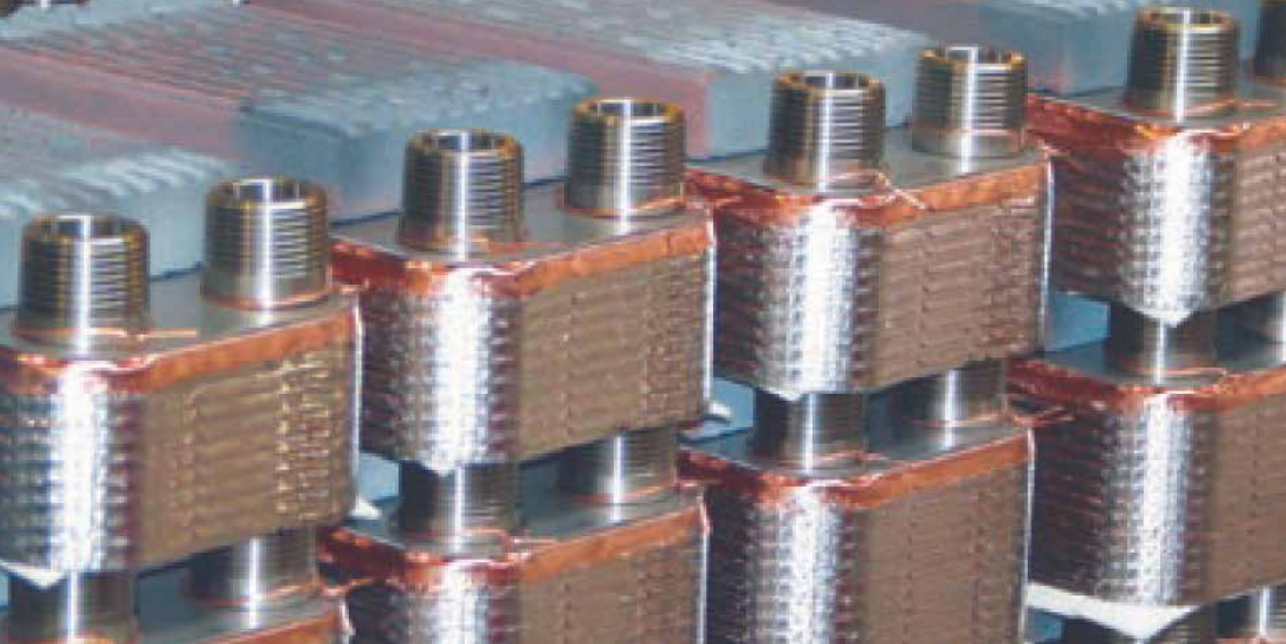
# Chemical Processing Oil and Gas

## Sondex All Welded

The SAW heat exchanger is built into a frame with its welded plate pack. The perfect solution for heat transmission duties, which cannot be handled in a normal gasketed plate heat exchanger because of a too high design temperature, design pressure, or if there is no suitable gasket material for the media which are to be treated in the heat exchanger.

The applications for the SAW heat exchanger are the same as for the SPS heat exchanger. The only difference is that the SAW exchanger is designed to work with closer temperature approaches. The SAW heat exchanger is designed for temperatures from -100 to 400°C and design pressures up to 4,0 MPa.



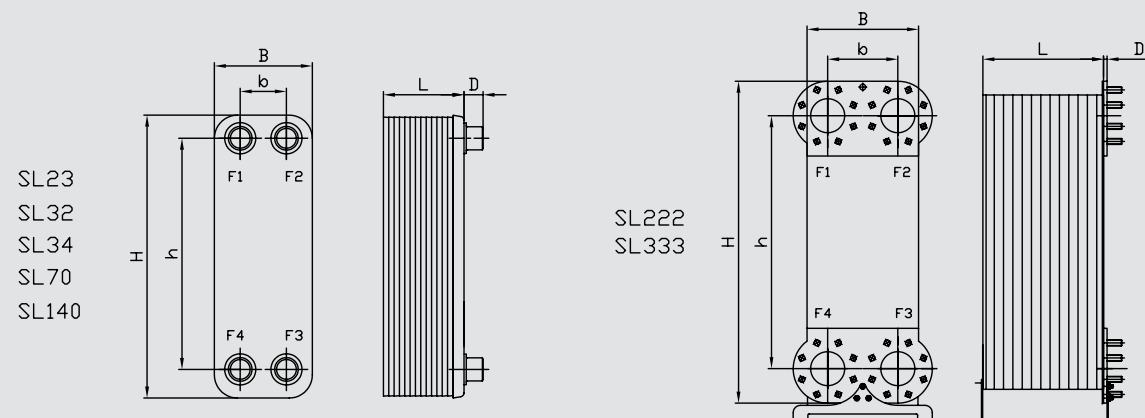


# Brazed Plate Heat Exchanger Refrigeration

## The large range of Sondex Brazed Plate Heat Exchangers

Sondex has developed a range of brazed plate heat exchangers which totally meets the demand for this type of heat exchangers. Our product range includes connection sizes from 1/2" threaded pipe to DN100-PN25 flanges.

In addition to this the plates for several of our model types have various press depths and plate patterns making it possible to optimize the technical solution according to customers specifications.



Type	B mm	H mm	b mm	h mm	D mm	L mm	Connection
SL23	76	312	40	278	27	$9 + (n \times 2,1)$	G3/4
SL32	106	306	50	250	27	$9 + (n \times 2,15)$	G1
SL34	115	292	65	242	27	$9 + (n \times 2,1)$	G1½
SL70	115	496	65	446	27	$9 + (n \times 2,2) \text{ TM+TL} / 7 + (n \times 2,8) \text{ TK}$	G1½
SL140	237	607	150	520	40,6	$9 + (n \times 2,8)$	G2½
SL222	232	740	205	622	8	$30 + (n \times 2,4)$	DN80
SL333	380	1180	239	862	8	$30 + (n \times 2,4)$	DN100

## Sondex Applications:

- Subcoolers
- DX Evaporators
- Condensers
- Flooded Evaporators
- Steam
- Water and Oil



Design approved to CE and PED codes

Design pressure 32+Bar, -180°C up to +200°C





# Power and Water

Sondex Plate Heat Exchangers offer the most cost effective solutions for heat transfer applications in the power industry. Sondex plays a vital role in helping power producers to meet environmental and energy conservation regulations.

## All-in-One Solution

The safety aspect in power plants call for a Sondex plate and shell heat exchanger (SAP), and Sondex all welded heat exchangers (SAW), with the help of which power plants stay operational to deliver electricity and heat reliability

## Applications

- Desalination plant
- Diesel power
- Waste water treatment
- GAS Turbines
- Thermal energy storage
- Turbine inlet air cooling
- Nuclear power stations
- Geothermal power stations
- Hydro electric power
- Central control systems
- Wind power
- Feed water pump
- Transmission and Distribution
- Vacuum pump cooling
- Drainage Cooling
- Emergency diesel cooling
- Air Compressor cooling
- Plant and office heating

## Sondex plate and shell (SPS)

SPS is designed for working pressures up to 4.0 Mpa and temperatures from -100°C to 400°C. Sondex SPS are standard produced with stainless steel plate packs and carbon or stainless steel shells. Other materials can be used upon requisition.

## Benefits

Use of Sondex plate heat exchangers in all areas of energy production results in:

- Reducing investment and installation cost
- High performance and heat recovery efficiency
- Ensures optimal operation
- Simple installation and servicing
- Saves time and space
- Easy to clean and maintain
- Integrated compact design



# Marine

We pride ourselves with technical innovations and a world wide service network that has strengthened our market position. Since more than 90% of global goods traffic is handled by sea, maritime trade has been going full steam ahead. The demand placed on ship owners as far as marine safety and environmental protection is of paramount importance. Sondex adheres to all such requirements which generate efficient and intelligent solutions for any issues relating to plate heat exchangers and fresh water generators used in today's modern vessels.

## Classification

Sondex plate heat exchangers meet with standards specific to Lloyds, DNV, BV, ABS etc.

## Application

- Central cooling of the main or auxiliary engines or turbines
- Lubricating oil cooling
- Preheating of lubrication oil and heavy fuel oil
- Heat exchange to air-condition the cabin and freight spaces
- Preheating of seawater for freshwater production
- Cooling of the cylinder
- Oil coolers and pre-heaters
- Steam dump condensers
- Domestic water heating
- Fuel Oil pre-heater
- Main engine cooler
- Heat recovery
- Tank heater

## Benefit

- Resistance to corrosion
- High thermal efficiency
- Fouling reduced considerably
- Easy to install and clean
- Space occupancy is reduced
- Greater flexibility

## Sondex Freshwater Distillers

FWD utilizes the heat from diesel engine jacket, cooling water to produce pure drinkable water by evaporating sea water under high vacuum. Thus, enabling the feed water to evaporate at temperatures below 48°C. Steam can also be used as an alternative heat source.



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