



# AHTT

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## Plate Heat Exchangers –Double Walled

Plate Heat Exchangers (PHE) have been used since the 1960's by the pharmaceutical, commercial food and beverage industries for a range of heating, pasteurizing and cooling duties, in addition to other clean room processing. The reasons for using PHE's as opposed to the alternative Shell and Tube are hygiene, efficiency, ease of cleaning, space and economy savings. In recent years the increasing demands for absolute security in preventing cross contamination, has resulted in the development of the double walled plate heat exchanger.

The plate heat exchanger plate, consists of two nested corrugated plates with four fully laser welded ports. A peripheral gasket is fitted to complete the sealing and provide the external leakage warning system. All plates are held within a mild or stainless steel frame. All liquid contact surfaces are manufactured in stainless steel that eliminates corrosion due to the immediate environment.

### Size Range

34 to 100mm Connection. With threaded, BSP-T or ANSI150 flanges

### Plate Selection

AISI 316L in 0.6mm thickness is the minimum standard quality for robust performance.



### Performance:

Backed by a large European engineering based manufacturer, with a wide plate range. Extensive R&D is continuing to ensure that an ever larger range of units is made available to meet customer requirements exactly.

Thermal Calculations are undertaken using advanced industry standard parameters. Extensive contacts and reference sites in countries such as Europe, Asia, Americas for over 30 years, in the most exacting industries is testament to the long term quality and performance of these world class Plate Heat Exchanges.

**AHTT Plate Heat Exchangers are Work Cover Approved and manufactured in an ISO 9001 quality approved manufacturing facility, to meet all international heat exchange standards.**

**ISO9001 Quality Certified Manufacture**

## Typical Applications

### Heating and Cooling Duties:

The PHE has a low hold up volume, which enables it to be used in situations where temperature control is an exacting requirement.

### Heat Recovery:

If the design of the system calls for a close approach temperature to maximise the use of low cost energy. PHE's are the only heat exchangers that can meet these high requirements.



### Steam for Hot Wash Down Water:

The versatility of the PHE enables the full utilization of available steam, to provide low cost hot water and for general duties.

### Cleaning In Place:

Compact design and high quality heat transfer surfaces ensures that trouble free C.I.P can be performed on any unit. Pre fitting of C.I.P. connections is available for every unit.



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