

## *SHELL & TUBE heat exchangers*



### *General*

The KiwiHesta Shell & Tube heat exchangers are used in virtually all existing installations where heat or cold is exchanged between liquids and / or gases. Due to the high degree of filling of the shell, KiwiHesta tube heat exchangers have a high efficiency. Because of the wide variety of possible applications, there are several types available in order to obtain the most favourable flow pattern as possible.

### *Selection*

The capacity of the heat exchanger is calculated with advanced software programs that have been developed and based on years of experience in the field of heat transfer. For certain industrial applications KiwiHesta is using HTFS software. This allows for almost all conceivable media and / or mixtures a heat exchanger to be calculated in many different versions. Material selection is depending on the media flowing through the exchangers. The KiwiHesta tubular heat exchangers can be fabricated from the following materials:

- Steel
- Stainless steel
- Copper
- CuNi 70/30
- CuNi 90/10
- Muntz metal
- Titanium

### *Design / Design codes*

- PED (Pressure Equipment Directive 97/23/EG)
- TEMA
- AD Merkblätter
- ASME VIII Div. 1
- Stoomwezen

### *Approved by*

- KiwiHesta
- ABS
- ARB
- DNV
- Germanischer Lloyd
- RINA
- TÜV
- ARAB

### *Applications*

KiwiHesta tube heat exchangers are used to exchange heat or cold between liquids and / or gases in heating systems, process industry, district heating, maritime installations and hot water services.

Shell and tube heat exchangers are used in:

- Water heating through low and high pressure steam, warm and hot water or thermal oil.
- Oil fuel heating through low and high pressure steam and thermal oil.
- Water heating through contaminated hot water, boiler water, steam, etc.
- Condensate after-cooling (preheating feed water).
- Thermal oil cooling using seawater (marine application).
- Heating of chemical liquids by low and high pressure steam, warm/ hot water and thermal oil.
- Cooling of chemical fluids by cooling water.
- Cleaning installations (CIP) for the food industry.
- Tank cleaning heaters, coolers and dump intermedium heaters for marine application.

### *Advice or free quote?*

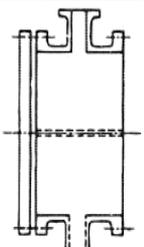
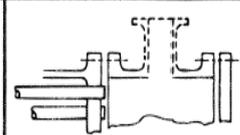
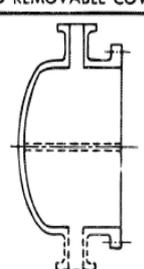
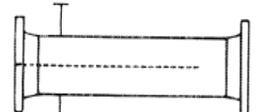
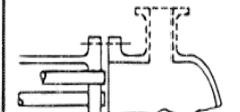
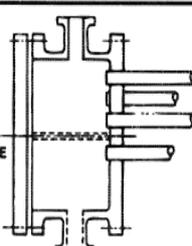
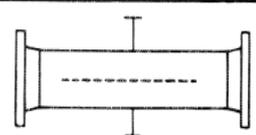
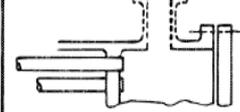
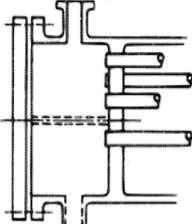
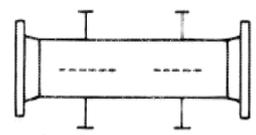
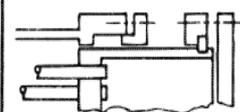
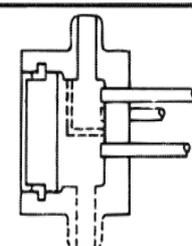
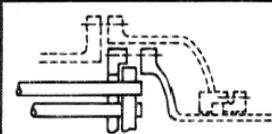
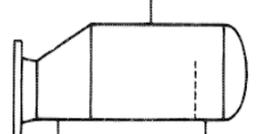
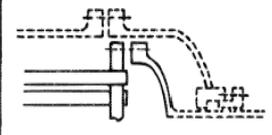
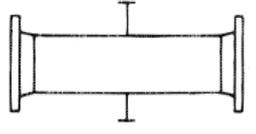
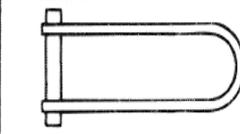
KiwiHesta is your partner in Shell & Tube Heat Exchangers and several other heating products, we think along and give advice where necessary. Can we help or would you like a free quote? Please contact us by phone or mail.

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TEMA codes

FRONT END STATIONARY HEAD TYPES		SHELL TYPES		REAR END HEAD TYPES	
<b>A</b>	 CHANNEL AND REMOVABLE COVER	<b>E</b>	 ONE PASS SHELL	<b>L</b>	 FIXED TUBESHEET LIKE "A" STATIONARY HEAD
<b>B</b>	 BONNET (INTEGRAL COVER)	<b>F</b>	 TWO PASS SHELL WITH LONGITUDINAL BAFFLE	<b>M</b>	 FIXED TUBESHEET LIKE "B" STATIONARY HEAD
<b>C</b>	 REMOVABLE TUBE BUNDLE ONLY CHANNEL INTEGRAL WITH TUBESHEET AND REMOVABLE COVER	<b>G</b>	 SPLIT FLOW	<b>N</b>	 FIXED TUBESHEET LIKE "N" STATIONARY HEAD
<b>N</b>	 CHANNEL INTEGRAL WITH TUBESHEET AND REMOVABLE COVER	<b>H</b>	 DOUBLE SPLIT FLOW	<b>P</b>	 OUTSIDE PACKED FLOATING HEAD
<b>D</b>	 SPECIAL HIGH PRESSURE CLOSURE	<b>J</b>	 DIVIDED FLOW	<b>S</b>	 FLOATING HEAD WITH BACKING DEVICE
		<b>K</b>	 KETTLE TYPE REBOILER	<b>T</b>	 PULL THROUGH FLOATING HEAD
		<b>X</b>	 CROSS FLOW	<b>U</b>	 U-TUBE BUNDLE
				<b>W</b>	 EXTERNALLY SEALED FLOATING TUBESHEET

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