

# DTI SERIES

## INDUSTRIAL DOUBLE TUBE HEAT EXCHANGER



The DTI type heat exchanger is a double tube heat exchanger (tube within a tube). The inner tube is corrugated for increasing the heat transfer. The product flows through the inner tube and the service fluid through the annulus between the inner and outer tube. Because of its geometry, the DTI heat exchanger is a true counter current heat exchanger. An expansion joint (bellow) is fitted in the shell to allow for differential expansion of the inner and outer tube during operation.

### APPLICATIONS:

Fluids containing fibers or other solids.  
Low to high viscosity fluids.

### MATERIALS:

Shell side: AISI 304 stainless steel.  
Tube side: AISI 316L stainless steel.

### CONNECTIONS:

Shell side: DIN flange.  
Tube side: DIN flange

### FINISHING:

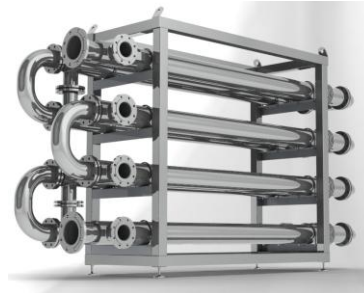
Shell side: Externally mate.  
Tube side: Unpolished.

### DESIGN CONDITIONS:

Shell side: 10 barg / 185 °C.  
Tube side: 10 barg / 185 °C.



An expansion bellow is fitted in the outer shell for absorbing the differential expansion between the shell and the inner tube.



For large duties, multiple units can be interconnected and mounted in a frame.

### RANGE:

Models:	Lengths (m)	Surface area (m <sup>2</sup> )	Shell side Connection	Tube side Connection	Max flow shell (m <sup>3</sup> /hr)	Max flow tubes (m <sup>3</sup> /hr)	Volume shellside (L)	Volume tubeside (L)
DTI 51/25	3,0 – 6,0	0,4	DN40	DN15	13	4	8,2	2,5
DTI 64/38	3,0 – 6,0	0,6	DN40	DN25	17	10	10,3	5,7
DTI 76/51	3,0 – 6,0	0,9	DN40	DN40	18	18	14,1	11,0
DTI 104/64	3,0 – 6,0	1,1	DN65	DN50	43	29	29,7	16,9
DTI 104/76	3,0 – 6,0	1,3	DN65	DN65	33	41	21,5	24,8
DTI 129/104	3,0 – 6,0	1,8	DN80	DN80	37	77	26,0	46,4
DTI 169/129	3,0 – 6,0	2,4	DN80	DN100	55	120	45,4	73,6

The surface area and volumes shown are for 6,0 meter lengths models