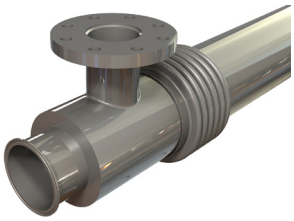
HYGIENIC DOUBLE TUBE HEAT EXCHANGERS

HRS DTA SERIES



The HRS DTA Series is a complete stainless steel double tube heat exchanger designed for hygienic applications. The product flows through the inner tubes and the service fluid flows through the surrounding shell. As a result of its geometry, the DTA Series has a continuous free-pass cross section allowing large particles to be processed and reduces the risk of product blockages.

Using our corrugation technology, both heat transfer and efficiency are increased over standard smooth and dimple tube heat exchangers. In addition, potential fouling is minimised.

TECHNICAL DATA

APPLICATIONS

Fluids Containing Fibres or other Particles
Low-High Viscosity Fluids

STANDARD MATERIALS OF CONSTRUCTION

Service Side: AISI 304 Stainless Steel
Product Side: AISI 316L Stainless Steel
Other material options available

STANDARD CONNECTIONS

Service Side: Flange
Product Side: Clamp
All flange & clamp types available

SURFACE FINISH

External: Polished
Internal: <0.8µ
Other surface finishes available

STANDARD DESIGN CONDITIONS

Service Side: 10 bar/185°C
Product Side: 10 bar/185°C

FEATURES

- Corrugated tubes for increased heat transfer
- Bellows are fitted to absorb differential expansion between shell and tube
- Multiple units can be interconnected and have the option of frame mounting, insulation and cladding in stainless steel

RANGE

MODELS	LENGTHS (m)	SURFACE AREA (m^2)	SERVICE SIDE CONNECTION	PRODUCT SIDE CONNECTION	MAX FLOW SERVICE (m^3/hr)	MAX FLOW PRODUCT (m^3/hr)	SERVICE SIDE VOLUME (l)	PRODUCT SIDE VOLUME (l)
DTA 51/25	3 - 6	0.4	DN40	1”	13	4	8.2	2.5
DTA 64/38	3 - 6	0.6	DN40	1.5”	17	10	10.3	5.7
DTA 76/51	3 - 6	0.9	DN40	2”	18	18	14.1	11
DTA 104/64	3 - 6	1.1	DN65	2.5”	43	29	29.7	16.9
DTA 104/76	3 - 6	1.3	DN65	3”	33	41	21.5	24.8
DTA 129/104	3 - 6	1.8	DN80	4”	37	77	26	46.4

The surface area and volumes shown are for 6m length models.

DESIGN CODE AND COMPLIANCE

PD 5500, PED 2014/68/EU, ASME | FDA, 3A, TR CU 032, DOSH Compliant

HRS HEAT EXCHANGERS hrs-heatexchangers.com **Australian Office** +61 3 9489 1866 info@anz.hrs-he.com