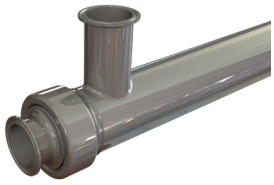
HYGIENIC DOUBLE TUBE HEAT EXCHANGERS

HRS DTAR SERIES



The HRS DTAR 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 DTAR Series has a continuous free-pass cross section allowing large particles to be processed and reduces the risk of product blockages.

The removable inner tube allows for effective cleaning of both shell and tube, making it ideal for product to product applications. Using our corrugation technology, heat transfer and efficiency are increased over standard smooth 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
- The removable inner tube allows for effective cleaning of both shell and tube, making it ideal for product to product applications.

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)
DTAR 51/25	3 - 6	0.4	DN40	1"	13	4	8.2	2.5
DTAR 64/38	3 - 6	0.6	DN40	1.5"	17	10	10.3	5.7
DTAR 76/51	3 - 6	0.9	DN40	2"	18	18	14.1	11
DTAR 104/64	3 - 6	1.1	DN65	2.5"	43	29	29.7	16.9
DTAR 104/76	3 - 6	1.3	DN65	3"	33	41	21.5	24.8
DTAR 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 **Malaysian Office** +603 8081 1898 info@my.hrs-he.com