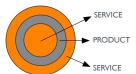


ANNULAR SPACE HEAT EXCHANGERS

HRS AS 3 SERIES





The HRS AS 3 Series is a fully stainless steel, triple tube heat exchanger designed for applications with viscous products. The product flows through the annular space and the service fluid flows through the inner and outer tubes to ensure even heating or cooling.

The removable inner tube allows for easy inspection of the annular space. Using HRS' corrugated tube technology, both heat transfer and efficiency are increased over standard smooth tube heat exchangers. In addition, potential fouling is minimised.



TECHNICAL DATA

APPLICATIONS

Higher Viscosity Products
Fluids Containing Fibres or Small Particulates

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

RANGE

SURFACE FINISH

STANDARD DESIGN CONDITIONS

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

FEATURES

- Corrugated tubes for increased heat transfer for turbulent flow applications
- Bellows are fitted as standard to absorb differential expansion between shell and annular space
- Multiple units can be interconnected and have the option of frame mounting, insulation and cladding in stainless steel
- Smooth tube option available for laminar flow applications

	MODELS	LENGTHS (m)	SURFACE AREA (m²)	SERVICE SIDE CONNECTION	PRODUCT SIDE CONNECTION	MAX FLOW SERVICE (m³/hr)	MAX FLOW PRODUCT (m³/hr)	SERVICE SIDE VOLUME (I)	PRODUCT SIDE VOLUME (I)
	AS 76/51/25	3 - 6	1.3	DN40	1"	20	4	15.6	7.8
	AS 104/76/51	3 - 6	2.3	DN65	2"	45	16	30.5	13.1
	AS 129/104/76	3 - 6	4.3	DN80	2.5"	70	25	47.9	19.8
	AS 154/129/104*	3 - 6	6.8	DN80	3"	95	34	74.7	22.7

The surface area and volumes shown are for 6m length models. *AS 154/129/104: up to 5 bar pressure on the service side.

DESIGN CODE AND COMPLIANCE

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

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