

HRS AS SERIES

ANNULAR SPACE HEAT EXCHANGER



The HRS AS Series is a fully stainless steel, triple tube heat exchanger 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.

APPLICATIONS

Higher Viscosity Products
Fluids Containing Fibres or Small Particulates

MATERIALS OF CONSTRUCTION

Service Side: AISI 304 Stainless Steel
Product Side: AISI 316L Stainless Steel

STANDARD CONNECTIONS

Service Side: Flange
Product Side: Clamp

SURFACE FINISH

External: Satin or Polished
Product Side: Roughness < 0,8 µ

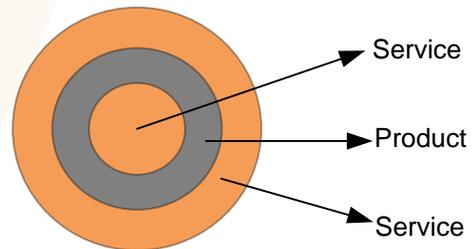
STANDARD DESIGN CONDITIONS

Service Side: 10 barg/150° C
Product Side: 10 barg/150° C

RANGE

Models:	Lengths (m)	Surface Area (m ²)	Shell Side Connection	Tube Side Connection	Max Flow Shell (m ³ /hr)	Max Flow Tubes (m ³ /hr)	Volume Shell Side (L)	Volume Tube Side (L)
AS 76/51/25	3.0 - 6.0	1.4	DN40	1"	20	4	15.6	7.8
AS 104/76/51	3.0 - 6.0	2.4	DN65	2"	45	16	30.5	13.1
AS 129/104/76	3.0 - 6.0	3.4	DN80	2.5"	70	25	47.9	19.8
AS 154/129/104	3.0 - 6.0	4.4	DN80	3"	95	34	74.7	22.7

The surface area and volumes shown are for 6.0 meter length models.



FEATURES

Corrugated tubes for increased heat transfer

A bellow is 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

