

HYGIENIC MULTITUBE HEAT EXCHANGERS WITH REMOVABLE TUBES

HRS MR SERIES



The HRS MR Series is a complete stainless steel shell and tube heat exchanger designed for hygienic applications. The product flows through both the inner tube and the surrounding shell for regeneration duties. The removable tubes allow hygienic processing on the shell side.

The HRS MR Series is an ideal heat exchanger for direct product-to-product heat recovery. Using HRS corrugation technology, heat transfer and efficiency are increased over standard smooth tube heat exchangers. In addition, effects of fouling are minimised.



TECHNICAL DATA

APPLICATIONS

Low-Medium Viscosity Fluids
Food Industry Applications

SURFACE FINISH

External: Polished
Internal: <math><0.8\mu</math>
Other surface finishes available

STANDARD MATERIALS OF CONSTRUCTION

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

STANDARD DESIGN CONDITIONS

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

STANDARD CONNECTIONS

Service Side: Clamp
Product Side: Clamp
All clamp types available

FEATURES

- Corrugated tubes for increased heat transfer
- 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)
MR 7 76/18	3 - 6	2.3	2"	2.5"	16	13	14.4	8.3
MR 12 104/18	3 - 6	4	3"	4"	39	25	28.5	14.3
MR 19 129/18	3 - 6	6.3	3"	5"	39	39	44	22.6
MR 31 154/18	3 - 6	10.4	4"	6"	76	62	58.2	36.8

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

DESIGN CODE AND COMPLIANCE

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