

HRS MR SERIES

HYGIENIC MULTI-TUBE HEAT EXCHANGER (With Removable Tube Bundle)



The HRS MR Series is a complete stainless steel shell and tube design for hygienic applications. The product flows through the interior tubes and the media fluid flows through the surrounding shell. The removable tubes allow hygienic processing on the shell side. The 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.

APPLICATIONS

Low-Medium Viscosity Fluids
Food Industry

MATERIALS OF CONSTRUCTION

Shell Side: AISI 316L Stainless Steel
Tube Side: AISI 316L Stainless Steel

STANDARD CONNECTIONS

Shell Side: Clamp
Tube Side: Clamp

SURFACE FINISH

External: Satin or Polished
Tube side: Roughness < 0.8 μ

STANDARD DESIGN CONDITIONS

Shell Side: 10 barg/150° C
Tube Side: 10 barg/150° C

FEATURES

Corrugated tubes for increased heat transfer

Bellow fitted to absorb differential expansion between shell and inner tube

Multiple units can be interconnected and mounted in a frame



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 shellside (L)	Volume tubeside (L)
MR 7 76/18	3.0 – 6.0	2.3	2"	2"	16	13	14.4	8.3
MR 12 104/18	3.0 – 6.0	4.0	3"	2"	39	25	28.5	14.3
MR 19 129/18	3.0 – 6.0	6.3	3"	3"	39	39	44.0	22.6
MR 31 154/18	3.0 – 6.0	10.4	4"	4"	76	62	58.2	36.8

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