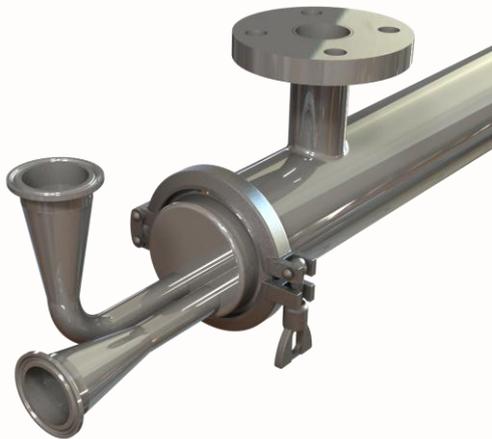


# HRS MP SERIES

MULTI-TUBE HEAT EXCHANGER WITH MULTIPLE PASSES



The HRS MP Series is a complete stainless steel multi tube design ideal for hygienic and industrial applications. Using multiple passes on the tube side offers greater flexibility for optimising fluid velocity, pressure drop and heat transfer. The unique design creates longer thermal length within the same module, avoiding designs with multiple modules and interconnecting bends. Using HRS corrugation technology, both heat transfer and efficiency are increased over standard smooth tube heat exchangers. In addition potential fouling is minimised.

## APPLICATIONS

Low-Medium Viscosity Fluids  
Food Industry Applications

## MATERIALS OF CONSTRUCTION

Shell Side: AISI 304 Stainless Steel  
Tube Side: AISI 316L Stainless Steel

## STANDARD CONNECTIONS

Shell Side: Flange  
Tube Side: Clamp

## SURFACE FINISH

External: Satin or Polished  
Tube Side: Roughness < 0,8  $\mu$

## STANDARD DESIGN CONDITIONS

Shell Side: 10 barg/185° C  
Tube Side: 10 barg/185° C

## RANGE

Models:	Lengths (m) (*)	Surface Area (m <sup>2</sup> )	Shell Side Connection	Tube Side Connection	Volume Shell Side (L)	Volume Tube Side (L)
MP 6/X 76/18	0.7 – 6.0	2.0	DN40	1.5"	16.6	7.2
MP 12/X 104/18	0.7 – 6.0	4.1	DN65	1.5"	30.0	14.5
MP 18/X 129/18	0.7 – 6.0	6.1	DN80	2"	47.8	21.7
MP 36/X 168/18	0.7 – 6.0	12.2	DN80	3"	70.8	43.4

(\*) Possible tube lengths in mtrs: 0.7 / 1.0 / 1.5 / 2.0 / 3.0 / 6.0  
The surface area and volumes shown are for 6.0 meter length models. Nozzle volumes are included.

## FEATURES

Multiple passes on tube side optimise fluid velocity, pressure drop and heat transfer

Corrugated tube for increased heat transfer

Bellow fitted to absorb differential expansion between shell and inner tube

Multiple units can be interconnected and have the option of frame mounting, insulation and cladding in stainless steel

## PASSES

Can be configured to include 2 / 3 / 6 passes.