

Heat Exchanger (Melter) – TM

- **Application**

The **TM tubular heat exchanger** is used both for fluid cooling and heating applications and for the continuous decrystallisation or recrystallisation of viscous products that precipitate in glass. It can be applied in the food, cosmetics, pharmaceutical or chemical industries.

The equipment is a tube-in-tube cooler/heater with a certain number of tubular units of six (6) metres each.

In the honey processing industry, it is used as a pre-treatment of the raw product (decrystallisation) prior to the pre-filtration stage that leads to the pasteurisation of the honey.

It has the possibility of automating the process including instrumentation and control valves and regulation of the factory services.

- **Design and features**

It has a sanitary, fully drainable design and can be used in various configurations and diameters depending on fluid specifications and performance requirements.

Its design allows for CIP cleaning of the equipment. It also allows the removal of the tubular units for inspection or repair,

- **Technical specifications**

Materials:

Product wetted parts	Stainless steel AISI 316L ¹
Other steel parts	Stainless steel AISI 304L ²
Product wetted gaskets	EPDM

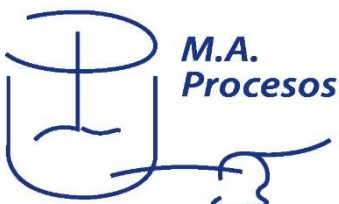
Surface finish:

Product wetted parts:

2B, with clean and polished welds $Ra \leq 0.8 \mu m$.

Other Steel parts:

Matt.



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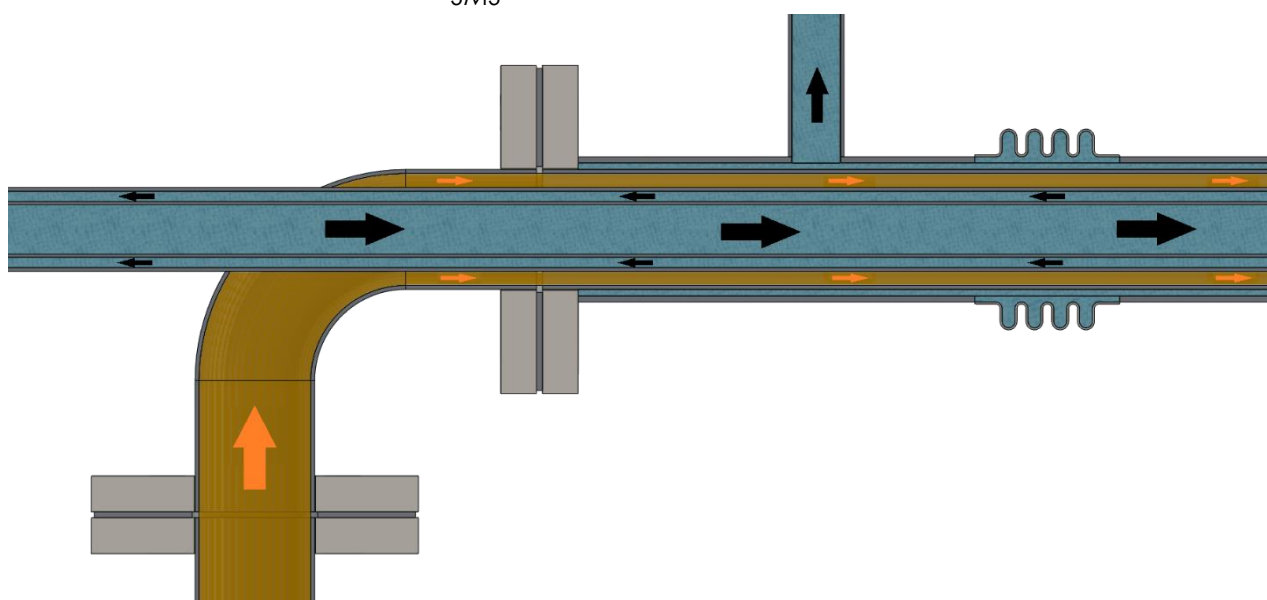
Operating limits:

Product capacity	170 L (for a tri-tube configuration 6x6000 of 4" / 3" / 2")
Utility fluid capacity	235 L (for a tri-tube configuration 6x6000 de 4" / 3" / 2")
Maximum working pressure	10/16 bar
Working temperature	<100 °C
Maximum flow	Up to 4.000 kg/h (for honey with a density of 1.400 kg/m ³ and a tri-tube configuration 6x6000 de 4" / 3" / 2")

Connections:

DIN 11851

SMS



Options

Different types of assemblies are offered:

Options	Gaskets
E	EPDM
N	NBR

Options	Fittings
DIN	DIN 11851
SMS	SMS

Options	Other mounting options
INS	Instrumentation (Pt100 temperature sensor), service shut-off valves and control valve
CTR	Control panel for temperatura control loop
AIS	Unit enclosure system for thermal protection of operators and insulation of the equipment



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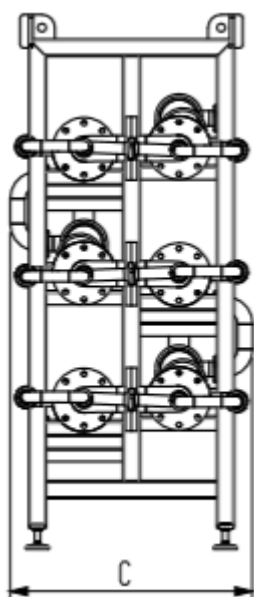
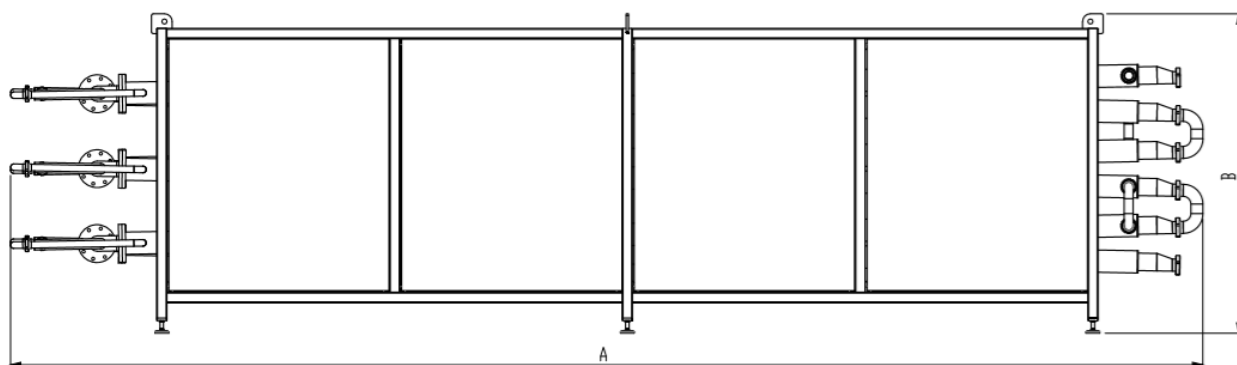
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- **Mounting options**

It is mounted on a frame of square structural sections and then covered with insulation and sheet metal to prevent thermal contact.



- **Dimensions**



	DIN 11851			Weight kg
	A (mm)	B (mm)	C (mm)	
FTM	6920	1853	839	1325

Indicative information. We reserve the right to modify any material or feature without notice. Non-contractual pictures.

