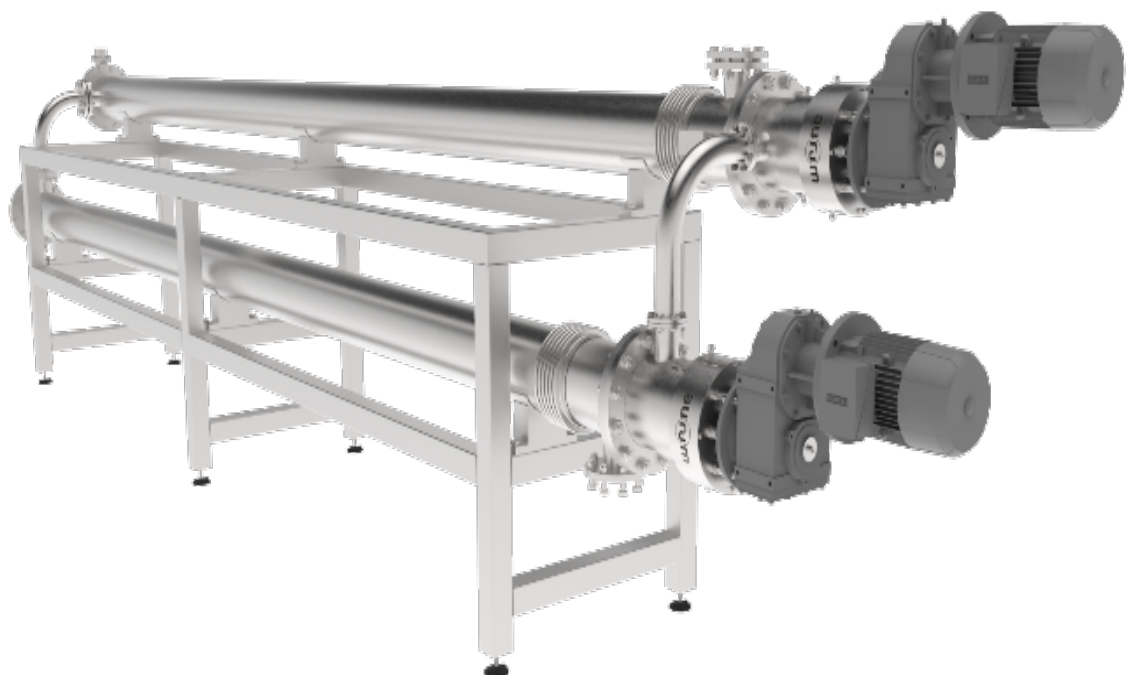


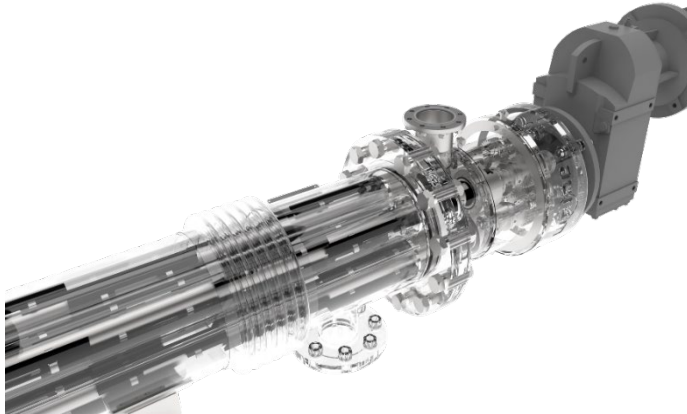
# Heat Exchanger

RM series



# RM SERIES

## Heat exchanger



Aurum Process provides the customer with heat transfer equipment either as individual components or as complete modules forming part of process lines. These modules are pre-engineered so that they can be commissioned as quickly and easily as possible.

Our equipment is designed to provide consumers with the assurance that their food or products retain their original flavour and pleasant texture.

The transformations that our customers carry out in their processes are not the same, which is why at Aurum Process we have a range of heat exchangers for each of the processes.

Within our range of heat exchangers we have the RM series. This is a scraped surface rotary heat exchanger specially designed to treat high viscosity products in Heating/Cooling/Freezing applications, although they are also used for heat sensitive products, crystallisation, products carrying particles or sticky fluids..

APT RM heat exchangers consist of a tube bundle welded to a heating jacket. This type of heat exchanger can be used in the food industry or in industrial applications..

The most important advantage of RM APTs is that they have the largest exchange area per exchanger currently available on the market..

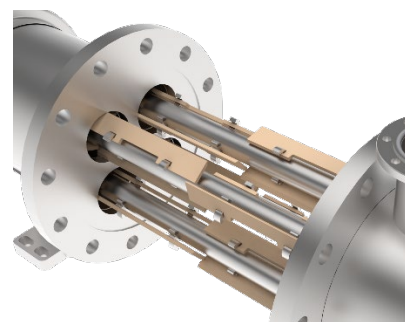
The product flows through the inner tubes in which there is a rotating bar equipped with scraper elements that adapt perfectly to the surface and over time after progressive wear and tear thanks to their adaptive design, which gives them a long service life. The operating fluid flows through the spaces between the inner tubes and the heating jacket covering them.

The mission of the scraper blocks is threefold:

- Scrape the inner surface of the tube to prevent the formation of incrustations, thus increasing the operating time.
- Agitate and mix preventing fouling and promoting turbulence formation, thus improving efficiency.
- To reduce the pressure loss due to the pushing movement exerted on the product, thus reducing the total consumption provided by the transfer equipment..

### Advantages

- Reduction of process times.
- Improved quality of the final product.
- Homogeneous heat treatment.
- Very low fouling levels.
- Low pressure drop
- Reduced space requirements.
- Increased production cycles.
- Larger exchange area per heat exchanger.
- Can be used in aseptic and hygienic applications.



## Applications



Ready meals, sauces, creams, porridges, HUMMUS, Baby food



Industrial Processing of Vegetables.



Industrial fruit processing.



Dairy products. Frothed products.



Cosmetics, body creams, hair care, toothpaste..

## TECHNICAL INFORMATION

### Models

Model	Length (m)	Surface Area (m <sup>2</sup> )	Shirt volume (L)	Tube volume (L)
RM 1/1 154/104	3.0	0.98	27	17.5
RM 1/1 154/104	6.0	1.96	55	35
RM 4/1 219/76	3.0	2.85	54	40
RM 4/1 219/76	6.0	5.70	108	80

- We make designs adapted to the needs of the process.
- RM series heat exchangers are available with 1, 2 and 4 passages.
- Jacket and inner tube diameters can be adapted to almost any diameter and standard.
- Process and service connections can be in any connection type, standard and size.
- Models: Vertical, Horizontal. Multi-Tubular, Pipe in Pipe..

### Process Parameters

#### DESIGN CONDITIONS:

- Service side: up to 185°C / 10 bar.g
- Product side: up to 185°C / 21 bar.g

#### COATINGS

- External: Polished
- Product side: R<0.8 microns

#### CONNECTIONS:

- Service Side: Flange / Clamp
- Product Side : Clamp

#### MATERIALS:

- Service Side: AISI 304
- Product Side: AISI 316L

