er es

Scraped Surface Heat Exchangers at small-scale

OMVE HT326 Pilot Plant is a HTST/UHT System designed to process products with high viscosities and/or large particles in continuous flow. The HT326 provides R & D Departments a flexible and reliable unit to mimic the operation of Production Plants, facilitating scale-up process, formulation, product optimization, shelf life studies, organoleptic analysis, among others.

Applications





Confectionery



Fruit and vegetable juices & purees



Dairy products



Desserts & puddings



Baby food



Sauces and soups







Scraped Surface Heat Exchangers

The HT326 system is standard supplied with Scraped Surface Heat Exchangers (SSHE) for heating and cooling, with a very low dead volume, dramatically reducing the waste of ingredients per test.

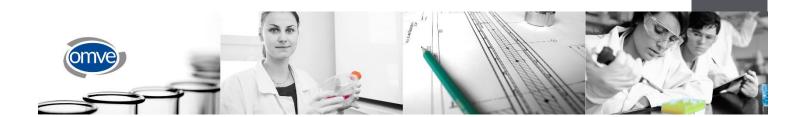
Modular build

The Heat Exchanger is built for Pasteurization (HTST) and/or Sterilization (UHT) temperatures, simulating a required temperature profile according to specifications.

Holding tubes

With a flexible arrangement of holding tubes, experimentations to maintain the heating temperature at specific time increases the possibilities.





Standard Modules

- Balance tank or connection for external mixing tank
- Different kind of holding times
- Mixer in balance (feed) tank
- Flow meter / control
 - Electromagnetic
 - Mass
- Additional SHHE Module
- Aseptic upgrade
- Data logging facilities
- Remote connection (Internet)
- Software in other languages

Unique features

- Industrial A-brand components
- Modular build
- Fully automatic CIP & SIP
- Continuous process
- Low product hold-up
- Wide range of different SSHE
- High level of automation

Specifications

Draduat and convince unit	UT220 20	UT220 FO	UT220 400	HT320 200
Product code service unit	HT320-20	HT320-50	HT320-100	HT320-200
Adjustable flow rate	10-50L/h	20-80L/h	60-150L/h	100-300L/h
Pressure Product pump	10 bar /20bar*	10bar /20 bar*	10bar /20 ba	r* 20 bar
CIP pump flow rate	400L/h	600L/h	600L/h	600L/h
Cleaning temp. @ 30 min.	70°C / 85°C*			
Sterilization temp. @ 30 min.	140°C			
Max viscosity SSH	>2500cPs	>2500cPs	>2500cPs	>2500cPs
Max particles SSHE	7mm	7mm	15mm	15mm
Heating hot water (indirect steam)	Yes	Yes	Yes	Yes
Heating direct with steam	Yes	Yes	Yes	Yes
Overall dimensions				
LxWxH	175 x100x180cm	200x100x180cm	250x100x180c	m 250x120x180cm
Materials				
product side	SS316			
Required utilities				
Electrical supply	370-400Vac /3ph+N+E /50H or 200-240Vac /3ph+E /60Hz			
Compressed air	6 bar(g)			
Water supply	2,5bar(g) Chilled water		r supply	3,5bar(g)
High pressure steam	6-8bar(g) Low pressur		e steam	3,5bar(g)
otional				-

Integration with other equipment

Compatible with other OMVE modules, provides a unique possibility to simulate an industrial.

- HTST/UHT System with 2 heat treatment methods -THE Tubular HE for low viscous products
- -SSHE Scraped Surface HE for high viscous products with 15mm particle size.
- Multiple holding tubes
- Deaerator
- Homogenizer upstream/downstream
- Filler







