

# Pilot Pasteurizer/Sterilizer



## HT326 HTST/UHT Pilot Plant

Scraped surface heat exchangers at a small scale

The 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 full-sized production plants, facilitating the scale-up process, formulation, product optimization, shelf-life studies, organoleptic analysis and more.

## Features & Benefits

- Industrial A-brand components
- Customizable, modular build
- Built-in CIP & SIP
- High level of automation
- Low product hold-up

## Applications

- Dairy-based viscous products
- Desserts, fillings and puddings
- Fruit concentrates & vegetable purees
- Soups & sauces
- Functional and Medical Food



## Working Principle

The HT326 Scraped surface heat exchanger (SSHE) System can treat your product with different temperatures to simulate your industrial process. The compact process enables you to execute a trial with minimal volume. This reduces the required amount of ingredients, preparation time, start-up and processing time.

The HT326 system is supplied standard with scraped surface heat exchangers (SSHE) for heating and cooling, with a very low dead volume, dramatically reducing the waste of ingredients during testing.

The HT326 heat exchanger is built for pasteurization (HTST) and/or sterilization (UHT) temperatures, simulating a required temperature profile according to specifications.

With a flexible arrangement of holding tubes, the HT326 allows you to experiment with holding the heating temperature at various time intervals, giving you more potential ways to customize your production process.



## Optional Accessories

- Connection for external mixing tank
- Flow meter/control (Electromagnetic & Mass)
- Additional holding tubes
- Internet connectivity for troubleshooting
- Aseptic SSHE
- Data logger
- Software in other languages

## Specifications

Product Code	HT326-20	HT326-50	HT326-100	HT326-200
Adjustable flow rate	10-50L/hr	20-80L/hr	60-150L/hr	100-300L/hr
Pressure product pump	20bar* [145psi / 290psi]			
CIP pump flow rate	1200L/hr			
Cleaning temp. @ 30 min.	70C°/ 85°C* [158°F/ 185°F]			
Sterilization temp. @ 30 min.	140°C [284°F]			
Max. temp. boiler (medium size)	160°C [320°F]			
Max. viscosity - SSHE	>2500cPs	>2500cPs	>2500cPs	>2500cPs
Max. particles - SSHE	4mm [0,16"]	4-7mm [0,16-0,27"]	7mm [0,27"]	7mm [0,27"]
Heating hot water (electrical)	Yes	Yes	N/A	N/A
Heating hot water (steam)	Yes	Yes	Yes	Yes
Heating direct (steam)	Yes	Yes	Yes	Yes
<b>Weights &amp; Dimensions</b>				
L x W x H	190 x 120 x 210cm [75 x 47,3 x 82,7"]	220 x 120 x 210cm [86,6 x 47,3 x 82,7"]	250 x 120 x 220cm [98,5 x 47,3 x 86,6"]	250 x 120 x 220cm [98 x 47,3 x 86,6"]
<b>Materials</b>				
Product side	SS316			
<b>Required utilities</b>				
Electrical supply	370-400Vac/ 3ph+N+E/ 50Hz/ or 200-240Vac/ 3ph+E/ 60Hz			
Compressed air	6bar(g) [87psi]			
Water supply	2,5bar(g) [36,5psi]			
Chilled water supply	3,5bar(g) [51psi]			
High pressure steam	6-8bar(g) [87-116psi]			
Low pressure steam	3,5bar(g) [51psi]			

\*optional



50L/hr HTST/UHT + Homogenizing + Filling

OMVE Netherlands B.V.  
De Meern, The Netherlands  
Tel +31 30 241 00 70  
sales@omve.com

OMVE Americas Inc.  
Milton, Canada  
Tel +1 416 986 8442  
omve.com

Lab & Pilot Equipment 