

Pasteurizer/Sterilizer

HT226 SSHE System

Scraped surface heat exchangers at a small scale

The OMVE HT226 is a HTST/UHT system designed to process products with high viscosities and/or large particles in continuous flow. The HT226 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.

The OMVE SSHE is unique in their hygienic execution. This assures a good cleaning during CIP and minimize contamination during processing. The barrels can also be disassembled for manual cleaning. With the special bearing and high-pressure seals, the SSHE can handle a pressure up to 10 bar. This makes the system especially suitable for very high viscous products and simulates industrial processes where high pressures are preferred.



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 & puddings
- Fruit concentrates & vegetable purées
- Meal replacements
- Functional & Medical Food

Working Principle

The HT226 Scraped surface heat exchanger (SSHE) System can treat your product with different temperatures to simulate an 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. Different heat treatment methods are available.

The HT226 system is supplied standard with scraped surface heat exchangers (SSHE) for heating and cooling, with a very low dead volume.



Optional Accessories

- Connection for external mixing tank
- Flow meter/control (Electromagnetic & Mass)
- Additional holding tubes
- Internet connectivity for troubleshooting
- Mixer in feed tank to prevent settlement mixing tank
- Custom-made SSHE
- Data logger (standard)
- Software in other languages

Specifications

Product Code	HT226-20
Adjustable flow rate	10-50L/hr
Pressure product pump	10bar/20bar* [145psi / 290psi]
CIP pump flow rate	400-800L/hr
Cleaning temp. @ 30 min.	70°/ 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
Max. particles - SSHE	7mm [0,27"]
Heating hot water (electrical)	Yes
Weights & Dimensions	
L x W x H	190 x 120 x 210cm [75 x 47,3 x 82,7"]
Materials	
Product side	SS316
Required utilities	
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]
Drains	Required

*optional