

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 system contains standard a feed hopper, a product pump, a CIP pump, scraped surface heat exchangers (pre- and main heat with independent control), 2 cooling sections and a touchscreen.

The product is pumped from the product feed hopper or external connection to the scraped surface heat exchangers. In the heat exchangers the product is heated to the set temperature. After the heating sections, a holding time can be applied. The product is sequentially cooled by the cooling sections. A backpressure valve keeps the system pressurized to prevent boiling during processing.

Three stages can be distinguished during operation: sterilization (SIP), production, and cleaning (CIP).



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
Weights & Dimensions				
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"]
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]			
Chilled water supply	3,5bar(g) [51psi]			
High pressure steam	6-8bar(g) [87-116psi]			
Low pressure steam	3,5bar(g) [51psi]			

*optional



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