

OMVE HT320 HTST/UHT pilot processing equipment give Research & Development, Quality Assurance and Pilot departments access to a unique formula of continuous flow heat treatment processes for a very broad range of products. The pilot systems can be carried out with different heat exchangers and have a very low dead volume. The entire system is operated by a central PLC for easy operation. HTST/UHT systems can be designed at different capacities from 10 l/h up to 500 l/h. Higher capacities on request.

Unlike other systems, the OMVE HT320 HTST/UHT pilot systems are based on modules that can be configured to customer specifications. The configuration of the HTST/UHT system depends on product and process specifications. All processes can be performed aseptically.

## Unique features

Exchanger

- Industrial A-brand components
- Modular build
- Supports different kinds of heat exchangers
- Fully automatic CIP and SIP facility
- Inline operation with other equipment
- Low product hold-up
- Broad range of accessories to suite your requirements
- High level of automation

### Applications

- Dairy products
- Beverages
- Baby food
- Tea & coffee
- Desserts and puddings
- Fruit and vegetable juices & purees

Heat Exchanger

- Health and nutritional product
- Pharmaceuticals
- Sauces and soups

#### Standard accessories

- Different kind of heat exchangers
- Different kind of feed tanks
- Different kind of holding cells
- Mixer in feed tank
- Flow meter / control
- Additional heating circuit
- Aseptic upgrade
- Data logging facilities



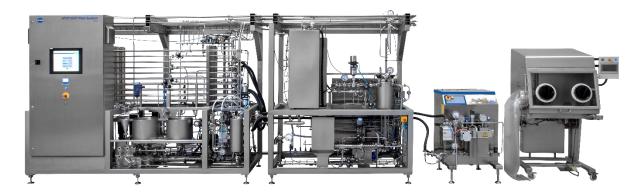
# Specifications

Product code service unit	HT320-20	HT3	320-50	HT320-1	00	HT320-200
Adjustable flow rate	10-50L/h	20-8	-80L/h 60-150L		h	100-300L/h
Pressure Product pump	10 bar /20bar* [145psi / 290psi]					
CIP pump flow rate	400-800L/h					
Cleaning temp. @ 30 min.	70°C / 85°C* [158°F / 185°F]					
Sterilization temp. @ 30 min.	140°C [284°F]					
Max. Temperature boiler (medium side)	160°C [320°F]					
Internal diameter tubes	8mm /10mm	8mr	m /10mm	10mm /16mm		10mm /16mm
	[0,3" /0,4"]	[0,3	" /0,4"]	[0,4" /0,63"]		[0,4" /0,63"]
Max viscosity tubes	2500cPs	250	0cPs	2000cPs		1500cPs
Max viscosity plates	500cPs	500	cPs	200cPs		200cPs
Max viscosity DSI	100cPs	100	cPs	100cPs		100cPs
Max viscosity SSH	>2500cPs	>25	00cPs	>2500cPs		>2500cPs
Max particles plate	1mm [0,04'']	1mr	m [0,04'']	1mm [0,04"]		1mm [0,04"]
Max particles tube	3mm [0,12"]	3mr	m [0,12'']	4mm [0,16"]		4mm [0,16"]
Max particles DSI	NA	NA		NA		NA
Max particles SSHE	7mm [0,27"]	7mr	m [0,27'']	15mm [0,6'']		15mm [0,6'']
Heating hot water (electrical)	Yes	Yes		NA		NA
Heating hot water (steam)	Yes	Yes		Yes		Yes
Heating direct with steam	Yes	Yes		Yes		Yes
Direct Steam Injection (DSI)	Yes	Yes	j	Yes		Yes
Overall dimensions						
L x W x H	175 x100x180cm	200	x100x180cm	250x100x180cm		250x120x180cm
	[70''x40x71'']	[80'	'x40x71'']	[98''x40x71'']		[98x48x71"]
Materials						
product side	SS316					
Required utilities						
Electrical supply	400V /3ph /50Hz or 220V /3ph /60Hz					
Compressed air	6 bar(g) [87psi]					
Water supply	2,5bar(g) [36,5psi]		Chilled water supply		3,5bar(g)[51psi]	
High pressure steam	6-8bar(g) [87-116psi]	[87-116psi] Low pre		ure steam 3,5bar		g)[51psi]

\*optional

## Integration with other equipment

The OMVE HTST/UHT pilot systems are compatible with different processing equipment, providing a unique possibility to simulate an industrial line on laboratory or pilot scale. All equipment is controlled by a central operation system.



1 - Complete integrated process line

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