Inline Pasteurization and Sterilization

The most complete lab HTST/ UHT system

HTST/UHT System

Tubular Heat Exchanger

Plate Heat Exchanger

Direct Steam Injection

Scraped Surface Heat Exchanger

The compact HT220 system enables you to run a trial with less than 3 liters of product. This reduces the required amount of ingredients, preparation time, start-up time and processing time. Moreover, the HT220 allows you to conduct more trials in a day, improving your R&D productivity.

Due to the easy accessibility to the heat exchangers, modifying the process configuration is simple to carry out within a minimum of time. All manual controls are easy to access from the front.

A clear dynamic overview of the process (temperature, flow, pressure) is given on the 10" TFT touch screen with a high resolution. During startup, processing, cleaning and sterilization the operator is guided by the PLC.

Processing Overview 31.8 a 31.8 a 32.8 b 33.8 a Overview Security States Overview Security St

Unique Features

- Very user friendly
- Low in Maintenance costs
- Full Sanitary & Aseptic design
- Easy accessible for maintenance
- Full CIP / SIP
- High Level of automation
- Highest safety level

Standard accessories

- Mixer in feed hopper
- Flow control / meter
- External data logging
- Variable holding tubes

More accessories available.

Applications

- Baby food
- Confectionery
- Coffee & tea
- Desserts and puddings
- Fruit and vegetable juices & purees
- Health and nutritional product
- Dairy products
- Pharmaceuticals
- Sauces and soups
- Additional Heating Boiler
- Temperature control cooling
- Aseptic execution
- Remote assistance

Heat Treatment





ŀ	4	1	

Product code	HT220-20	HT220-50	
Product vessel	5 or 10liter	10liter	
Max. Pressure product pump	10 bar [145psi]	10 bar [145psi]	
Nominal / Process flow rate	20l/hr / 10 – 50l/hr	50l/hr / 30 — 90l/hr	
CIP flow rate product pump	Up to 160l/hr	Up to 160l/hr	
CIP pump (optional)	Up to 600l/hr	Up to 600l/hr	
Max. Temperature boiler (medium side)	160°C [320°F]	160°C [320°F]	
Hot Water (electrical heated)	6kW or 2x6kW	6kw + 8kW	
Tube in tube Heat Exchanger			
Internal diameter	8mm or 10mm [0,3" /0,4"]	8mm or 10mm [0,3" /0,4"]	
Max particle size	3mm [0,12"]	3mm [0,12"]	
Viscosity	2500cPs	2000cPs	
Bolted Plate Heat exchanger			
Max particle size	0,5mm [0,02"]	0,5mm [0,02"]	
Viscosity	500cPs	500cPs	
Scraped surface Heat Exchanger			
Internal diameter Cylinder	50,75mm [2"]	50,75mm [2"]	
Max particle size	Up to 4mm [0,16'']	Up to 4mm [0,16"]	
Variable rotating speed	0-500rpm	0-500rpm	
Dead volume per barrel	<500ml (standard)	<800ml (standard)	
Viscosity	>2500cPs	.2500cPs	
Materials			
Product side	SS316	SS316	
Dimensions			
HT220 Tubes	1074x900x1750mm	1600x900x1750mm	
Required Utilities			
Electrical (heated by 1 electrical boiler)	370-400Vac/3ph+N+E/50Hz/16A or 200-240Vac/3ph+E/60Hz/32A		
Electrical (heated by 2 electrical boiler)	370-400Vac/3ph+N+E/50Hz/32A or 200-240Vac/3ph+E/60Hz/32A		
Water	2,5bar(g) 0°C - 20°C [36psi 32°F - 68°F]		
Steam low pressure (optional)	3bar(g) [43,5psi] for sterilization		
Steam for DSI (optional)	8bar(g) [116psi]		
Compressed air	6 bar(g) [87psi]		
	1		



The HT220 can be seamlessly integrated with other OMVE equipment.

Why OMVE

- ✓ Since 1993, we have specialized in supplying manufacturing R&D and pilot-plant equipment.
- OMVE is a preferred supplier to leading multinationals worldwide.
- ✓ OMVE systems are designed and manufactured according to the highest industry standards.
- ✓ OMVE systems come with a two-year warranty.
- ✓ OMVE systems carry CE certification.
- ✓ OMVE offers the most comprehensive service available on the market.

