



Lab & Pilot Equipment

# Commissioning Training HT220



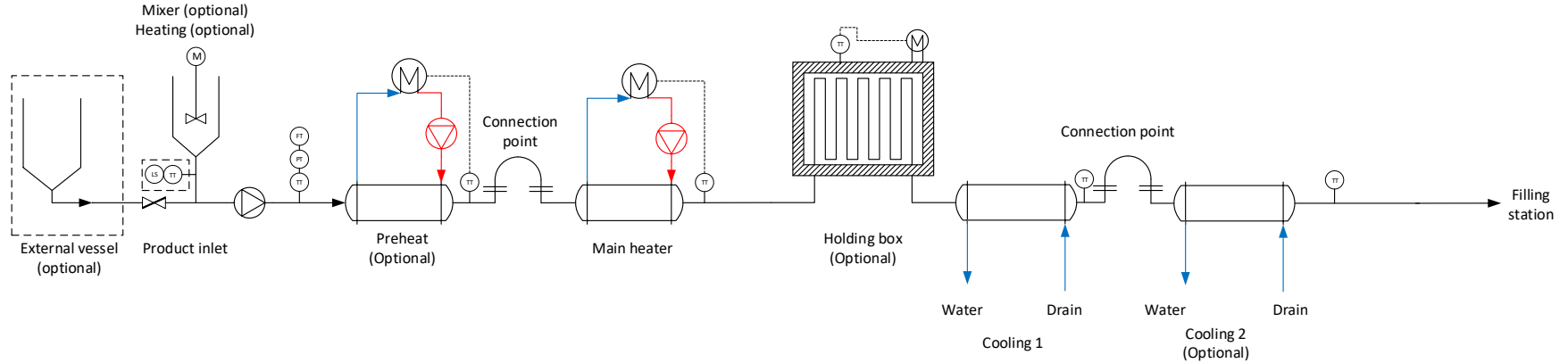
- Agenda

## 2. HT220 in flight



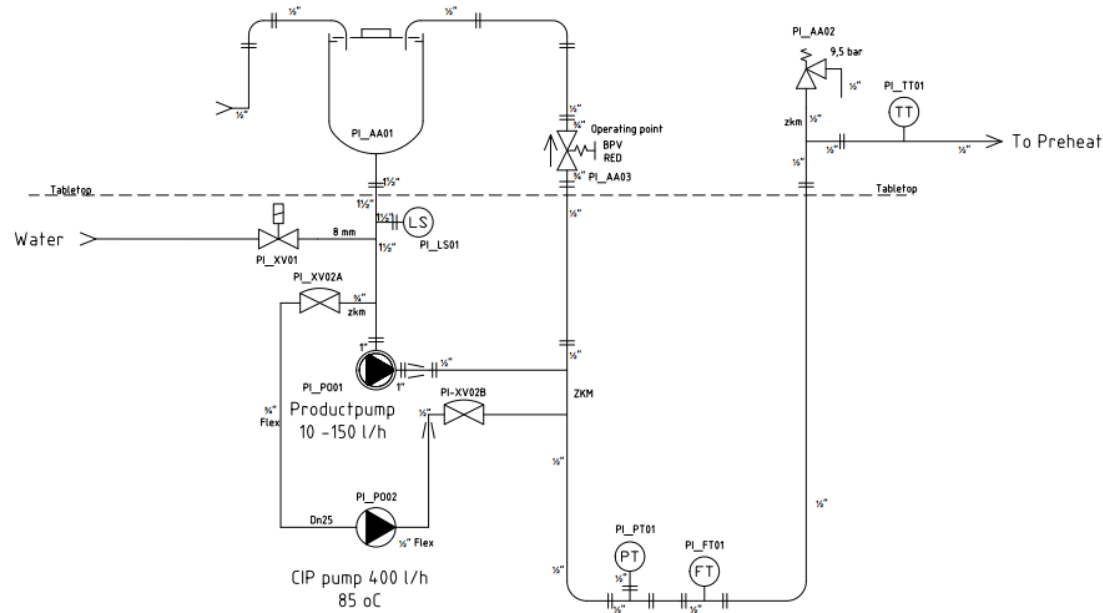
- UHT/HTST Pasteurization and Sterilization
- In less than 3 Liters
- 20 L/hour continuous processing
- Connectable with Homogenizer and Fillers
- Ideal for Product development and small scale processing.

### 3. PFD and process overflow



## Piping and Instrument Diagram/Process and Instrument Diagram.

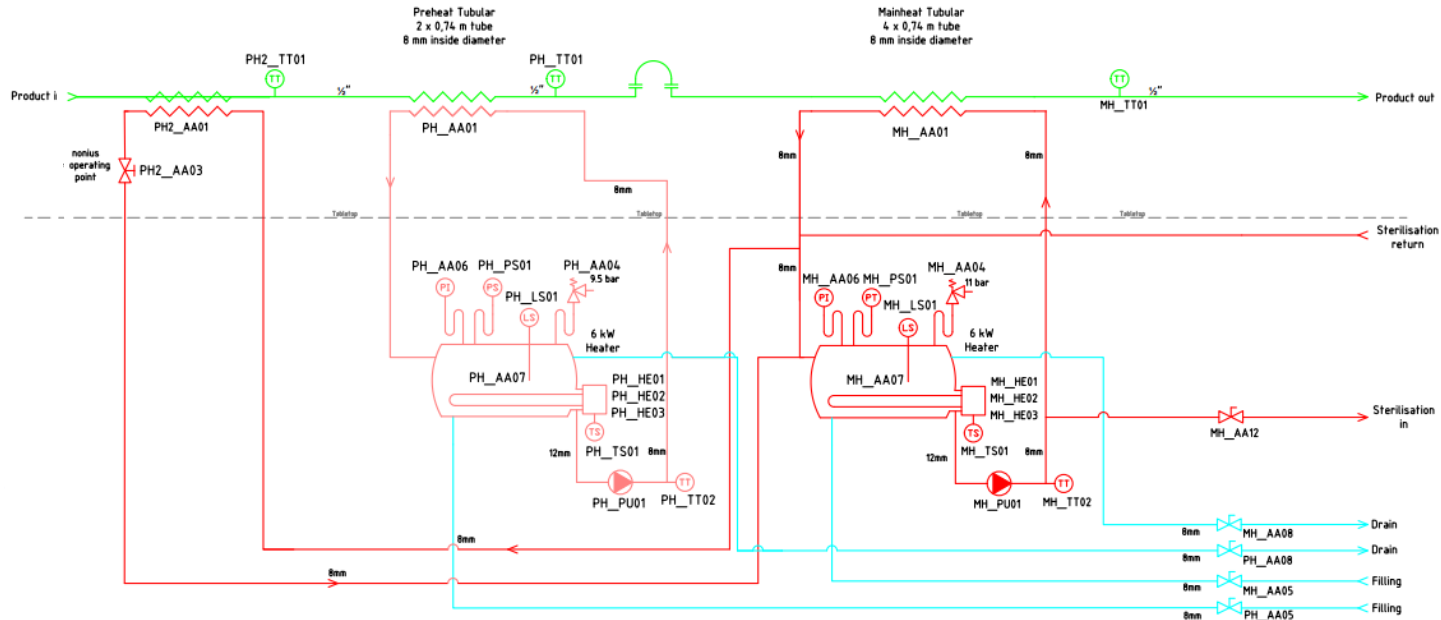
In the P&ID you will find the process flow and all the instrument that are in and on the machine.  
It's easier to find issues and malfunction of the instruments because you now were they are placed.  
Better to understand the function of the machine.



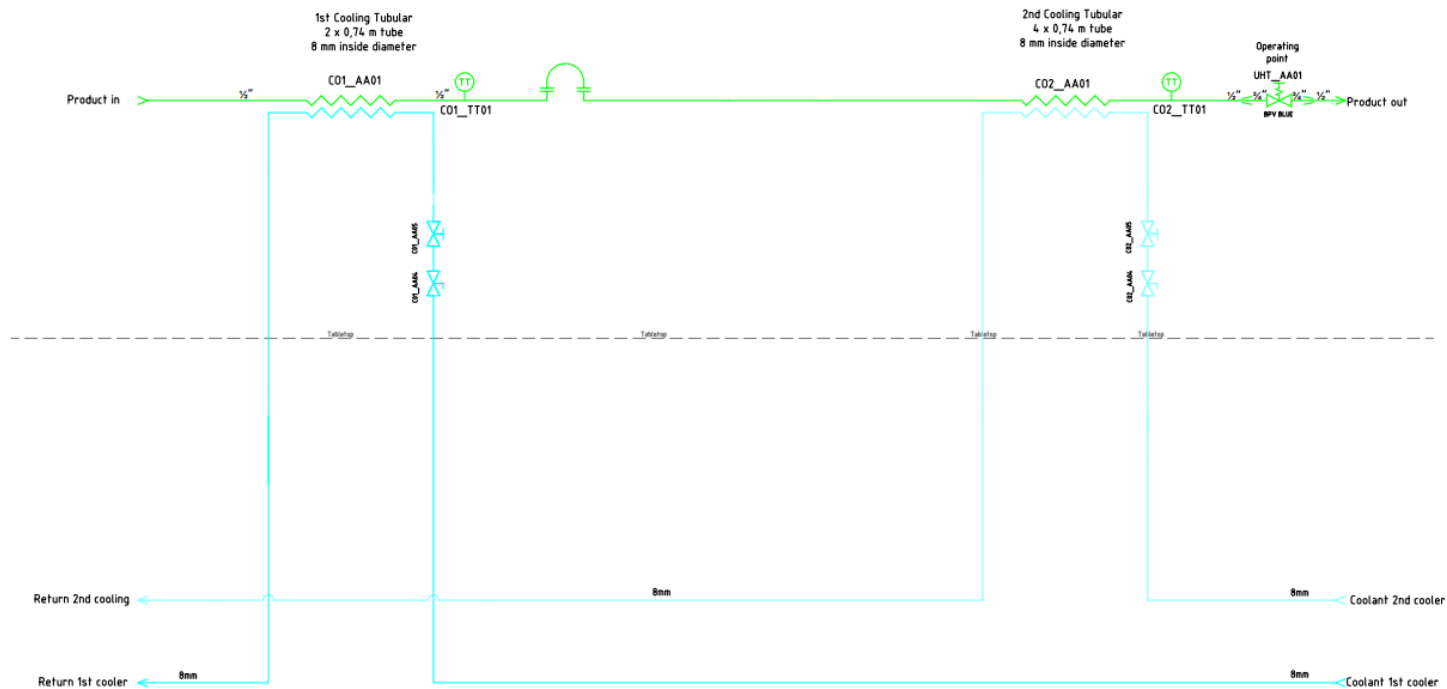
Green line=product

Red line=hot water

Blue line=softened or demineralized with a bit of salt for conductivity



Green line=product  
Blue line=cooling water



## 6. Cleaning (CIP)

OMVE advises the following dosis

Procedure	m%	°C	Min.	Notes
Prerinse water	-	50	10	Prerinse system with hot water to remove initial contamination and bring Ph to 7-8
Lye Cleaning (P3-MIP-SP, Ecolab)	2	60	40	Clean system with lye, be aware of lye fumes. Be aware for pressure release in closed system.
Intermediate rinse with water	-	60	10	Remove lye deposits and rinse back to Ph 7-8
Acid cleaning (Horolith LT, Ecolab)	1	50	20	Clean system with acid, be aware of fumes, do not exceed 60 C. be aware in case of lye deposits, this will be an exothermic reaction increasing the temperature.
Post rinse with water	-	50	10	Post rinse acid with water, remove acid deposits and return to pH 7-8



# 10. Contact

- We are available to you to assist
- By Phone Mo-Fr from 8 am till 5 pm CET (Central European Time)
- +31 30 241 00 70
- By Email 24/7
- [Support@omve.com](mailto:Support@omve.com) (we answer 98% within 24 hours)



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