(MPV

# **Fermentation**

## Full control over your process

The OMVE MPV-FE vessels are designed to startup your lab and pilot fermentation projects in a fast, easy and controlled way. The system is delivered plug & play and includes everything for you need to ferment a wide range of products. You can use the system to simulate an industrial process, but also for small production.



## Control all steps over time

The system is supplied with a PLC and touch screen. This gives you the possibility to adjust the parameters over time, based on your application. With the OMVE Fermentation program you can set and control all process steps fully automated.

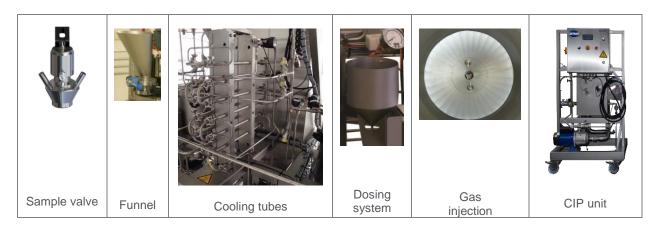


#### Instrumentation included

The fermentation equipment is supplied with a low shear mixer (low speed ribbon or a marine impeller), a temperature sensor, pH sensor and all necessary instrumentation. The system can be supplied with one two or three vessels.

Depending on the configuration and application, the supplied fermentation vessel can be pressurized or atmospheric. The pressurized vessels can be sterilized before processing. Cleaning is possible inline: the vessels are connected to the OMVE CIP units.

#### **Available Accessories**



More accessories are available



### **Specifications**

Product code	MPV220-FE	MPV350-FE	MPV3100-FE	MPV3200-FE	MPV3400-FE
Vessel sizes*	20L	50L	100L	200L	400L
Min. batch size***	5L	10L	20L	40L	80L
Pressure Vessel*	1-3 bar(g) [14,5 - 43,5psi]				
Temperature*	Up to 90°C [ 194°F]				
Materials					
Product side	SS AISI 316				
Dimensions					
LxWxH	90x90x170cm	100x90x170cm	110x110x190cm	120x110x190cm	140x120x190cm
	36x36x67"	40x36x67"	44x44x67''	48x44x67"	56x48x67"
Weight	200 – 800 kg depending on the final configuration				
Utilities					
Electricity	400V/3ph/50Hz or 220V/3ph/60Hz				
Compressed air	6bar(g) [87psi]				
Steam	3,5bar(g) [51psi]				
Cooling water	2,5bar(g) [36psi]				

<sup>\*</sup>larger vessels on request

## **Equipment family**

The OMVE Multi-Purpose Vessels are used in a very broad range of applications. Every application has its own specific requirements but can also be combined in one vessel. For more detailed information, consult our OMVE staff. The groups are divided in 4 main groups:



Blending & Mixing Vessels



Batch Cooking
Batch Processing



Aseptic Buffer Vessels Hygienic Buffer Vessels



MPV-FE Fermentation Vessel

## Why OMVE

- ✓ OMVE is fully specialized in manufacturing R&D and Pilot plant equipment since 1993
- ✓ OMVE is the preferred supplier for the leading multinationals worldwide
- OMVE Systems are designed and manufactures according the highest industrial standards
- ✓ OMVE Systems have 2 years' warrantee
- ✓ OMVE Systems are supplied with CE certification
- ✓ OMVE offers the most comprehensive service in the market





<sup>\*\*</sup>based on sterilization with steam

<sup>\*\*\*</sup>depending on final configuration