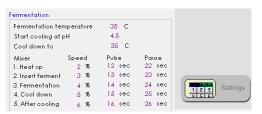
(MPV

# **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.

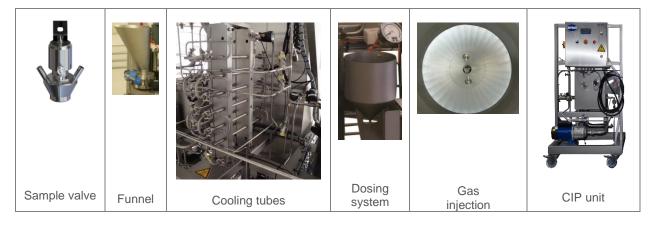


#### Instrumentation included

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        | 370-400Vac /3ph+N+E /50H or 200-240Vac /3ph+E /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

- ✓ 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.





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

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