

MPV-HB Hygienic vessels & MPV-AB Aseptic Vessels

# Aseptic & hygienic buffering

To minimize product loss



Buffer tanks give you a higher efficiency and less product loss during production. Especially on small scale often the filling & closing capacity of the filling bench is the limitation on laboratory and pilot scale. To integrate a buffer tank between the UHT and the filling bench you can create a continuous process with consistence quality. The buffer tank is fully integrated and can be controlled from the UHT system or has its own touch screen and PLC.

The OMVE MPV- buffering tanks are divided in MPV AB – Aseptic Buffering and MPV HB – Hygienic Buffering. The specifications for an Aseptic Buffer tank are higher than for the Hygienic Buffering tank. Both vessels have a double wall for heating and cooling. Both have a fully sanitary design. The systems are standard Bottom IN – Bottom OUT.

## Unique Features

- Full integration with the OMVE HTST/UHT systems
- According to industrial standards
- Adjustable to customer specification
- Modular build
- Supplied with all (safety) instruments and controls
- Automatic control

## Applications

- Baby food
- Desserts and puddings
- Fruit and vegetable juices & purees
- Health and nutritional product
- (Non) Dairy products
- Pharmaceuticals
- Sauces and soups

## Standard accessories

- Automatic pressure control
- Temperature control
- High speed mixer
- With an external CIP unit
- Instrumentation and controls
- Additional connections

*More accessories available.*

Multi-Purpose Vessels

MPV



## Specifications

|                     |   |                           |                            |                              |                              |
|---------------------|---|---------------------------|----------------------------|------------------------------|------------------------------|
| Aseptic execution   | <b>AB</b>   |                           |                            |                              |                              |
| Hygienic execution  | <b>HB</b>   |                           |                            |                              |                              |
| Product code        | <b>MPV220</b>                                       | <b>MPV350</b>             | <b>MPV3100</b>             | <b>MPV3200</b>               | <b>MPV3400</b>               |
| Vessel sizes *      | 20L   | 50L                       | 100L                       | 200L                         | 400L                         |
| Min. batch size***  | 5L  | 12L                       | 20L                        | 40L                          | 60L                          |
| Pressure **         | 3 bar(g) [43,5psi]                                  |                           |                            |                              |                              |
| Temperature ** (AB) | Up to 140°C [284°F]                                 |                           |                            |                              |                              |
| <b>Materials</b>    |   |                           |                            |                              |                              |
| Product line        | SS AISI 316   |                           |                            |                              |                              |
| <b>Dimensions</b>   |   |                           |                            |                              |                              |
| LxWxH               | 90x90x170cm<br>36x36x67"                            | 100x90x170cm<br>40x36x67" | 110x110x190cm<br>44x44x67" | 120x110x237cm<br>48x44x93.3" | 140x120x243cm<br>56x48x95.7" |
| Weight              | 200 – 800 kg depending on the final configuration   |                           |                            |                              |                              |
| <b>Utilities</b>    |   |                           |                            |                              |                              |
| 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]                                   |                           |                            |                              |                              |

\*larger vessels on request

\*\*based on sterilization with steam

\*\*\*depending on final configuration

## 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:



MPV-BL  
Blending & Mixing Vessels



MPV-BC  
Batch Cooking  
Batch Processing



MPV-AB / HB  
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.