

# SEAMLESS INFUSION VESSEL

## Maximising Efficiency while Minimising Environmental Footprint

### Reduce Fouling and Increase Run Times

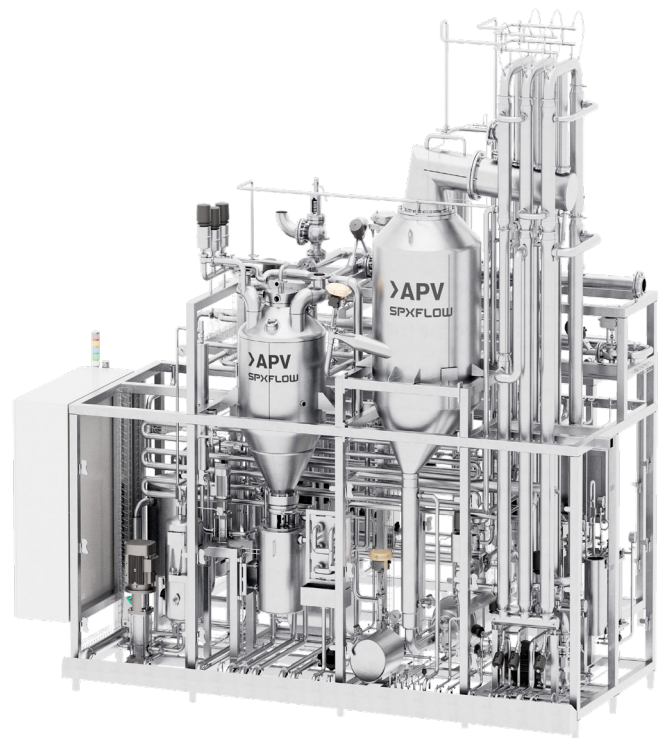
Dairy, plant-based and beverage producers often face UHT (Ultra High Temperature) processing challenges, such as product fouling, impacting efficiency. APV Seamless Infusion Vessel enhances UHT Infusion system production by minimising fouling, extending run times by up to 100 hours per year.\*

The APV Seamless Infusion Vessel prevents fouling in two ways: It has no sealing gasket between the vessel bottom and the pump housing for fouling to build-up on and it has better water-cooling on the pump casing and the impeller reducing the temperature in the connection area. By using APV Seamless Infusion Vessel, systems have shown up to 20% increase in production time between cleanings.\*

### Why choose APV Seamless Infusion Vessel?

SPX FLOW has provided leading UHT (Ultra High Temperature) processing systems for decades. Improving uptime in UHT Infusion systems not only extends production hours and boosts yield but also contributes to sustainability by reducing the need for frequent CIP (Clean-In-Place) cycles. Fewer cycles mean reduced product waste, lower water consumption and less detergent usage due to fewer shift requirements, ultimately leading to increased yields.

This holistic approach effectively lowers both operating expenses (OPEX) and the total cost of ownership (TCO) while championing sustainability.



\* Based on testing conducted at our innovation center using a pilot pump (a modified version of the commercial pump) and operating at a pilot capacity of 800 liters of skim milk per hour, the data presented above has been calculated by scaling up the test results to match the capacity of a standard industrial-scale operation processing 12,000 liters of skim milk per hour.

## Redefining Infusion Performance

Increase run times and yield while lowering product waste, energy, water, and detergent consumption with APV Seamless Infusion Vessel for your UHT Infusion system.

- Less fouling due to improved anti-fouling system with enhanced cooling
- Increase uptime with up to 20% longer production runs due to fewer CIP cycles, equaling 100 additional production hours\*
- Increase yield with up to 1.3 million more liters of milk annually in the same plant (12,000 liters skim milk per hour)\*
- Up to 30 fewer CIP cycles annually (12,000 liters skim milk per hour)\*
- Minimise losses with less fouling leading to fewer stoppages for CIP cycles
- Minimise water, detergent, and energy consumption by less fouling and CIP cycles.

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### Seamless Connection

No sealing gasket between the vessel bottom and the pump housing preventing fouling buildup and enabling longer production runs.

### Seamless Cooling

Seamless cooling of the vessel and pump house minimises fouling in the connection area allowing for longer production runs.

### Impeller Cooling

Impeller cooling to reduce fouling and extend production runs.

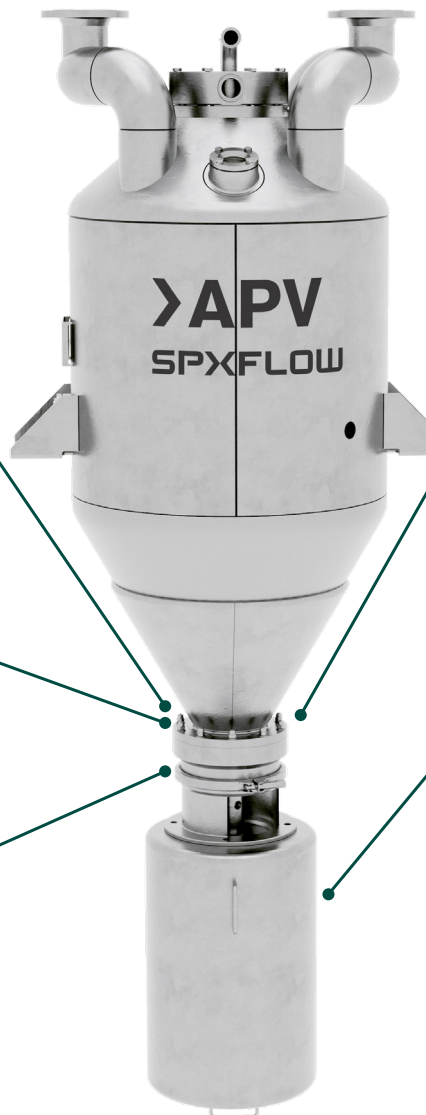
### Multipurpose Flange

Enabling the upgrade of pump size to accommodate changes in plant capacity.

### Pump Flexibility

Flexibility in pump size allows for adjustments to accommodate changes in holding, kill rate and flow capacity.

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