



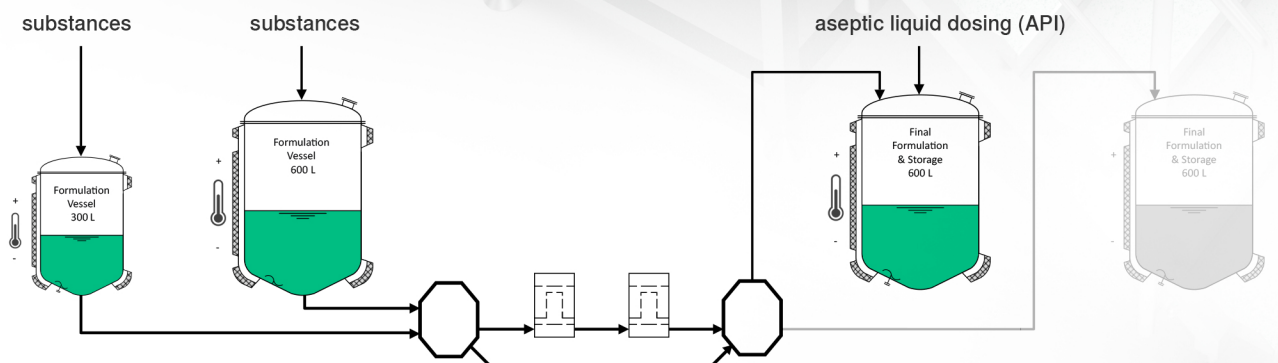
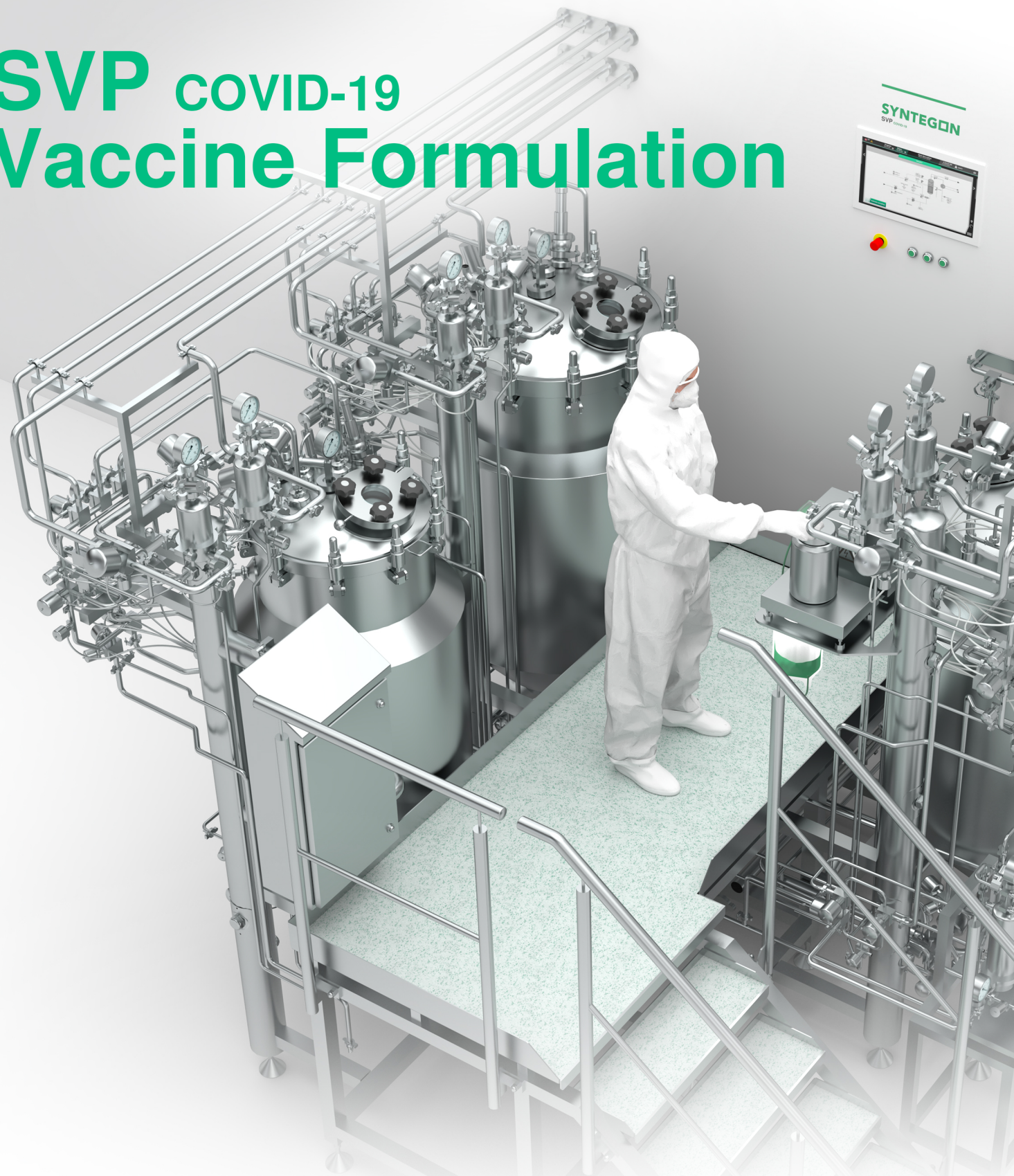
SYNTEGON

PROCESSING & PACKAGING

**Get ready for
production.**

SVP COVID-19
Vaccine Formulation

SVP COVID-19 Vaccine Formulation



+ multiple functional modules available to upgrade your process

+ additional vessel

Example configuration SVP 6021 – for 600 liter batch volume

- ❑ Dosage form: parenteral
- ❑ Characteristics: adjuvanted vaccines
- ❑ Batch volume: 90 - 600 liter (SVP 6021)
- ❑ Also available: 50 - 300 liter (SVP 3021) and 40 - 150 liter (SVP 1521)

Vessel 1 Adjuvant

included features	300 L vessel for batch sizes 30 - 300 L
	Ventilation with N ₂ headspace inertisation
	TCU heating & cooling ± 2 K in-situ adjuvant sterilization
	Magnetic mixer low shear
	Substance addition via handhole
	Disposable sampling system
optional features	Nitrogen gassing
	TCU heating & cooling ± 1 K in-situ adjuvant sterilization
	High shear mixer
	Lifting column up to 50 kg
	Sampling system reusable
	Conductivity sensor
	pH sensor
	O ₂ sensor

Vessel 2 Buffer

included features	600 L vessel for batch sizes 60 - 600 L
	Ventilation with N ₂ headspace inertisation
	TCU heating & cooling ± 2 K direct cooling & indirect heating
	Magnetic mixer low shear
	Substance addition via handhole
	Disposable sampling system
optional features	Nitrogen gassing
	TCU heating & cooling ± 1 K indirect cooling & indirect heating
	Sampling system reusable
	Conductivity sensor
	pH sensor
	O ₂ sensor

Vessel 3 Final Formulation

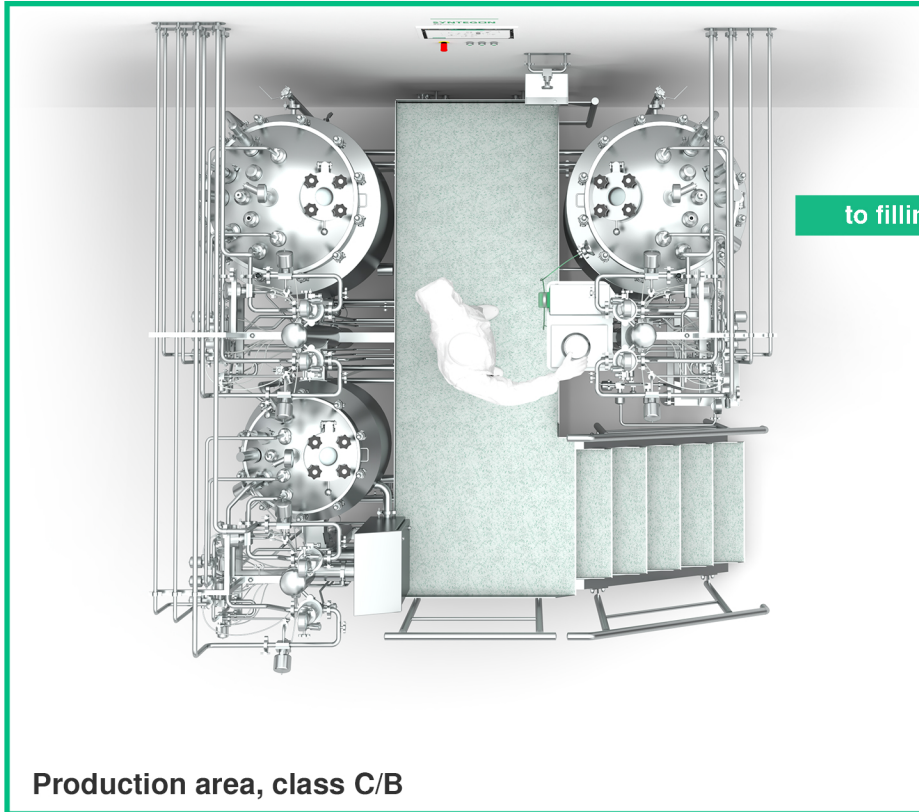
included features	600 L vessel for batch sizes 90 - 600 L
	Ventilation with N ₂ headspace inertisation
	TCU heating & cooling ± 2 K direct cooling & indirect heating
	Magnetic mixer low shear
	Dosing pump 100 to 2000 ml/min
	Disposable sampling system
optional features	Aseptic dosing of solids (API)
	TCU heating & cooling ± 1 K indirect cooling & indirect heating
	Sampling system reusable
	Conductivity sensor
	pH sensor
	O ₂ sensor

Media skid/CIP

included features	Media skid
	Integrated clean room wall
	Operator platform
	Automation System SIEMENS with 22" HMI Panel
	Automation sequencer (fixed recipes, parametrizable)
	Integrated CIP with one detergent
	Buffer filtration with pre filter and sterile filter
	Product transfer to filling machines with re-circulation and CIP
optional features	Separated productions areas for preparation and final formulation
	Internal heat exchanger for cold WFI generation
	Connection for chemical or biological contaminated waste water
	Zenon batch management system including reporting

Required clean room space

Technical area, class D, 4,5 × 1,8 m



to filling line



Production area size requirements differ by vessel volume:

SVP 1521 – for 150 liter batch volume	4,5 × 3,8 m	room height	3,0 m
SVP 3021 – for 300 liter batch volume	4,5 × 4,0 m	room height	3,5 m
SVP 6021 – for 600 liter batch volume	5,0 × 4,0 m	room height	3,5 m

- ❑ Recommended connection to a Syntegon filling line
- ❑ Individual configurations possible within the modular system
- ❑ Suitable for other vaccines as well

Contact

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