

LOAD. SET. GO.



Oceo Rover: Automated Hydration System

SINGLE-USE MANIFOLDS AND MEDIA CARTRIDGES

IMAGINE MORE

Oceo Rover

THE INTEGRATED HYDRATION SOLUTION

- Closed system - protect the product, the operator, and the environment
- Process automation - delivering consistent results
- Simplified operation and training - mitigation of process errors
- Integrated hardware and single-use manifolds - optimized for process efficiency

- A.** Primary Hydration Cartridge
- B.** Secondary Hydration Cartridge
- C.** Primary Hydration Manifold
- D.** Secondary Hydration Manifold



Note: Recirculation and liquid addition lines not shown.

SINGLE-USE MANIFOLDS

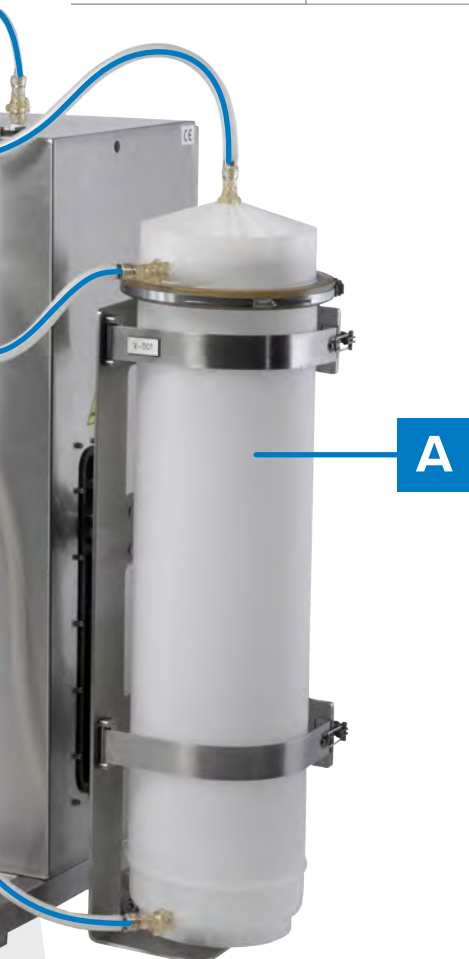
- Designed for easy loading - minimizing start up and changeover times
- Integrated single-use sensors - process monitoring and control
- Minimal hold-up volume
- Four standard designs - supports hydration processes across all volumes

MEDIA CARTRIDGES

- Contains fully-formulated, ready-to-hydrate powders
- Automated Primary Hydration Cartridge loading - eliminates manual handling concerns
- Cartridge contains a specified liquid equivalent of powder - different batch sizes are available up to 1,700 L for media or 5,000 L for buffer depending on the formulation

Description	Material of Construction	Application	Function	Capacity Media* (small/large)	Capacity Buffers* (small/large)
Primary Hydration Cartridge - small & large	Polyethylene and polypropylene	Media, feeds, and buffer	Contains the bulk of the powder to be hydrated (> 95%)	500 L / 1,700 L	1,000 L / 5,000 L
Secondary Hydration Cartridge - small & large	Polypropylene	Media and feeds	Creates the correct conditions to hydrate the components that do not dissolve readily in water at a neutral pH	500 L / 1,700 L	N/A
Primary Hydration Manifold	Braided platinum cured silicon	Media, feeds, and buffer	Required for each batch of product incorporates single-use conductivity and pressure sensors	All processes	All processes
Secondary Hydration Manifold	Braided platinum cured silicon	Media and feeds	Required when using secondary hydration cartridge	Process-dependent	N/A
Recirculation Manifold	Pump tubing	Media, feeds, and buffer	Drives hydration processes without the addition of excess water <i>e.g. when manufacturing buffer concentrates</i>	Process-dependent	Process-dependent
Liquid Addition Line	Platinum cured silicon	Media and feeds	For the addition of material that cannot be supplied in a powder format	Process-dependent	N/A

*Capacity media and buffers defined by formulation



QUALITY

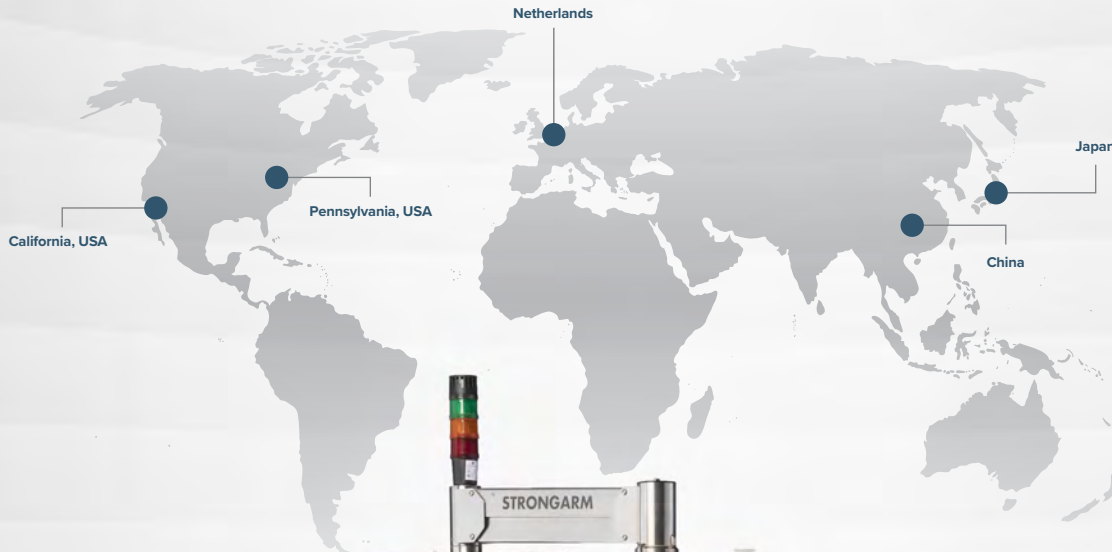
- USP <88> Class VI
- 21 CFR 177.1520
- Animal-derived and animal component-free or meets the requirements of EMA/410/01, Rev. 3
- Non-irradiated

SUPPORT

- Media development, identify your optimal media formulation
- Media balancing for use in Oceo Rover
- Automation recipe development
- Installation and validation (FAT, SAT, and IQ/OQ)
- Technical support and operator training
- Extended warranty and service support available

ENABLING THE FUTURE OF MANUFACTURING

ALIGNING WORLDWIDE OPERATIONS TO MEET GLOBAL DEMANDS



Find out more about
Oceo Rover

irvinesci.com/oceorover
Schedule a demonstration today.

LOAD

the prepacked
cartridge onto the skid.

SET

the pre-programmed
hydration protocol.

GO

fully automated
hydration allows for
step-away operation.

IMAGINE MORE

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Value from Innovation

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