

## Fuel Storage Modules

High-pressure fuel storage modules maximize hydrogen availability in the industry's smallest footprint.

Fuel storage modules produced by BayoTech™ are ideal for long-term bulk hydrogen storage. High-pressure, high-capacity cylinders are rack mounted in secure storage pods. The number of cylinders can be increased over time, to match growing hydrogen demand. The compact container footprint makes for a flexible hydrogen storage option, suitable to support fuel cell vehicle refueling stations, backup power at critical infrastructure sites or on-site hydrogen production.

Unlike liquid hydrogen storage, there is no concern of the vaporization of the hydrogen supply. A transducer-based telemetry system remotely monitors the location and pressure of the module, eliminating the need for routine maintenance visits.

Cylinders are fitted with a proprietary 1/4-turn valve with an integrated, CG-10 thermal relief device which permits evacuation of the cylinder contents within 90 seconds after actuation regardless of the cylinder pressure. The proprietary valves allow for easy opening and closing while providing the operator an easy visual indicator of the valves condition.

Best in class safety features include thermally-activated pressure relief devices, welded manifold connections for leak prevention and rapidly venting cylinders.

## FEATURES

- » Lightweight, high-capacity Type III cylinders (non-permeable, aluminum liner wrapped in carbon fiber)
- » Rack-mount, cylinder-based system is modular to scale with demand
- » Compact footprint
- » Industry-leading safety features
- » Transducer-based telemetry system for remote monitoring

## APPLICATIONS

### Hydrogen storage for:

- » Fuel cell backup power at critical infrastructure sites
- » Fuel cell vehicle refueling stations
- » Hydrogen production sites
- » Renewable energy micro-grid sites with electrolysis

## FUEL STORAGE MODULES

	FSM30-250	FSM60-250	FSM30-350	FSM60-350
<b>Working pressure</b>	250 bar / 3,600 psig*		350 bar / 5,075 psig**	
<b>Cylinder water volume (scf)</b>	275 ltr / 9.72 scf			
<b># of cylinders</b>	30	60	30	60
<b>Total water volume (scf)</b>	291.5	583.0	291.5	583.0
<b>Hydrogen capacity (scf)</b>	61,940	123,880	82,510	165,020
<b>Hydrogen capacity (kgs)</b>	146.4	292.9	195.1	390.1
<b>Tare weight (lbs)</b>	13,000	21,300	16,000	28,700
<b>Gross weight (lbs)</b>	13,322	21,994	16,429	29,558
<b>Pod dimensions (WxHxL)</b>	8' x 9.5' x 10'	8' x 9.5' x 20'	8' x 9.5' x 10'	8' x 9.5' x 20'
<b>Notes</b>		20'HC ISO		20'HC ISO

\* Supports up to 450 bar

\*\* Supports up to 520 bar

Specifications are subject to change without notice. Updated 9/2021.

**FOR MORE INFORMATION, OR TO CONTACT US,  
PLEASE VISIT [WWW.BAYOTECH.US](http://WWW.BAYOTECH.US)**