

## Proton OnSite White Paper Series

# One Hydrogen Generator To Serve All Of Your Lab Needs

Laboratories performing Gas Chromatography (GC) processes are familiar with the problems associated with relying on liquid hydrogen tanks or compressed gas storage for their carrier and fuel gas needs. From safety to cost, efficiency, and reliability, on-site hydrogen generation is a far better option for supplying labs with the hydrogen carrier and fuel gas they need.

Small labs can meet their needs for a pure, constant, and safe supply of hydrogen with benchtop generators, but using many small generators is not an economically viable option for large lab facilities that operate tens to hundreds of gas chromatographers.

Large lab facilities looking to take advantage of the benefits of onsite hydrogen generation can install a single, larger Proton OnSite® hydrogen generator and plumb it into each lab as a 'Lab Server', capable of providing a stream of gas at the flick of a switch, anywhere in the building.

Proton OnSite's large Proton Exchange Membrane (PEM) electrolyzers are the only generators with the ability to run as a Lab Server. One Proton OnSite S Series hydrogen generator can supply up to 200 GC units with ultra high-purity hydrogen gas that can be maintained, managed, and monitored from a single source, ensuring constant pressure, flow, and purity throughout the building.

### SAFE

Proton OnSite's hydrogen gas generators produce hydrogen on-demand, eliminating the explosion risks and safety regulation costs associated with stored hydrogen cylinders.

### COST-EFFECTIVE

On-site hydrogen generators have lower operating costs, minimal safety requirements, and require very little maintenance.

### EFFICIENT

An on-site hydrogen generator can supply gas continuously, without the need to exchange tanks. So your lab can continue working, even when you're not.

### EASY

Proton OnSite's hydrogen gas generators can be installed in a few hours and require only water and electricity to supply your entire lab with reliable, pure hydrogen

## Proton OnSite S Series



With a production rate of 4.8 to 18.8 SLPM, Proton OnSite's compact Proton® S Series hydrogen generators produce the equivalent of four cylinders of better-than- UHP grade hydrogen every day.

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