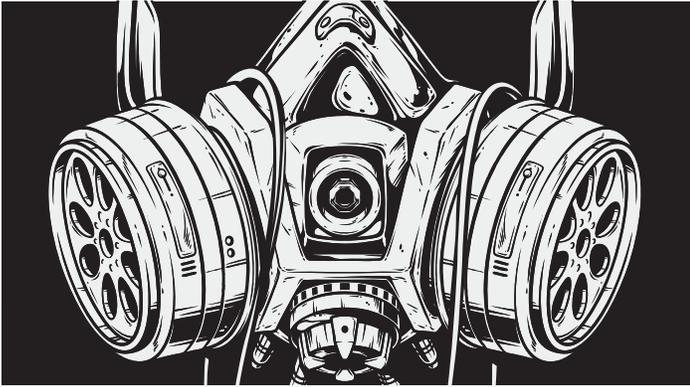


TECHNICAL BRIEF

Smart Tech Extends Operational Readiness in Harsh Environments



Hybrid respirators are those respirators that provide multiple modes of respiratory protection in either a positive air pressure mode of; Self Contained Breathing [SCBA], Powered Air Purifying [PAPR], or Supplied Air [SAR] or in a negative pressure air mode of Air Purifying [APR] within a single chassis mode system.

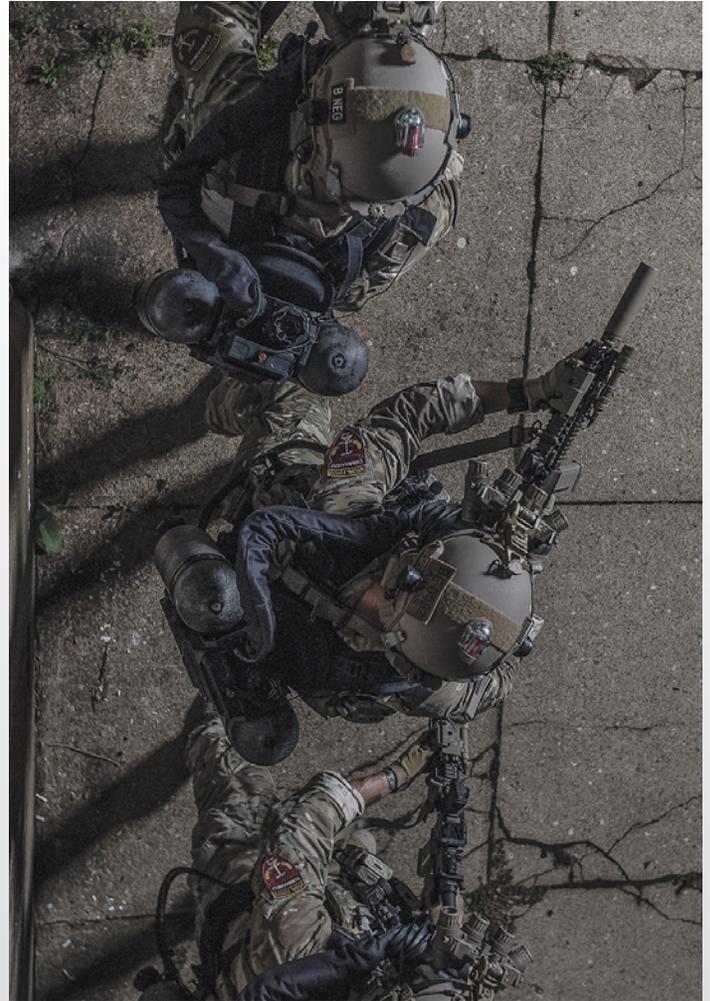


A respirator is a device designed to protect the wearer from inhaling hazardous atmospheres.

Switching between the different modes of protection is done by the end user when the air quality dictates it. The switch between modes is electronic and does not require the end user to make any manual or physical changes to the respirator chassis. The most significant advantage of deploying with a hybrid respirator is availability of options; these options include the ability to switch between modes of respiratory protection to preserve their compressed air supply in SCBA, their battery life for PAPR mode or both by utilizing SAR or APR mode. Having these options available in a single chassis system provides the first responder with the luxury of duration. Duration allows for the end user to remain on scene to resolve a situation, render first aid, rescue the innocent, collect evidence, or to document a scene to list a few.

The Wilcox Hybrid Patriot 5510®, or simply the “5510”, is that “smart” hybrid respirator which offers all four [4] modes of respiratory protection, [SCBA, PAPR, SAR and APR] in a single backpack worn chassis. With man-down and VIP extraction options, the Hybrid Patriot 5510 is the only hybrid respiratory of its kind to be fully approved / certified as a dual-mode system. The Hybrid Patriot 5510 was built off of the combat proven design and legacy of our Gen1 Patriot System, which had been tested and approved for use since 1999 by numerous Department of Defense/ First Responders and Anti-Terrorist units in the United States and around the world.

The Hybrid Patriot 5510’s built-in Bluetooth connectivity gives it the “smart” designee. Deployments within mega-city urban environments or battlefield[s] will require operators to remain operationally ready for extended periods of time. This extended time capability will necessitate that the command / control center be capable of monitoring the respiratory equipment donned by these teams, as well as the physiological conditions of each operator.



Download the [Patriot 5510 datasheet](#) for additional technical information.

Vital information then can be shared to and from the command center down to the individual operator. The Hybrid Patriot 5510’s Bluetooth option also has the ability to geo-locate each operator and provide real-time situational assessments of changing conditions by syncing with an array of weather sensors, gas detection devices, drones and cameras, all offering the first responder distinct advantages.

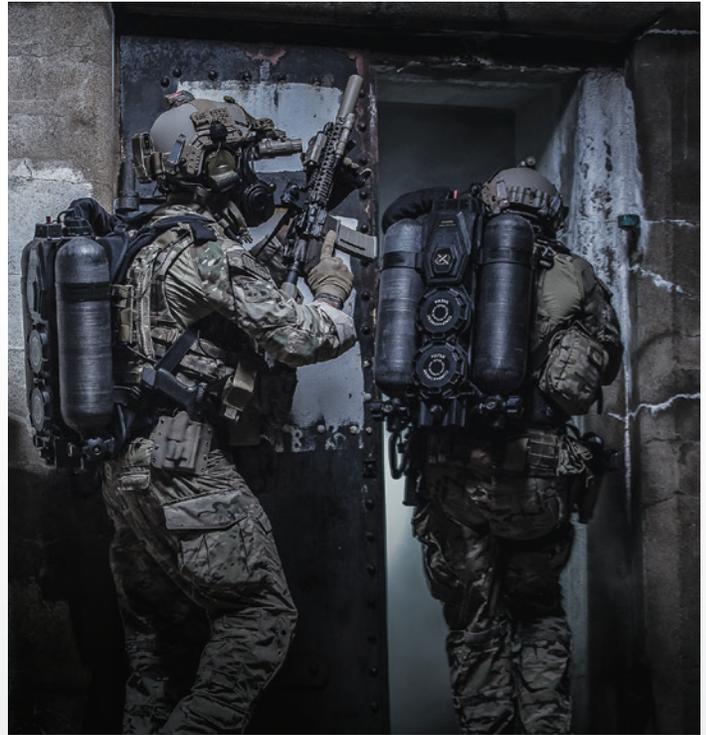


Mobile software enables the rapid formation of tactical teams and facilitates information sharing amongst team members.

In the late 1990's, Wilcox Industries was the first to design and manufacture a Hybrid Life Support System. At Wilcox we remain laser focused on our customer's safety in providing the best equipment to succeed in challenging situations. The Patriot Hybrid 5510®, is one example of that commitment.



For additional information, [view the Hybrid Patriot 5510 product page](#).
For general information about Wilcox and our products [contact us directly](#),
or [download our Product Catalog](#).



SHARED SITUATIONAL AWARENESS

- Monitoring and sharing of PSI/BAR
- Monitoring and sharing of operating mode
- Monitoring and sharing of battery and power
- Alerts when other team members exceed thresholds
- Receive and acknowledgment of PAR checks and EVACS
- Integrates with Blueforce cognitive services/AI
- Plugin for MSA ALTAIR 4xr and 5x multi-gas sensors
- Plugin for Samsung GEAR S3 watch/wearable
- Storage of events for after-action and maintenance



©2023 Wilcox Industries Corp. All rights reserved. WILCOX® is a Registered Trademark of Wilcox Industries Corp. Modular by Design is a trademark of Wilcox Industries Corp. Specifications subject to change without notice. The Wilcox HYBRID PATRIOT 5510 is patent pending. "Hybrid PATRIOT 5510 ®" is a federally registered trademark of Wilcox Industries Corp. Technical Data regulated and restricted by the EAR, U.S. Department of Commerce. May require a license prior to Foreign National Access.

25 PISCATAQUA DRIVE | NEWINGTON NH, 03801 | 603.431.1331 | WWW.WILCOXIND.COM