

Contact Information:  
Research International, Inc.  
Mr. Elric Saaski  
17161 Beaton Road SE, Monroe, WA 98272-1034  
Phone: 360-805-4930 • Fax: 360-863-0439



**SASS 4000  
Aerosol Concentrator**



**SASS 2300 Wetted-Wall  
Air Sampler**

## **SASS 4000/SASS 2300 Combo Selected by Italian Government**

Monroe, Washington- Research International, Inc., a supplier of innovative equipment in the fight against terrorism, was notified that the Italian government has selected some of its aerosol collection products for use by the Italian armed forces. Specifically, a combination product has been selected for purchase consisting of the SASS 4000 concentrator coupled to the SASS 2300 wet sampler. A comparatively small number of evaluation units have been purchased at this point, but it is expected that a larger number of systems will be purchased once operating experience has been gained.

“We had competition on that procurement,” noted Elric Saaski, CEO. “I suspect our large overall air sampling rate, coupled with relatively low power consumption and a competitive price, were key factors in our favor. Prior equipment purchased by Italy was able to process only about 750 LPM of air, whereas we are at 3600 LPM, and at a lower overall electric power draw!”

It typically takes from two to 5 years to get a world government to commit on a large capital equipment purchase like this. But the SASS 4000’s outstanding ability to pull in and process air has resulted in this world government purchase less than a year after the product was introduced. Several other EU countries are also interested, and the outcome in Italy is expected to weigh strongly in our favor.

The Italian government plans to use the SASS 4000 as a preconcentrator for the SASS 2300. Under nominal conditions, the SASS 4000 will process 3600 LPM of air in a totally dry fashion, transferring a majority of particulates in that airflow to a smaller secondary airflow of 300 LPM. That aerosol concentrate will flow into the SASS2300. By doing this, the Italians will increase the sampled airflow by 10X, yet will not have the logistics associated with carrying large amounts of water to compensate for evaporation at the larger air flow rate. Conversely, any heating of incoming air to keep the wet sampler from freezing up at low temperature is also made easier.

Another advantage they have is that the SASS 4000 may be retrofit at some point in the future to operate as a SASS 4100. That would

allow them to enjoy equal or better collection performance at the full 3600 LPM throughput, but with a completely dry collection method that is not be limited to above-freezing conditions.

Prior to running a bioassay, however, particulates would need to be extracted from the SASS 4100's filter with a buffer water solution, such as can be done with the SASS 3010. While this can be done in less than a minute, which method is more advantageous will depend on the specific application.

#### **About Research International**

Research International is an 18-year old, locally owned, high-technology company specializing in the development and manufacture of sensing systems. It has provided equipment for counter-terrorism applications worldwide for over 10 years.

Research International emphasizes total solutions that span biochemistry, optics, electronics, fluid dynamics and physical packaging. The company also provides R&D services in the broad areas of physical and chemical sensing.