

## *HURRICANE HOOD™* Category-3 (CAT-3)

# Got oxygen?

are you tired of  
**SWEATING** to death?



Provides OVER 33 CFM of filtered air flow. This is MORE THAN 5 TIMES the amount of air from any powered air visor on the market!



Shown with Radium's optional Hi-Resolution Color Wireless Video Camera. Hurricane Hoods are designed with lightweight materials.

(Hood not shown for clarity)



A very thin (3/4" Thick) power belt supplies power to the system for 3 - 6 Hours depending on options. Optional 3-hour extended pack available.

(Poly sleeving not shown)



## 500% More Air!

## 500% Cooler!

### The **HURRICANE HOOD**

### **BLOWS AWAY**

### the competition!

Radium Incorporated (Radium) set out on a mission to develop the ultimate personal breathing and cooling system for the nuclear power industry worker. For decades, nuclear workers had no choice but to use respiratory protection products that made it difficult to breathe, were obstructive to use, and created an extremely hot and stressful environment to work. The Hurricane Hood™ line of products is the industry solution for a problem that has lingered long enough.

Radium's experience in steam generator nozzle dam services played an important role in the development of the Hurricane Hood. One of the design goals was to develop a system that could be used by nozzle dam technicians to install or remove dams, one of the most physically and mentally demanding industry jobs. It had to be a compact system that would not obstruct the technician from entering or exiting the channel head through a 16" manway and provide ample air flow. The Hurricane Hood CAT-3 is the solution.

# HURRICANE HOOD™ CAT-3

Radium's patent pending design utilizes a bubble hood which is used in the industry and preferred by most nozzle dam installation technicians as the basis for the design. Next, Radium's engineers separated the components of a typical Powered Air Purifying Respirator (PAPR) because a standard PAPR would not allow a technician to enter the channel head due to the massive size of the battery pack/filter assembly. Separating these components offers several advantages.



## HURRICANE HOOD CAT-3 ADVANTAGES >>>>>

- > Eliminated all hoses! – removes a serious safety hazard of crimping and cutting hoses
- > High performance lightweight blower with optimized air flow path
- > Innovative Halo Band design provides the following features:
  - adjustable harness assembly to secure the Hurricane Hood to your head
  - integrated roller bearing mechanism that allows the user to rotate their head
  - a designated area to secure a Teledose dosimeter on the users' head
  - provides a mounting support for an optional lightweight wireless camera.
- > Powered by a very thin (only 3/4" thick!) adjustable power belt configured with 2 banks of 12 volt batteries to supply power to the hood for up to 6 hours.
- > Optional 3rd 12 volt battery bank for additional equipment or extended use
- > Electrical connectors have a locking mechanism to prevent accidental disconnection
- > The power belt buckle is made from heavy duty thermal plastic that requires a double action to disconnect
- > The power belt can be sleeved in poly sleeving and worn on the outside of your outer protective clothing (PCs) to allow for quick in the field swaps without removing the user's outer layer PCs
- > The batteries can be recharged in 15 minutes; minimizes the amount of batteries needed for operations and future potential hazardous radiological waste.

Contact Radium today for your Hurricane Hoods and start to reap the rewards of a nuclear workforce that is more efficient and less likely to make mistakes because they are in a less stressful and safer personal environment.

## Hurricane Hood CAT-3 vs. Trend® Airshield

Hurricane Hood™ CAT-3	Trend® Airshield
Designed for use in the Nuclear Power Industry in particular steam generator maintenance including nozzle dam installation and cavity decontamination operations.	Designed to protect individuals from dust in Woodworking, Pottery, Dental Laboratories and other non-industrial environments.
Provides over 33 CFM of filtered air which is more than 5 times the amount of air that the Airshield provides and over 5 times the amount of air NIOSH approves (6 CFM) for a Powered Air Purifying Respirator (PAPR) <ul style="list-style-type: none"> <li>• More air to breathe</li> <li>• More air to cool the user</li> </ul>	Only provides 6.36 CFM with a clean filter and fully charged battery. The 3M Power Visor only provides 4.6 CFM.  Airshield manual warns that "At very high work rates, the pressure in powered respirators may become negative at peak inhalation."
Uses a Bubble Hood which allows for clear unobstructed view.	Very limited visibility.
Very low profile battery belt is easily replaceable in a contaminated area if it is worn externally on your outer protective clothing.	Battery replacement requires disassembly of the Airshield which means the individual will need to exit the RCA and undress to replace the battery.
Supplied batteries take 15 minutes to recharge.	Supplied batteries take 14 hours to recharge.
Supplied with a roller bearing rotation ring to give the user the ability to rotate their head.	Can restrict head movement from side to side and rotation due to its' design.
Can be provided with a wireless camera and communications.	No optional equipment.
Can use under the helmet communication headsets for added comfort.	Can use communication headsets.
Hood provides 100% coverage of the head to prevent the user from being contaminated.	Design only provides partial (front) containment of the head area.