

# Meeting the Needs of First Responders and Receivers



## 3M™ Breathe Easy™ (RBE) for Responders Powered Air Purifying Respirator (PAPR) Systems

3M is pleased to announce the following National Institute for Occupational Safety and Health (NIOSH) approved CBRN PAPR Systems: RBE-L10 with Primary Lithium Battery and RBE-NM10 with NiMH Battery. These powered air purifying respirator systems help provide protection against CBRN particulates, gases and vapors. Uniquely designed for first responder, and public health professionals.

### Key Benefits:

- Approved to NIOSH CBRN Loose-Fitting PAPR Standard
- 3M™ Cartridge RBE-57 meets NIOSH CBRN "Cap 1" requirements against stringent test chemical agents; high efficiency particulate filtration (99.97%)
- Lightweight, one size butyl rubber hood provides a wide field of vision, no test requirements and ability to use with eye glasses and facial hair
- Continuously filtered air flow for maximum comfort to help workers focus on their jobs for longer periods
- System functions with two battery options:
  - Lithium Battery – up to 12 hours of use\*
  - NiMH Battery – up to 8 hours of use and 90% charged in 2 hours\*
- 3M durable bag safely stores the system in one place and allows for quick access in an emergency
- 3M's unmatched customer service and technological expertise offer customers peace of mind

\*Battery duration will vary depending on the age of cells, temperature and filter loading

## 3M™ Breathe Easy™ (RBE) for Responders PAPR Systems RBE-L10 and RBE-NM10



- A) Butyl Rubber Hood
- B) PAPR Unit
- C) Waist Belt, Decon
- D) Breathing Tube
- E) Breathing Tube Clamp
- F) Duffle Bag
- G) Cartridges (shown packaged and unpackaged)
- H) Air Flow Indicator
- I) Lithium Battery (non-rechargeable) for RBE-L10
- J) Nickel Metal Hydride Battery (NiMH) (rechargeable) for RBE-NM10

### Optional Accessories



**3M™ Shower Cover RBE-SC:** Cover enables device to be used in wet conditions and be showered or wiped clean for decontamination. (Note: product and components cannot be submerged in water)



**3M™ Communication Device RBE-CMH:** State-of-the-art communication system for superior person-to-person communication and versatility to be worn anywhere on the body.



**3M™ Training Cartridge RBE-TRN:** Bright red training cartridges\*\* allow for on-going, affordable training and provide a clear differentiation from functioning cartridges.

\*\*Training cartridges are not NIOSH-approved for respiratory protection

Specifications	Description
Heat and flame resistance	Not designed for use in high temperature environments or exposure to sparks or flame
Battery packs	Lithium primary battery (non-rechargeable) – up to 12 hours of use and has a 10-year shelf life Nickel metal hydride (NiMH) battery – up to 8 hours of use per charge; 90% charge in 2 hours for completely discharged battery
Charger	Maintains nickel metal hydride battery. 90% charge in 2 hours for completely discharged battery Can be grouped together to form multicharger (up to 10 units)
Airflow range	Greater than 6 scfm (170 lpm)
Weight of blower and battery pack	Turbo unit with 3M Cartridge RBE-57: approximately 4 lbs (1830 g)
Battery pack (NiMH)	Approximately 1.8 lb (830 g)
Battery pack (Lithium)	Approximately 1.0 lb (450 g)
System operating temperatures	10° to 120° F (-12° to 49° C)
Battery charging temperatures	NiMH: 50° to 90° F (10° to 32° C)
Hood material	Butyl rubber
Cartridge	“Cap 1” approved cartridge. Minimum test life of 15 minutes against NIOSH test agent concentrations
Storage temperatures	The recommended dry storage conditions (less than 85% relative humidity) for the battery is -4° to 115° F (-20° to 45° C). Storage of the battery outside this range will shorten the usable life of the battery. Avoid prolonged storage at temperatures above 120° F (49° C)
Systems	Description
Part Number	Description
RBE-L10	3M Turbo PAPR Unit 022-00-03R01, 3M Rubber Hood BE-10BR, 3M Breathing Tube RBE-BTH, 3M Decon Belt RBE-BLT, 3M Cartridges RBE-57, 3M Battery Pack 520-04-57R01 (Lithium – non-rechargeable), 3M Air Flow Indicator 520-01-21.
RBE-NM10	3M Turbo PAPR Unit 022-00-03R01, 3M Rubber Hood BE-10BR, 3M Breathing Tube RBE-BTH, 3M Decon Belt RBE-BLT, 3M Cartridges RBE-57, 3M Battery Pack BP-15, (NiMH – rechargeable), 3M Air Flow Indicator 520-01-21. This system does not include battery charger.
Components	Description
Part Number	Description
RBE-BTH	3M Breathing Tube, Hood 1/Case
RBE-BLT	3M Decon Belt 1/Case
RBE-57	3M Cartridge, Hood 6/Case
022-00-03R01	3M Breathe Easy Turbo Powered Air Purifying Respirator (PAPR) Unit 1/Case
520-04-57R01	3M Battery Pack Lithium (non-rechargeable) 1/Case
BP-15	3M Battery Pack, NiMH (rechargeable) 1/Case
BC-210	3M Smart Battery Charger 1/Case
520-01-21	3M Air Flow Indicator 1/Case
BLT-100	3M Belt Buckle 1/Case
RBE-CMP	3M Breathing Tube Clamp 1/Case
Optional Parts	Description
Part Number	Description
RBE-SC	3M Shower Cover 2/Case
RBE-TRN	3M Training Cartridge (red) 3/Case
RBE-MIC	3M Microphone 1/Case
RBE-CMH	3M Communication Device, Hood 1/Case



#### ⚠ WARNING

These respirators help protect against certain airborne contaminants. **Misuse may result in serious bodily injury or death.** For proper use, see supervisor, or call 3M OH&ESD Technical Service at 1-800-243-4630. *User Instructions* provided as a part of product packaging.



**General Offices**  
**3M Center**  
 St. Paul, MN 55144-1000  
[www.3M.com](http://www.3M.com)

#### For More Information

Sales Assistance: 1-800-328-1667  
 Technical Assistance: 1-800-243-4630  
 Website: [www.3M.com/OccSafety](http://www.3M.com/OccSafety)

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