

Responding to Your Call for More Effective CBRN Protection

Four Tight Fitting PAPR Systems for CBRN Applications from 3M

The National Institute for Occupational Safety and Health (NIOSH) recently approved 3M™ Breathe Easy™ RBE Tight Fitting Powered Air Purifying Respirator (PAPR) Systems for Chemical, Biological, Radiological and Nuclear (CBRN) applications. Four PAPR assemblies combined with your choice of two comfortable and effective tight fitting facepieces as well as other options make these systems the smart choice for first responders, law enforcement and security personnel.

Key Benefits:

- Approved to NIOSH CBRN Tight Fitting PAPR Standards. Can be used for escape above Immediately Dangerous to Life or Health (IDLH) when oxygen concentrations are at least 19.5%
- 3M™ Canister RBE-40 meets NIOSH CBRN “Cap 1” requirements for chemical test agents and provides high efficiency particulate filtration (99.97%)
- Effective training with bright red training cartridges allow easy, ongoing and affordable training*
- 3M™ Duffle Bag RBE-DFL provides better protection during storage and transit
- Continuously filtered airflow for greater comfort and user confidence
- Choice of battery. Select a Lithium battery with up to 12 hours of use or a rechargeable NiMH battery with up to 8 hours of use with 90% recharge in 2 hours**
- Choice of vest or belt for support of assembly components
- Can be cleaned/decontaminated after use. Canister and battery must be covered for showering. Components cannot be submerged in water
- Lightweight and comfortable promoting less-restricted movement and longer wear time

* Training cartridges are not NIOSH-approved and must not be used for respiratory protection.

** See the back for storage conditions for the batteries.

Step 1 – Select a tight fitting facepiece to use with one of the four assemblies



3M™ Full Facepiece FR-7800B

This facepiece has been used effectively for respiratory protection for many years in numerous applications. It is comfortable and user-friendly. Its use with our CBRN-approved tight fitting respiratory assemblies is a natural fit.



3M™ Full Facepiece FR-M40B

This facepiece has been used by U.S. Armed Forces all around the world. It has been tested and complies with NIOSH requirements for tight fitting CBRN applications.

Step 2 – Select one of these four tight fitting PAPR assemblies

- 3M™ Tight Fitting PAPR Assembly RBE-LB with Lithium Battery and Belt
- 3M™ Tight Fitting PAPR Assembly RBE-NMB with NiMH Battery and Belt
- 3M™ Tight Fitting PAPR Assembly RBE-LV with Lithium Battery and Vest
- 3M™ Tight Fitting PAPR Assembly RBE-NMV with NiMH Battery and Vest



Assembly Components (facepiece is purchased separately)

1. Canisters RBE-40 (shown packaged and unpackaged)
2. Breathing Tube with Clamp RBE-BTB
3. Turbo PAPR Unit 022-00-03R01
4. Battery Pack (depends on assembly selected)
 - NiMH BP-15 – Lithium 520-04-57R01
5. Mounting/Support (depends on assembly selected)
 - Decon Belt RBE-BLT – Vest RBE-VST
6. Airflow Indicator AFI-100
7. Duffle Storage Bag RBE-DFL

Note: See back for specifications and ordering information

Optional Parts:

3M™ Communication Device RBE-CM7 (for use with FR-7800B facepiece):

Take the front cover off the facepiece and replace it with the front cover of the communication device (it has a built-in microphone). Then simply plug the amplifier wire into the cover. The speaker can be clipped onto the wearer in a convenient location. Uses two standard AA batteries.



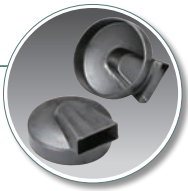
3M™ Communication Device RBE-CM4 (for use with FR-M40B facepiece):

State-of-the-art device allows the user to communicate with others during an emergency. The microphone screws onto the front of the facepiece. Uses a standard 9V battery.



3M™ Canister Shower Cover RBE-SC:

Unique water-resistant cover protects the canisters from water damage during use and allows it to be showered or wiped clean for decontamination.



Note: Product and its components cannot be submerged in water.

3M™ Battery Shower Cover 529-01-56R01:

Protects the battery during use and for shower decontamination.



3M™ Training Cartridge RBE-TRN:

Bright red training cartridge is used for training purposes only.* The red color is a clear differentiation from the actual functioning canisters.



* Training cartridges are not NIOSH-approved and must not be used for respiratory protection.

⚠ WARNING

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



Specifications	Description
Heat and Flame Resistance	Not designed for use in high temperature environments or exposure to sparks and flame
Canister	“Cap 1” approved canister. Minimum test life of 15 minutes against NIOSH test agent concentrations. 5-year shelf life with cap and plug in place in original packaging
Battery Storage Temperatures	The recommended dry storage conditions (less than 85% relative humidity) for batteries 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)
Battery Pack, NiMH	Approximately 1.8 lb (830 g). Up to 8 hours of use per charge
Charger	For NiMH battery only. Multiple chargers can be linked up to charge up to 10 batteries at the same time. 90% charge in 2 hours for completely discharged battery
Battery Pack, Lithium	Approximately 1.0 lb (450 g). Up to 12 hours of use with a 10-year shelf life
Airflow Range	Greater than 4 cfm (113 lpm)
System Operating Temperature	With NiMH Battery Pack: 10° to 120°F (-12° to 49°C) With Lithium Battery Pack: 32° to 120°F (0° to 49°C)

Assembly

Part Number	Description	
RBE-LB	3M™ Tight Fitting Powered Air Purifying Respirator (PAPR) Assembly with 3M™ Battery Pack, Lithium (non-rechargeable) 520-04-57R01 and 3M™ Decon Belt RBE-BLT	Each Assembly Includes these Common Parts: <ul style="list-style-type: none"> • 3M™ Turbo PAPR Unit 022-00-03R01 • 3M™ Breathing Tube with Clamp RBE-BTB • 3M™ Canisters RBE-40 • 3M™ Airflow Indicator AFI-100 • 3M™ Duffle Bag RBE-DFL
RBE-LV	3M™ Tight Fitting Powered Air Purifying Respirator (PAPR) Assembly with 3M™ Battery Pack, Lithium (non-rechargeable) 520-04-57R01 and 3M™ Vest RBE-VST	
RBE-NMB	3M™ Tight Fitting Powered Air Purifying Respirator (PAPR) Assembly with 3M™ Battery Pack, NiMH (rechargeable) BP-15 and 3M™ Decon Belt RBE-BLT	
RBE-NMV	3M™ Tight Fitting Powered Air Purifying Respirator (PAPR) Assembly with 3M™ Battery Pack, NiMH (rechargeable) BP-15 and 3M™ Vest RBE-VST	

Facepieces

Part Number	Description
FR-7800B	3M™ Full Facepiece 1/Case
FR-M40B	3M™ Full Facepiece 1/Case

Components

Part Number	Description
BLT-100	3M™ Belt Buckle (replacement part for 3M™ Decon Belt RBE-BLT) 1/Case
RBE-BLT	3M™ Decon Belt 1/Case
BLT-110	3M™ Vest Buckle Kit (4 buckles per kit) 1/Case
RBE-40	3M™ Canister, Tight Fitting 6/Case
RBE-BTB	3M™ Breathing Tube, with Clamp 1/Case
RBE-DFL	3M™ Duffle Storage Bag 1/Case
RBE-VST	3M™ Vest (replacement part for vest-mounted RBE assemblies) 1/Case
BP-15	3M™ Battery Pack, NiMH (rechargeable) 1/Case
520-04-57R01	3M™ Battery Pack, Lithium (non-rechargeable) 1/Case
AFI-100	3M™ Airflow Indicator 1/Case

Optional Parts

Part Number	Description
RBE-CM7	3M™ Communication Device (for use with 3M™ Full Facepiece FR-7800B) 1/Case
RBE-CM4	3M™ Communication Device (for use with 3M™ Full Facepiece FR-M40B) 1/Case
BC-210	3M™ Smart Battery Charger (for use with 3M™ Battery Pack, NiMH (rechargeable) BP-15 1/Case
RBE-SC	3M™ Canister Shower Cover 2/Case
529-01-56R01	3M™ Battery Shower Cover 1/Case
RBE-TRN	3M™ Training Cartridge, Red 6/Case (Training cartridges are not NIOSH-approved and must not be used for respiratory protection)

For additional information please visit our websites:

- www.3M.com/PPESafety
- www.pandemicpreparation.com



General Offices
3M Center
 St. Paul, MN 55144-1000
www.3M.com

For More Information
 Sales Assistance: 1-800-328-1667
 Technical Assistance: 1-800-243-4630
 Website: www.3M.com/PPESafety

3M and Breathe Easy are trademarks of 3M.
 Please recycle. Printed in U.S.A.
 © 3M 2011. All rights reserved.
 70-0714-8795-6