

3M™ Air-Mate™ Vinyl Belt-Mounted High Efficiency (HE) Powered Air Purifying Respirator (PAPR) System, AMH-1U

Build the system that's right for you in just two easy steps.

3M™ Air-Mate™ Systems incorporate the blower, filter and battery into a compact and lightweight belt-mounted unit for respiratory protection against airborne particulates. These respirators are used extensively in hospitals and in public health applications by health care workers.

- Can be used with either lightweight head cover or hood* made of Tychem® QC. The head cover/hood gives the user a wide field of vision and directs positive airflow into the breathing zone.
- The breathing tube connects the blower unit to the head cover/hood.
- The blower unit is a belt-mounted, lightweight package that combines the filter, battery and motor. It moves air through the filter and breathing tube to the wearer's head cover/hood.
- Filters are NIOSH-approved High Efficiency (99.97% efficiency at 0.3 micron particle size).
- Can be worn with facial hair and glasses. Facial hair must not interfere with faceseal.
- No fit testing is required prior to wearing.
- Battery can be charged either within unit or externally. Up to eight hours of battery service per charge.
- Vinyl belt makes for easy decontamination and cleaning.

* For use up to 25 x PEL for head covers and 1000 x PEL for hoods or applicable OSHA or other government exposure limits, whichever is lower.



Step 1: Select a 3M™ Head Cover or Hood

Head Cover



OR



BE-12B-3 Blue, Reg (3/pk.)
BE-12B-50 Blue, Reg (50/pk)
BE-12LB-3 Blue, Lg (3/pk)
BE-12LB-50 Blue, Lg (50/pk)

BE-12-3 White, Reg (3/pk)
BE-12-50 White, Reg (50/pk)
BE-12L-3 White, Lg (3/pk)
BE-12L-50 White, Lg (50/pk)

Hood



BE-10-3 White, Reg (3/pk)
BE-10-20 White, Reg (20/pk)
BE-10L-3 White, Lg (3/pk)



Step 2: Pair with the 3M™ Air-Mate™ HE PAPR System AMH-1U

AMH-1U Includes:

- A) PAPR Unit (520-03-63R01)
- B) Battery Pack (007-00-15R01)
- C) HE Filter (451-02-01R01)
- D) Waist Belt, Vinyl (GVP-117)
- E) Airflow Indicator (021-14-00R01)
- F) Breathing Tube Assembly (BE-224)
- G) Breathing Tube Cover (W-3228-10)
- H) External Charge Adaptor (520-04-24)
- I) Smart Battery Charging Station (520-03-73)



Intended Uses

- When properly used in accordance with all instructions and OSHA respirator program requirements (1910.134), these respirators help reduce respiratory exposure to airborne particles such as dust, mist, and biological and radiological aerosols.
- Before use, the wearer must read and follow the *User Instructions*.

Steps

1. Inspect system.
2. Attach breathing tube to motor blow unit.
3. Turn unit on.
4. Check for airflow using the air flow indicator (bullet shaped component).
5. Push the slotted end of the breathing tube into the connector in the rear of the head cover or hood until it snaps into place.

6. Pull the head cover or hood over your head and adjust it so the headband wraps around your head.
 - For the head cover: pull the elasticized edge of the faceseal under your chin.
 - For the hood: tuck the inner shroud under your protective clothing and allow the outer shroud to hang outside your clothing.
- Refer to the *User Instructions* for complete details.

Specifications

Part Number	Description
Heat and flame resistance	Not designed for use in high temperature environments or exposure to sparks or flame
Battery pack	Rechargeable nickel cadmium — Up to 8 hours of use per charge
Airflow range	Greater than 6 scfm (170 lpm)
Weight of blower and battery pack	Approximately 1 kg (2.2 lbs.)
Head Cover/Hood material	Tychem® QC (latex free)
Faceseal	Clear acetate
Sizing for Head Covers/Hoods	Regular — head sizes 6 1/2 to 7 3/8 Large — head sizes 7 to 8

Components

Part Number	Description	
Head Covers	BE-12B-3	Head Cover, Blue, Regular (3/pack)
	BE-12B-50	Head Cover, Blue, Regular (50/pack)
	BE-12LB-3	Head Cover, Blue, Large (3/pack)
	BE-12LB-50	Head Cover, Blue, Large (50/pack)
	BE-12-3	Head Cover, White, Regular (3/pack)
	BE-12-50	Head Cover, White, Regular (50/pack)
	BE-12L-3	Head Cover, White, Large (3/pack)
	BE-12L-50	Head Cover, White, Large (50/pack)
Hoods	BE-10-3	Hood (3/pack)
	BE-10-20	Hood (20/pack)
	BE-10L-3	Hood, Large (3/pack)
231-01-30U	3M™ Air-Mate™ Vinyl Belt-Mounted High Efficiency PAPR Assembly (includes PAPR unit, battery pack, HE filter, vinyl belt and airflow indicator)	
AMH-1U	3M™ Air-Mate™ Vinyl Belt-Mounted High Efficiency PAPR System (includes PAPR unit, battery pack, HE filter, vinyl waist belt, airflow indicator, breathing tube assembly, breathing tube cover, external charge adaptor and charging station)	
021-14-00R01	Airflow Indicator	
007-00-15R01	Battery Pack	
GVP-117	Vinyl Waist Belt	
BE-224	Breathing Tube Assembly	
W-3228-10	Breathing Tube Cover (10/pack)	
520-04-24	External Charge Adaptor	
520-03-73	Charging Station, Single Unit	
451-02-01R01	HE Filter with Gasket	

Optional Parts

Part Number	Description
520-03-72	Charging Station, 5-Unit
520-01-61	Charging Station, 10-Unit
520-03-63R01	PAPR Unit (excludes battery pack, belt, HE filter and airflow indicator)

For More Information

Sales Assistance: 1-800-328-1667
 Technical Assistance: 1-800-243-4630
 Website: www.3M.com/OccSafety



WARNING!

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



General Offices

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