

3M Science.
Applied to Life.™

**3M™ Respiratory
Protection Solutions
for Healthcare Professionals**

#3MScienceOfSafety

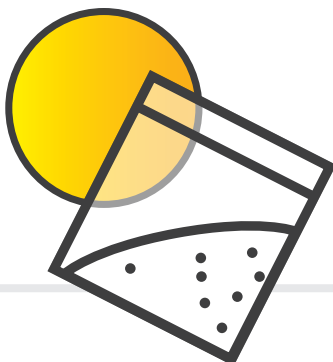
Does your work expose you to respiratory hazards?

3M Respiratory Protection Program Training and Support



Airborne/clinical isolation areas – management of patients with confirmed infection or emerging diseases

Health care workers are exposed to respiratory hazards in various forms, mainly airborne inhalation and droplets from an infected person. Diseases, which respect no national boundaries, can challenge efforts to protect workers as infection control recommendations may not be immediately available.



Handling and administration of hazardous drugs (USP 800)

Hazardous drugs can cause cancer, reproductive issues and damage to organs or DNA. Potential routes of exposure include absorption through the skin, inhalation of dust, aerosols or vapors, accidental injection and unintentional ingestion.

- ▶ Counting, crushing or breaking tablets
- ▶ Preparing, handling, administering and disposing of solutions
- ▶ Handling and disposing of drug administration equipment, contaminated waste, and patient body fluids, feces and urine
- ▶ Cleaning up spills and/or contaminated bodily fluids



Cleaning, disinfecting, drug neutralization chemical handling and use

Hospital Acquired Infections (HAI) are a concern for healthcare organizations and the emergence of anti-microbial resistant microorganisms has made this an even greater challenge. Peracetic Acid (PAA) based products have proven to be relatively effective, while at the same time there are existing and emerging concerns regarding the respiratory hazards of these products. PAA and bleach are also the most frequently used chemotherapy drug neutralizing agents as well. 3M has completed testing to ensure certain gas/vapor cartridges for both PAPRs and Reusable Respirators can help organizations meet the challenge posed by the increased use of these products in healthcare.

▶ Nurses ▶ Nurses' aides ▶ Physicians ▶ Surgeons ▶ Physical assistants ▶ Respiratory therapists ▶ Specialists

¹ <https://www.cdc.gov/niosh/docs/2015-117/pdfs/2015-117.pdf?id=10.26616/NIOSH PUB2015117>

Get the right protection for the job.

In a healthcare environment, personnel are exposed daily to a wide range of airborne hazards— and the right respirator can make all the difference. There are two main types of respirators available for use in healthcare settings: disposable surgical respirators (such as the 3M™ Healthcare Particulate Respirator and Surgical Mask 1860 and 1860S) and powered air purifying respirators (such as the 3M™ Versaflo™ Powered Air Purifying Respirator).

Learn the key differences between the two types below, so you can make a more informed decision about respiratory protection at your healthcare facility.



Disposable Respirators for Healthcare (N95)	Criteria	Powered Air Purifying Respirators (PAPR)
10 APF	OSHA Assigned Protection Factor (APF)	Up to 1,000 APF
No	Can it be shared, reused or cleaned for use	Yes, with certain components
Particulates only	Hazard type protection	Particulates, certain gases and vapors
Yes	Fluid resistant	Yes
Yes	Clean shave/fit test requirements	No*
Negative	Type of pressure	Positive
No	Requires batteries	Yes
Yes	Able to use with stethoscope	Yes, with certain headtops
No	Full head/neck protection	Yes, with certain headtops
No	Full face visible for patient comfort	Yes
No	Splash resistance for eyes	Yes

*When used with loose-fitting headgear like our S-Series hoods

3M™ Healthcare Particulate Respirators and Surgical Masks

N95 respirators are respiratory protective devices that when properly selected and used can provide a tight fit to create a seal between the face and respirator. Masks accommodate facial movements allowing user to talk while masked.

What you can count on with 3M disposable respirators for healthcare (N95):



Advanced Electrostatic Media allows greater air flow while capturing more contaminants.



Lightweight and comfortable.



Adjustable noseclips, conformable face seal and many strap/attachment options.

- ▶ NIOSH approved
- ▶ Fluid resistant
- ▶ FDA cleared



3M™ VFlex™ Healthcare Particulate Respirator and Surgical Mask 1804/1804S	3M™ Healthcare Particulate Respirator and Surgical Mask 1860, 1860S	3M™ Aura™ Healthcare Particulate Respirator and Surgical Mask 1870+
Flat fold design helps keep respirator away from your mouth	Collapse-resistant cup shape design	Flat fold design offers convenient storage and portability
Pleats flex with mouth movement	Braided head straps for comfort	Individual packaging helps protect respirator from contamination
Unique tabs for positioning on face	Cushioning nose foam	Soft nose foam and smooth inner materials
Available in two sizes	Available in two sizes	Embossed top panel helps reduce eyewear fogging

3M™ Powered Air Purifying Respirator (PAPR) Solutions for Healthcare

PAPRs are battery-operated, reusable systems that can cover the full face and neck. When used correctly, the HEPA filter can filter 99.97% of particles. They're typically used in clinical or airborne isolation areas, and can also be used to help protect against emerging diseases, or handling of hazardous drugs. USP 800 compliant when used with appropriate gas and vapor cartridges.



What you can count on with 3M™ Versaflo™ PAPR systems:



Easy to assemble, disassemble, and troubleshoot for maintenance and decontamination.



Lightweight and comfortable.



Low battery and low flow alarms.



Intuitive user interface. (Blue components represent user touch points.)



Lightweight soft hoods are designed to help reduce neck strain or fatigue by not wearing motor blower on head.



Feature	TR-300+	TR-600
HE Particulate Filter	Yes	
Gas and Vapor Cartridges	No	Yes
Battery Run Time	TR-300 Standard: 4-6 hrs* TR-332 High Capacity: 8-12 hrs*	TR-630 Standard: 7-10 hrs* TR-632 High Capacity: 10.5-19 hrs*
Battery Charge Time	TR-300 Standard: <3.0 hrs TR-332 High Capacity: <3.5 hrs	TR-630 Standard: <4 hrs TR-632 High Capacity: <4 hrs
Approximate Airflow (loose fitting)	Standard: 6.5 cfm (185 lpm) High: 7.2 cfm (205 lpm)	Standard: 6.7 cfm (190 lpm) Medium: 7.2 cfm (205 lpm) High: 7.8 cfm (220 lpm)
Cleaning (blower only)	Wipe down only	Wipe down, rinse or submerge with use of TR-653 Cleaning and Storage Kit
Ingress Protection	IP-53 Rating in use	IP-54 Rating in use IP-67 with cleaning and storage kit in place**
Blower Alarms	Visual/Audible	Visual/Audible/Vibratory
User Interface	Battery charge, filter loading and airflow status alarm	
Approximate Motor Blower Weight	TR-300+ motor/blower – no battery pack: ~0.85 lbs	TR-600 motor/blower – no battery pack: ~1.4 lbs
Approximate Battery Weight	TR-330 Standard: 0.5 lbs TR-332 High Capacity: 0.8 lbs	TR-630 Standard: 1 lb TR-632 High Capacity: 1.3 lbs

* Estimated system run time based on testing with a new battery and a new clean filter at 68°F (20°C). Actual system run time may be extended or shortened depending on system configuration and environment.

** Requires purchase of TR-653 Cleaning and Storage Kit

3M™ Versaflo™ PAPR TR-300+

The lightweight, low-profile 3M Versaflo PAPR TR-300+ provides reliable, comfortable, customizable protection in particulate environments – so you can keep working, even when the job gets tough.

3M™ Versaflo™ PAPR TR-300+ Kits:

TR-300-HKS/TR-300-HKL

The 3M™ Versaflo™ TR-300-HKS/HKL are complete, ready-to-use HE PAPR systems with a **small-to-medium S-133S** headcover (TR-300-HKS) or a **medium-to-large S-133L** headcover (TR-300-HKL).

Each kit also includes:

- ▶ **BT-30** Length Adjusting Breathing Tube
- ▶ **TR-991** Carrying Bag
- ▶ **TR-302N+** PAPR Unit
- ▶ **TR-327** Easy Clean Belt
- ▶ **TR-332** High Capacity Battery
- ▶ **BT-922** Breathing Tube Cover
- ▶ **TR-341N** Battery Charger Kit
- ▶ **TR-3712N HE** Filter
- ▶ **TR-3600** Prefilter
- ▶ **TR-971** Airflow Indicator

3M™ Versaflo™ PAPR Kit TR-300N+ HKL

See more with a wide field of vision, thanks to enhanced visor design.

Patients can see their provider's face.

Designed to be compatible with stethoscope use.

See more of your work world with this convenient, maintenance-free disposable headcover.

Our innovative Quick Release Swivel (QRS) connects quickly.



▶ For list of assemblies, please reference product list in back.

3M™ Versaflo™ PAPR TR-600

Get comfortable, cleanable protection engineered to work overtime. The user-friendly, ergonomically-designed 3M Versaflo PAPR TR-600 has two powerful battery options for longer run time and less downtime – so you have more time to dedicate to patients.

NOTE: Additional chemical cartridges for TR-600 available - see page 10 for options

3M™ Versaflo™ PAPR Kit TR-600 HKL

Option to use cartridges (not shown) to protect against certain gases and vapors for USP 800 compliance.

See more of your work world with this convenient, maintenance-free disposable headcover.

3M™ Versaflo™ PAPR TR-600 Kits:

TR-600-HKS/TR-600-HKL

The 3M™ Versaflo™ TR-600-HKS/HKL are complete, ready-to-use HE PAPR systems with a **small-to-medium S-133S** headcover (TR-600-HKS) or a **medium-to-large S-133L** headcover (TR-600-HKL).

TR-614-HK

The 3M™ Versaflo™ TR-614-HK is a complete, ready-to-use HE PAPR system **AND** you get to **choose your own** headcover.

TR-600-ECK

The 3M™ Versaflo™ TR-600-ECK is a complete, ready-to-use HE PAPR system with a **S-433 Hood Assembly** and does **NOT** come with a bag.

Each kit also includes:

- ▶ **BT-30** Length Adjusting Breathing Tube
- ▶ **TR-991** Carrying Bag (n/a for TR-600-ECK)
- ▶ **TR-602N** PAPR Unit
- ▶ **TR-627** Easy Clean Belt
- ▶ **TR-630** Standard Battery
- ▶ **TR-641N** Single Station Battery Charger
- ▶ **BT-922** Breathing Tube Cover
- ▶ **TR-6710N** Filter
- ▶ **TR-6700FC** Filter Cover
- ▶ **TR-971** Airflow Indicator
- ▶ **TR-653** Cleaning and Storage Kit



▶ For list of assemblies, please reference product list in back.

3M™ Versaflo™ PAPR System Components

Hard work. Soft hoods and headcovers.

Continuous airflow helps improve comfort – excellent for long periods of work.

For immediate readiness choose ready-to-use integrated suspension models. For quick, cost-effective replacement of outer fabrics, select premium reusable suspension models.

Feel safe knowing that the high-performing S-Series headcovers have an APF of 25 and hoods have an APF of 1000 when used as part of a NIOSH-approved powered air respiratory system.

Designed to comfortably fit a wide variety of head sizes, the S-Series suspensions comfortably fit wearers.

S-Series visors have a wide field of view.

For the work you do, versatility is key – and S-Series hoods can be used in several different powered air purifying respirator combinations.



S-Series Hoods and Headcovers

- ▶ Suitable for applications where frequent replacement of the head gear assembly may be required.
- ▶ Integrated suspension is ready-to-use.
- ▶ Available in two sizes: S/M and M/L.
- ▶ Hoods provide increased skin coverage.
- ▶ Premium reusable suspension hoods can be a cost-effective choice for some high disposal rate environments – just the soiled hood fabric is replaced, while the suspension can be reused.
- ▶ The S-855 and S-857 are made with Kappler® Zytron® 200, a polypropylene fabric with a multi-layer barrier film. Features sealed seams, making it suitable for environments where certain liquid splash hazards may be present.
- ▶ Compatible with both TR-300+ and TR-600 PAPR systems.



Premium
Head
Suspension



**3M™ Versaflo™
Headcover S-133**

Head and face coverage. Integrated comfort suspension. General purpose fabric.



**3M™ Versaflo™
Headcover S-433**

Head, face, neck and shoulder coverage. Integrated suspension.



**3M™ Versaflo™
Economy Hood S-403**

Head, face, neck, and shoulder coverage. Fabric suspension, inner shroud.



**3M™ Versaflo™
Hood S-857**

Head, face, neck, and shoulder coverage. Comfort suspension. Sealed seam inner shroud. Durable, soft, quiet, low-linting fabric that drapes more comfortably over the wearer.

▶ For list of headgear, please reference product list in back.

TR-600

Item Description	Catalog No.	3M ID No.	UPC No.
3M™ Versaflo™ Powered Air Purifying Respirator Kits and Assemblies, TR-600			
TR-600-ECK, S433/BT30/TR614 PAPR Kit, 1/case	TR-600-ECK	7100035754	05113137375
TR-600-HKS Versaflo PAPR Kit, 1/case	TR-600-HKS	7100100424	05113127499
TR-600-HKL Versaflo PAPR Kit, 1/case	TR-600-HKL	7100098538	05113127501
TR-614-HK Versaflo PAPR Kit, 1/case	TR-614-HK	7100098537	05113127502
TR-614N Assembly, Std Battery, EC Belt, 1/case	TR-614N	7100035758	05113137340
TR-617N Assembly, HC Battery, EC Belt, 1/case	TR-617N	7100035830	05113137342
3M™ Versaflo™ TR-600 Prefilter/Filter/Chemical Cartridge Options			
TR-6600 Prefilter, 50/case	TR-6600	7100021255	05113137354
TR-6710N-5 HE Filter, 5/case	TR-6710N-5	7100028247	05113137357
TR-6710N-40 HE Filter, 40/case	TR-6710N-40	7100019288	05113137358
TR-6820N HE/HF Cartridge, 5/case	TR-6820N	7100021092	05113137360
TR-6320N AG/HE Cartridge, 5/case	TR-6320N	7100021254	05113137363
TR-6360N AM/ME/HE Cartridge, 5/case	TR-6360N	7100027408	05113137364
TR-6350N FO/HE Cartridge, 5/case	TR-6350N	7100027551	05113137365
TR-6510N OV/HE Cartridge, 5/case	TR-6510N	7100021253	05113137361
TR-6530N OV/AG/HE Cartridge, 5/case	TR-6530N	7100021007	05113137362
TR-6590N Multi-Gas/HE Cartridge, 5/case	TR-6590N	7100035844	05113137366
3M™ Versaflo™ TR-600 Filter Covers			
TR-6700FC Filter Cover, 1/case	TR-6700FC	7100021251	05113137356
TR-6800FC Filter Cover, 1/case	TR-6800FC	7100021247	05113137378
TR-6300FC Filter Cover, 1/case	TR-6300FC	7100021336	05113137380
TR-6500FC Filter Cover, 1/case	TR-6500FC	7100021252	05113137381
3M™ Versaflo™ TR-600 Battery			
TR-630 Standard Battery, 1/case	TR-630	7100035835	05113137347
TR-632 High Capacity Battery, 1/case	TR-632	7100035836	05113137348
3M™ Versaflo™ TR-600 Battery Charger			
TR-944N 4-Station Power Supply, 1/case	TR-944N	7000127715	05113117375
TR-641N Standard Battery Charger, 1/case	TR-641N	7100035838	05113137350
TR-644N 4-Station Battery Charger, 1/case	TR-644N	7100035839	05113137351
3M™ Versaflo™ TR-600 Belt & Extenders			
TR-627 Easy Clean Belt, 1/case	TR-627	7100035833	05113137345
TR-627X Belt Extender, 1/case	TR-627X	7100035834	05113137346
3M™ Versaflo™ TR-600 Accessories			
BPK-01 Backpack, 1/case	BPK-01	7000052901	05113117358
TR-655 Backpack Adapter Plate, 1/case	TR-655	7100035843	05113137385
TR-653 TR-600 Cleaning and Storage Plugs, 1/case	TR-653	7100035841	05113137373

TR-300+

Item Description	Catalog No.	3M ID No.	UPC No.
3M™ Versaflo™ Powered Air Purifying Respirator Kits & Assemblies, TR-300			
Healthcare PAPR Kit TR-300N+ HKS, Small - Medium, 1/case	TR-300N+HKS	7100153808	07630894270
Healthcare PAPR Kit TR-300N+ HKL, Medium - Large, 1/case	TR-300N+ HKL	7100153841	07630894271
TR-304N+ Assembly, with Easy Clean Belt and Economy Battery, 1/case	TR-304N+	7100153811	07630894265
TR-307N+ Assembly, with Easy Clean Belt and High Capacity Battery, 1/case	TR-307N+	7100153810	07630894264
TR-300+ Prefilter/Filter			
TR-3600 Prefilter, 100/case	TR-3600	7000127713	05113117369
TR-3712N-5 Filter for TR-300 PAPR, 5/case	TR-3712N-5	7100018971	05114156313
TR-3712N-40 Filter for TR-300 PAPR, 40/case	TR-3712N-40	7100019023	05113818957
3M™ Versaflo™ TR-300+ Filter Cover			
TR-300N+ Series PAPR Filter Cover TR-371+, 1/case	TR-371+	7100156020	05113127704

TR-300+ continues >>>



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3M PSD products are for occupational use only.

	WARNING
<p>These respirators help reduce exposures to certain airborne particulates. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in injury, illness or death. For correct use, consult supervisor and User Instructions, or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.</p>	

For More Information

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