

3M™ Versaflo™ TR-300+, TR-600 and TR-800 and 3M™ Speedglas™ Adflo™ Powered Air Purifying Respirators - NIOSH

Comparison Chart

Refer to the User Instructions and/or the NIOSH approval label provided with the respirator for a listing of components and optional accessories that can be used to assemble a complete NIOSH approved respirator system or contact 3M.

System	3M™ Versaflo™ TR-300+ PAPR	3M™ Versaflo™ TR-600 PAPR	3M™ Versaflo™ TR-800 PAPR	3M™ Adflo™ PAPR
Image				
Blower part no.	TR-302N+	TR-602N	TR-802N	35-1099-01
NIOSH Approved configurations	Yes	Yes	Yes	Yes
HE Filter	TR-3712N	TR-6710N	TR-6710N	15-0299-99
Pre-Filter	TR-3600	TR-6600	TR-6600	15-0099-99
Spark Arrestor	TR-362	TR-662	TR-662	15-0009-99
Gas and Vapor Cartridges	No	Several options ⁷	Several options ⁷	15-0499-99 ⁷
Nuisance Odor ⁸	No	No	No	35-0699-99
Battery Run Time ¹ (~ hours)	TR-332: 8-12	TR-630: 4 - 13	TR-830: 4 - 8	With HE: 10-12
		TR-632: 8 - 19		With Cartridge: 5.5
Battery Charge Time (~ hours)	<3.5	< 3.5 hrs (TR-630) <4.5 hrs (TR-632)	<4	80% in 3 100% in 6.5
Chargers	TR-342N Single	TR-642N Single	TR-642N Single	35-0099-08 Single
	Multi-charger configurations available. Contact 3M for additional details.	Multi-charger configurations available. Contact 3M for additional details.	Multi-charger configurations available. Contact 3M for additional details.	35-0099-08N6 6-Unit Stand (must be used with 6 x single chargers)
Approximate Airflow (Loose Fitting)	Std: 6.5 cfm (185 lpm) Hi: 7.2 cfm (205 lpm)	Std: 6.7cfm (190 lpm) Med: 7.2 cfm (205 lpm) High: 7.8 cfm (220 lpm)	Std: 6.7cfm (190 lpm) Med: 7.2 cfm (205 lpm) High: 7.8 cfm (220 lpm)	7.2 cfm (205 lpm)

Approximate Airflow (Tight Fitting)	NA	Std: 4.8 cfm (135 lpm) Med: 5.3 cfm (150 lpm) High: 6.0 cfm (170 lpm)	Std: 4.8 cfm (135 lpm) Med: 5.3 cfm (150 lpm) High: 6.0 cfm (170 lpm)	NA
Cleaning (blower only)	Wipe down only ^a	Wipe down, or rinse or submerge with use of TR-653 Cleaning and Storage Kit ^a	Wipe down, or rinse or submerge with use of TR-653 Cleaning and Storage Kit ^b	Wipe down only
Ingress Protection	IP-53 Rating in use ²	IP-54 Rating in use ³ IP-67 with cleaning and storage kit in place ⁹	IP-54 Rating in use ³ IP-67 with cleaning and storage kit in place ⁹	NA
Elevation Limits	-610 m to 4300 m (-2000 ft to 114107 ft)	-610 m to 5000 m (-2000 ft to 16404 ft)	-610 m to 5000 m (-2000 ft to 16404 ft)	HE: 0 to 3000 m (0 – 9843 ft)
				HE+ Nuis. Pad or Cartridge: 0 to 1500 m (0 to 4921 ft)
Belt and Backpack Options	TR-325 Standard Belt (Polyester) TR-326 High Durability (Leather) TR-327 Easy Clean (Polyurethane Coated Polyethylene Webbing) BPK-HD Backpack TR-927 Easy Clean Backpack	TR-626 High Durability Belt (Leather) TR-626X Extender TR-627 Easy Clean Belt (Urethane) TR-627X Extender TR-325/326/327 Belts (require TR-655 adaptor) BPK-HD Backpack TR-927 Easy Clean Backpack	TR-626 High Durability Belt (Leather) TR-626X Extender TR-627 Easy Clean Belt (Urethane) TR-627X Extender TR-325/326/327 Belts (requires TR-655 adaptor) BPK-HD Backpack TR-927 Easy Clean Backpack	15-0099-16 Leather Belt 18-0099-16 Comfort Belt 35-0099-14 Quick Connect TR-325 Standard TR-326 High Durability TR-327 Easy Clean BPK-HD Backpack 15-0099-17 suspenders
Blower Alarms	Low airflow alarm Low battery alarm	Low airflow alarm Low battery alarm	Low airflow alarm Low battery alarm	Low airflow alarm Low battery alarm
Alarm Modes	Visual/Audible	Visual/Audible/Vibratory	Visual/Audible	Visual/Audible
User Interface	Battery charge, filter loading and airflow setting	Battery charge, filter loading and airflow setting	Battery charge, filter loading and airflow setting	Battery charge, filter loading
Battery Cycles	Approx. 500 ¹⁰	Approx. 500 ¹⁰	Approx. 750 ¹⁰	Approx. 500 – Full charge/ discharge cycles
Battery Type	Lithium Ion	Lithium Ion	Lithium Ion	Lithium Ion
Headtops	M-Series, S-Series, H-Series, 9100 Series, G5-01, G5-03 Pro Air	M-Series, S-Series, H-Series, 9100 Series, G5-01, G5-03 Pro Air, Tight-Fitting (bayonet style)	M-Series, S-Series, H-Series, Tight-Fitting (bayonet style)	M-Series, 9100 Series, G5-01, G5-03 Pro Air

Breathing Tubes (Loose Fitting)	BT-20S, BT-20L, BT-30, BT-40, SG-30W, SG-30WL, SG-40W, SG-50W	BT-20S, BT-20L, BT-30, BT-40, SG-30W, SG-30WL, SG-40W, SG-50W	BT-20S, BT-20L, BT-30, BT-40	SG-30W, SG-30WL, SG-40W, SG-50W
Breathing Tubes (Tight Fitting)	NA	BT-63 BT-64	BT-63 BT-64	NA
Approximate Blower Weight without battery	0.85 lbs	1.4 lbs	1.5 lbs	1.1lbs
Approximate Battery Weight (lbs)	0.8 lbs	TR-630: 1 lbs	1.5 lbs	0.98 lbs
		TR-632: 1.3 lbs		
Approximate Blower Dimensions with HE filter and cover	8" w x 7" h x 3" d	10" w x 8" h x 3" d	10" w x 8" h x 3" d	9" w x 7" h x 3" d
Shelf Life	Blower: 5 years ⁶	Blower: 5 years ⁶	Blower: 5 years ⁶	Blower: 5 years
	Battery: 1 year ⁴	Battery: 1 year ⁴	Battery: 6 months ⁴	Battery: NA ⁵
	HE Filter: 5 years	HE Filter: 5 years	HE Filter: 5 years	HE Filter: 5 years
Intrinsically Safe	No	No	Yes - Blower with battery certified to UL/IEC 60079 (2013)	No

- 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.
- Suitable for use in a decontamination shower with a spray angle of up to 60 degrees from vertical
- The IP54 rating indicates the unit is protected against infiltration of dusts and water splash that would interfere with normal operation
- Battery packs should be charged immediately and fully upon receipt. The battery should be recharged after each use and at least every 9 - 12 months, every 6 months for TR-830
- Battery packs should be charged immediately and fully upon receipt. The battery should be recharged after each use and at least every 3 months
- The motor must be run for at least 5 minutes annually to ensure proper lubrication and operation
- [Cartridge and Filter Summary for Certain 3M Respirators: https://multi-media.3m.com/mws/media/2286838O/cartridge-and-filter-summary-for-certain-3m-respirators.pdf](https://multi-media.3m.com/mws/media/2286838O/cartridge-and-filter-summary-for-certain-3m-respirators.pdf)
- Nuisance level refers to concentrations not exceeding OSHA Permissible Exposure Limit (PEL) or applicable government occupational exposure limits, whichever is lower.
- The IP67 rating indicates the unit is protected against infiltration of dusts and can now be rinsed under running water, immersed, or put in a respirator washer for further cleaning as long as the 3M™ Cleaning and Storage Kit TR-653 inlet and outlet plugs are installed.
- 3M™ Versaflo™ Battery Packs can provide approximately 500 or 750 full charge/discharge cycle equivalents while maintaining 80% of its original capacity, when used under recommended conditions and during its first year of service. 1 cycle = discharge of 90% of battery pack capacity. Partial cycles are counted and added up until 90% is reached. For example: User runs battery pack for 2 hours and depletes it 20% of capacity. User does this for 4 more days, recharging the battery pack at the end of each day (total of 5 days use). 1 cycle has occurred at the end of the 5th day. (20% discharge/day) X (5 days use) = greater than 90% discharge. The battery will register 1 charge/discharge cycle after 5 days.
 - <https://multimedia.3m.com/mws/media/1758484O/inspection-cleaning-storage-procedures-for-3m-versaflo-tr300-tr300-tr600-technical-bulletin>
 - <https://multimedia.3m.com/mws/media/1559551O/inspection-cleaning-and-storage-procedures-for-3m-versaflo-tr-800-papr-assemblies-tech-bulletin.pdf>

11. User Instructions

- a. <https://multimedia.3m.com/mws/media/1490017O/3m-versaflo-powered-air-purifying-respirator-papr-assembly-user-instructions.pdf>
- b. <https://multimedia.3m.com/mws/media/1427970O/3m-versaflo-papr-assembly-tr-600-series-user-instructions.pdf>
- c. <https://multimedia.3m.com/mws/media/1458326O/3m-versaflo-powered-air-purifying-respirator-assembly-tr-800-series-user-instruction.pdf>
- d. <https://multimedia.3m.com/mws/media/2491360O/user-instructions-for-3m-versaflo-single-station-battery-charger-kit-tr-342.pdf>
- e. <https://multimedia.3m.com/mws/media/2491361O/user-instructions-for-3m-versaflo-single-station-battery-charger-kit-tr-642.pdf>

WARNING



Respirators help reduce exposures to certain airborne contaminants. Before use, the wearer must read and understand the *User Instructions* provided as a part of the product packaging. Follow all local regulations. In the U.S., a written respiratory protection program must be implemented meeting all the requirements of OSHA 29 CFR 1910.134, including training, fit testing and medical evaluation. In Canada, CSA standard Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. **Misuse may result in sickness or death.** For correct use, consult supervisor and the *User Instructions*, or call 3M Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

For More Information

In U.S.

Technical Service 1-800-243-4630

Customer Care Center 1-800-328-1667

Internet 3M.com/Workersafety

3M.com/Versaflo

In Canada

Technical Service 1-800-267-4414

Customer Care 1-800-364-3577

Internet 3M.ca/safety



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3M PSD products are
occupational use only.

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In United States of America

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Customer Service 1-800-328-1667
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In Canada

Technical Service 1-800-267-4414
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3M.ca/Safety

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