

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 ⁹	No	TR-6820N	TR-6820N	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-341N Single	TR-641N Single	TR-641N Single	35-0099-08 Single
	TR-344N 4-Unit	TR-644N 4-Unit	TR-644N 4-Unit	35-0099-08N6 6-Unit Stand (must be used with 6 x single chargers)

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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	Wipe down, or rinse or submerge with use of TR-653 Cleaning & Storage Kit	Wipe down, or rinse or submerge with use of TR-653 Cleaning & Storage Kit	Wipe down only
Ingress Protection	IP-53 Rating in use ²	IP-54 Rating in use ³ IP-67 with cleaning & storage kit in place ¹⁰	IP-54 Rating in use ³ IP-67 with cleaning & storage kit in place ¹⁰	NA
Elevation Limits	-610 m to 5000 m (-2000 ft to 16404 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 TR-326 High Durability TR-327 Easy Clean BPK-HD Backpack TR-927 Backpack TR-329 Suspenders BPK-01	TR-626 High Durability TR-627 Easy Clean TR-325/326/327* BPK-HD Backpack TR-927 Backpack TR-329 Suspenders* TR-626X Extender TR-627 Extender BPK-01* *Requires TR-655 Adapter	TR-626 High Durability TR-627 Easy Clean TR-325/326/327* BPK-HD Backpack TR-927 Backpack TR-329 Suspenders* TR-626X Extender TR-627 Extender BPK-01* *Requires TR-655 Adapter	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	Visual/Audible	Visual/Audible/Vibratory	Visual/Audible	Visual/Audible
User Interface	Battery charge, filter loading and airflow status alarm	Battery charge, filter loading and airflow status alarm	Battery charge, filter loading and airflow status alarm	Battery charge and filter loading alarm

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Battery Cycles	Approx. 250 ⁸ – Full charge/ discharge cycles equivalents until 80% of the original capacity over the course of the first year of service when used under recommended conditions	Approx. 500 ⁸ – Full charge/ discharge cycles equivalents until 80% of the original capacity over the course of the first year of service when used under recommended conditions	Approx. 750 ⁸ – Full charge/ discharge cycles equivalents until 80% of the original capacity over the course of the first year of service when used under recommended conditions	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	M-Series, S-Series, H-Series, 9100 Series, G5-01, Tight-Fitting (bayonet style)	M-Series, S-Series, H-Series, Tight-Fitting (bayonet style)	M-Series, 9100 Series, G5-01
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 TR-632: 1.3 lbs	1.5 lbs	0.98 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 Battery: 1 year ⁴ HE Filter: 5 years	Blower: 5 years ⁶ Battery: 1 year ⁴ HE Filter: 5 years	Blower: 5 years ⁶ Battery: 6 months ⁴ HE Filter: 5 years	Blower: 5 years Battery: NA ⁵ HE Filter: 5 years
Intrinsically Safe	No	No	Yes - Blower with battery certified to UL/IEC 60079 (2013)	No

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<p>User Instructions</p>	<p>https://multimedia.3m.com/mws/media/1490017O/3m-versaflo-powered-air-purifying-respirator-papr-assembly-user-instructions.pdf</p> <p>https://multimedia.3m.com/mws/media/1276771O/3m-versaflo-chargers-and-battery-packs-for-the-papr-tr-300-tr-300-assemblies-user-instructions.pdf</p>	<p>https://multimedia.3m.com/mws/media/1427970O/3m-versaflo-papr-tr-600-series-user-instructions.pdf</p> <p>https://multimedia.3m.com/mws/media/1082570O/3m-versaflo-chargers-and-battery-packs-for-papr-tr-600-assemblies-user-instructions.pdf</p>	<p>https://multimedia.3m.com/mws/media/1458326O/3m-versaflo-powered-air-purifying-respirator-assembly-tr-800-series-user-instruction.pdf</p> <p>https://multimedia.3m.com/mws/media/1464281O/3m-versaflo-tr-830-battery-pack-used-with-tr-641n-tr-644n-battery-chargers-user-instruction.pdf</p>	<p>https://multimedia.3m.com/mws/media/1173591O/3m-adflo-welding-papr-assembly-user-instruction.pdf</p> <p>https://multimedia.3m.com/mws/media/1843087O/3m-adflo-papr-battery-smart-charger-for-lithium-ion-battery-and-3m-battery-pack-lithium-ion-ui.pdf</p>
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- 1) 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.
- 2) Suitable for use in a decontamination shower with a spray angle of up to 60 degrees from vertical
- 3) The IP54 rating indicates the unit is protected against infiltration of dusts and water splash that would interfere with normal operation
- 4) 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
- 5) Battery packs should be charged immediately and fully upon receipt. The battery should be recharged after each use and at least every 3 months
- 6) The motor must be run for at least 5 minutes annually to ensure proper lubrication and operation
- 7) Cartridge and Filter Summary for Certain 3M Respirators: <https://multimedia.3m.com/mws/media/2286838O/cartridge-and-filter-summary-for-certain-3m-respirators.pdf>
- 8) Battery Maintenance for 3MTM Versaflo™ TR-300 and TR-600 PAPR: <https://multimedia.3m.com/mws/media/1000747O/battery-maintenance-for-3m-versaflo-respirator-system-technical-bulletin.pdf>
- 9) Nuisance level refers to concentrations not exceeding OSHA Permissible Exposure Limit (PEL) or applicable government occupational exposure limits, whichever is lower.
- 10) 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.

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



WARNING

These respirators help protect against certain airborne contaminants. 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 sickness 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.



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In Canada
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3M.ca/Safety

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