

3MTM VersafloTM TR-300 Powered Air Purifying Respirator (PAPR) Assemblies

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Replaces all previously published technical specifications until superseded.

Attribute	Technical Specification
Airflow	Greater than 6 CFM (170 Lpm)
	(Nominal 6.7 CFM, 190 Lpm)
Alarms – Motor/Blower	
Low airflow (fan icon)	Audible and Visual.
	 Activates when airflow falls below 6 CFM (170 Lpm) for greater than approximately 30 seconds.
	• If alarm condition continues for approximately 15 minutes, the TR-300 system will automatically shut down.
 Low battery voltage (battery icon) 	Audible and Visual.
	 Activates when approximately 10 - 15 minutes of power left.
	 Activates when internal battery pack temperature reaches 130° F (55° C).
	 Activates when battery is not recognized by the turbo.
 System alarm (all icons) 	Audible and Visual.
	 Activates when system software
	malfunctions.
	 Activates when motor/fan is not turning.
 Alarm decibel level 	85 dBA at 4 inches (10 cm)
Operating Altitude Range	Approximately sea level to 2600 feet (800 meters). For use in elevations above 2600 feet contact 3M Technical Service.
Assigned Protection Factors (APF)	Depends on headgear selected. Consult selected headgear <i>User Instructions</i> or contact 3M Technical Service.
Belts	 TR-325 – Standard – Polyester ~62 in (157 cm). TR-326 – High Durability – Leather ~52 in (132 cm). TR-327 - Easy Clean – Polyurethane Coated Polyethylene Webbing ~62 in (157 cm).

Belts, Continued All belts can be interconnected for expanded size range. Belt extender (15-0099-06 Leather bel extender ~36 in (91 cm)) available for	
expanded size range. • Belt extender (15-0099-06 Leather bel	
■ Belt extender (15-0099-06 Leather bel	
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extender ~30 in (91 cm)) available for	
TR-326 belt.	
Breathing Tubes – Length	
■ BT-20S ■ ~28 in (71 cm)	
■ BT-20L ■ ~38 in (96 cm)	
■ BT-30 ■ ~26 in (66 cm) "relaxed length"; ~33.5	in
(85 cm) "fully extended"	
■ BT-40 ■ ~33 in (84 cm)	
Decontamination ■ Do not submerge motor/blower or batt	ery
pack.	
 Ingress Protection (IP) rating of IP-53 	(EN
60529). Suitable for use in a	
decontamination shower with a spray a	ingle
of up to 60 degrees from vertical.	
Dimensions − Motor/blower	185
mm)	
Weight ~2.0 lbs (918 g) with TR-330 econom	У
(includes TR301N blower unit, TR-370 cover, TR-battery	
3710N filter, TR-325 belt, and specified battery) - ~2.4 lbs (1077 g) with TR-332 high	
capacity battery	
Filter Options • High Efficiency (HE) filter	
• Prefilter ²	
Prefilter/Spark Arrestor ² - Prefilter/Spark Arrestor ²	
Intrinsic Safety TR-300 Assemblies and chargers are not	
Latex intrinsically safe TR-300 Assemblies do not contain latex	
Materials TR-500 Assemblies do not contain latex	
 PAPR main body ABS plastic 	
 Filter cover ABS plastic ABS plastic; thermal plastic (window) 	
Noise Levels Less than 80 dBA excluding external noise	
Temperature Limits – TR-300 Assembly	
 Operating 23° F to 129° F (-5° to 54° C) 	
■ Storage ■ -22° F to 122° F (-30° to 50° C); Opting	าลใ
40° to 95° (4° C to 35° C), Spins	iai
Service Life – Motor/blower Approximately 5000 hours (estimated depending	nσ
on use conditions). If motor blower will not be	_
used on a regular basis, the motor must be run	
minutes annually to ensure proper lubrication a	
operation.	
Shelf Life – Stored in original 3M packaging From date of manufacturer: approximately	
Shelf Life – Stored in original 3M packaging Motor/blower From date of manufacturer: approximately 5 years	
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Motor/blower5 years	
 Motor/blower Battery packs 5 years 9 months 	
 Motor/blower Battery packs High Efficiency (HE) filters 5 years 9 months 5 years 	
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 Motor/blower Battery packs High Efficiency (HE) filters S years Battery Pack Chemistry Lithium ion 	

Attribute	Technical Specification
Battery Pack, Continued	- O (1500 F (150 C)
 Storage temperature Continuous time on charger 	 Optimal 59° F (15° C). Battery pack may be stored on the charger between uses. For storage longer than 1 month, to maximize battery pack life, 3M recommends storing the battery pack off the charger at approximately 40% charge.
 Weight – TR-330 Economy Weight – TR-332 High Capacity 	0.5 lbs. (220 grams)0.84 lbs. (380 grams)
 Run time – TR-330 Economy Run time – TR-332 High Capacity 	Approximately 4-6 hours* Approximately 8-12 hours* * Estimated system run time based on testing with a new battery and filter at 68° F (20° C). Actual system run time may be extended or shortened depending on system configuration and environment
	Consult with a transportation specialist regarding transport of lithium ion battery packs
Chargers TR-340 Cradle	
InputOutputTR-944N	 100-240 VAC; 50-60 Hz; 1.5A 19 VDC; 2.37A
InputOutput	■ 100-240 VAC; 50-60 Hz; 2A ■ 19 VDC; 7.89A
■ Fuse rating	• 250 V; 15 A
Time to battery pack 100% capacity	TR-330 < 3 hours; TR-332 < 3.5 hours

Footnotes

- 1. Nuisance Level nuisance level organic vapor refers to concentrations not exceeding OSHA PEL or applicable government occupational exposure limits, whichever is lower.
- 2. Check NIOSH approval label to determine if the prefilter or spark arrestor is approved for use with your particular system or contact 3M Technical Service at 800-243-4630 (USA) or 800-267-4414 (Canada) for assistance.

/!\ WARNING

These respirators help reduce exposure to certain airborne contaminants. Use of 3MTM Powered and Supplied Air Respirators by untrained or unqualified persons, or use not in accordance with the instructions, **may adversely affect product performance and result in sickness or death.** Powered and supplied air respirators are to be used only by qualified persons who are properly trained in their use and maintenance and only in accordance with their operating and maintenance manuals. Each person using these products must first read and understand the operator's manual. See supervisor for assistance or call 3M OH&ESD Technical Service in U.S.A. at 1-800-243-4630. In Canada call 1-800-267-4414.

For More Information:

In US:

Website: www.3M.com/occsafety
Technical Service: 1-800-243-4630

In Canada:

Website: www.3M.com/CA/occsafety Technical Service: 1-800-267-4414 Versaflo and 3M are trademarks of 3M Company, used under license in Canada.

3M Occupational Health and Environmental Safety Division

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