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3M Technical H&ESD Specifications

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

Published: December 2011

Replaces all previously published technical specifications until superseded.

Rev: 1

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 User Instructions or contact 3M
D 14	Technical Service.
Belts	 TR-325 – Standard – Polyester ~62 in (157
	cm). TR-326 – High Durability – Leather ~52 in
	 TR-326 – High Durability – Leather ~52 in (132 cm).
	 TR-327 - Easy Clean – Polyurethane Coated Polyethylene Webbing ~62 in (157
	coated Polyethylene webbing ~62 in (157 cm).
	CIII).

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Attribute	Technical Specification
Belts, Continued	 All belts can be interconnected for
	expanded size range.
	 Belt extender (15-0099-06 Leather belt
	extender ~36 in (91 cm)) available for the
	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 battery
	pack.
	 Ingress Protection (IP) rating of IP-53 (EN
	60529). Suitable for use in a
	decontamination shower with a spray angle
	of up to 60 degrees from vertical.
Dimensions – Motor/blower	~7 7/8 X 8 1/4 X 3 3/8 in (197 X 210 X 185
	mm)
Weight	 ~2.0 lbs (918 g) with TR-330 economy
(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 Arrestor²
Intrinsic Safety	TR-300 Assemblies and chargers are not
▼ /	intrinsically safe
Latex	TR-300 Assemblies do not contain latex
Materials	
PAPR main body	ABS plastic ADS plastic (gin large)
• Filter cover	• ABS plastic; thermal plastic (window)
Noise Levels	Less than 80 dBA excluding external noise
Temperature Limits – TR-300 Assembly	- 229 E to 1209 E (59 to 549 C)
 Operating 	■ 23° F to 129° F (-5° to 54° C)
 Storage 	-22° F to 122° F (-30° to 50 ° C); Optimal
	40° to 95° (4° C to 35° C)
Service Life – Motor/blower	Approximately 5000 hours (estimated depending
	on use conditions). If motor blower will not be
	used on a regular basis, the motor must be run for 5
	minutes annually to ensure proper lubrication and
	operation.
Shelf Life – Stored in original 3M packaging	From date of manufacturer: approximately
 Motor/blower Battern pages 	• 5 years
 Battery packs Uish Efficiency (UE) filtery 	9 months
High Efficiency (HE) filters	• 5 years
Battery Pack	- T'41' '
Chemistry	Lithium ion
 Service life 	 250 charge cycles. Consider replacing
	battery pack when capacity diminishes to
	80% or less.

Attribute	Technical Specification
Battery Pack, Continued Storage temperature 	 Optimal 59° F (15° C).
 Continuous time on charger 	 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-222 Web Consulta 	• 0.5 lbs. (220 grams)
 Weight – TR-332 High Capacity 	• 0.84 lbs. (380 grams)
 Run time – TR-330 Economy 	 Approximately 4-6 hours*
 Run time – TR-332 High Capacity 	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	• 100-240 VAC; 50-60 Hz; 1.5A
InputOutput	 100-240 VAC, 50-00 HZ, 1.5A 19 VDC; 2.37A
TR-944N	
 Input 	 100-240 VAC; 50-60 Hz; 2A
Output	 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: <u>www.3M.com/occsafety</u> Technical Service: 1-800-243-4630 In Canada: Website: <u>www.3M.com/CA/occsafety</u> Technical Service: 1-800-267-4414 Versaflo and 3M are trademarks of 3M Company, used under license in Canada.

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