

3M™ Versaflo™ TR-300+ Powered Air Purifying Respirator (PAPR) Assemblies

Specifications

Attribute	Technical Specification
Airflow	Standard: 6.5 cfm (185 Lpm) High: 7.2 cfm (205 Lpm)
Alarms – Motor/Blower	
Low airflow (fan icon)	Audible and Visual. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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. <ul style="list-style-type: none"> • 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	-100 meters (-328 feet) to 4300 meters (14107 feet)
Assigned Protection Factors (APF)	Depends on headgear selected. Consult selected headgear <i>User Instructions</i> or contact 3M Technical Service.
Belts	<ul style="list-style-type: none"> • 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) • 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 <ul style="list-style-type: none"> • BT-20S • BT-20L • BT-30 • BT-40 	<ul style="list-style-type: none"> • ~28 in (71 cm) • ~38 in (96 cm) • ~26 in (66 cm) “relaxed length”; ~33.5 in (85 cm) “fully extended” • ~33 in (84 cm)

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Decontamination	<ul style="list-style-type: none"> 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 (includes TR301N+ blower unit, TR-371+ cover, TR- 3712N filter, TR-325 belt, and specified battery)	<ul style="list-style-type: none"> ~2.0 lbs (918 g) with TR-330 economy battery ~2.4 lbs (1077 g) with TR-332 high capacity battery
Filter Options	<ul style="list-style-type: none"> High Efficiency (HE) filter Prefilter¹ Prefilter/Spark Arrestor¹
Intrinsic Safety	TR-300+ Assemblies and chargers are not intrinsically safe
Latex	TR-300+ Assemblies do not contain latex
Materials <ul style="list-style-type: none"> PAPR main body Filter Cover 	<ul style="list-style-type: none"> ABS plastic ABS plastic; thermal plastic (window)
Noise Levels	Less than 80 dBA excluding external noise
Temperature Limits - TR-300+ Assembly <ul style="list-style-type: none"> Operating Storage 	<ul style="list-style-type: none"> 23° F to 129° F (-5° to 54° C) -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 <ul style="list-style-type: none"> Motor/blower Battery packs High Efficiency (HE) filters 	From date of manufacturer: approximately <ul style="list-style-type: none"> 5 years 9 months 5 years

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<p>Battery Pack</p> <ul style="list-style-type: none"> • Chemistry • Service Life • Storage temperature • Continuous time on charger • Weight - TR-330 Economy • Weight - TR-332 High Capacity • Run time - TR-330 Economy • Run time - TR-332 High Capacity 	<ul style="list-style-type: none"> • Lithium ion • 250 charge cycles. Consider replacing battery pack when capacity diminishes to 80% or less. • 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. • 0.5 lbs. (220 grams) • 0.84 lbs. (380 grams) • Approximately 4-6 hours² • Approximately 8-12 hours² • Consult with a transportation specialist regarding transport of lithium ion battery packs
<p>Chargers</p> <ul style="list-style-type: none"> • TR-340 Cradle <ul style="list-style-type: none"> ○ Input ○ Output • TR-944N <ul style="list-style-type: none"> ○ Input ○ Output ○ Fuse rating <p>Time to battery pack 100% capacity</p>	<ul style="list-style-type: none"> • 100-240 VAC; 50-60 Hz; 1.5A • 19 VDC; 2.37A • 100-240 VAC; 50-60 Hz; 2A • 19 VDC; 7.89A • 250 V; 15 A <p>TR-330 < 3 hours; TR-332 < 3.5 hours</p>

- 1) 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.
- 2) 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.



WARNING: This product is part of a system that helps protect against certain airborne contaminants. **Misuse may result in sickness or death.** For correct use, see supervisor and *User Instructions*, or call 3M PSD Technical Service in U.S.A., 1-800-243-4630. In Canada, call Technical Service at 1-800-267-4414.