

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

Specifications

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. <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	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	<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.

Attribute	Technical Specification
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)
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-370 cover, TR- 3710N 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° F (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

Attribute	Technical Specification
<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.