



## 3M™ Adflo™ Powered Air Purifying Respirator (PAPR)

### Product Description




- Can be used specifically for high efficient particle filtration (only) or for the filtration of both particulates and gases, depending on filter and cartridge selection.
- 3M™ Adflo™ PAPR is equipped with a particle filter, spark arrestor, pre filter and a particle filter indicator that indicates particle filter clogging. An optional OV/AG cartridge gives additional protection against certain gaseous contaminations. Odor filter (optional) reduces unpleasant odors.
- Provides constant nominal airflow rate of approximately 205 lpm.
- 3M™ Adflo™ PAPR is designed for use above sea level approximately 0-10,000 ft (5000 ft with OV/AG cartridge) and has integrated automatic altitude compensation to adjust for changes in air density.
- Battery indicator.
- For protection factor, see relevant headtop technical data sheets.




### Applications

The product protects against certain airborne contaminants when used with an approved 3M™ Speedglas™ Welding Helmet or 3M™ Versaflo™ headtop and appropriate filters.

### NIOSH Approvals

NIOSH Approval 3M™ Adflo™ Powered Air Purifying Respirator assembly is one component of a NIOSH approved respirator system. Refer to these User Instructions and/or the NIOSH Approval Label provided with the Adflo for a listing of components and optional accessories that can be used to assemble a complete NIOSH approved respirator system or contact 3M Technical Service.

Manufacturer 	3M Personal Safety Division 3M Center, Building 0235-02-W-70 St. Paul, MN 55144-1000
-----------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------

	Shall be disposed of as electrical and electronic waste.
	Recycle.
	Read user instructions before use.

## Limitations of Use

- Only use with original 3M spare parts and accessories listed in the reference leaflet and within the usage conditions given in the Technical Properties.
- The use of substitute components or modifications not specified in these user instructions might seriously impair protection and may invalidate claims under the warranty or cause the product to be noncompliant with protection classifications and approvals.
- 3M™ Adflo™ PAPR system must not be used if 3M™ Adflo™ PAPR does not supply enough air (low flow alarm). Use the air flow check procedure described in the user instruction.
- 3M™ Adflo™ PAPR system must not be used in flammable or explosive environments.
- If you are not sure about the concentration of contaminant, or about equipment performance, seek advice from an industrial safety engineer. The manufacturer is not responsible for injury following incorrect use or incorrect choice of equipment.
- Never modify or alter this product.
- To avoid damage to the product do not use solvents or alcohol for cleaning or disinfection. Do not immerse in water or spray directly with liquids.
- Do not use this respirator to enter areas where:
  - Atmospheres are oxygen deficient.
  - Contaminant concentrations are unknown.
  - Contaminant concentrations are Immediately Dangerous to Life or Health (IDLH).
  - Contaminant concentrations exceed the maximum use concentration (MUC) determined using the Assigned Protection Factor (APF) for the specific respirator system or the APF mandated by specific government standards, whichever is lower.
- Immediately exit the contaminated area if any of the low battery or low airflow alarms activate
- The OV/AG cartridge and nuisance odor pad assembly must always be used with the HE filter, pre-filter and spark arrestor.
- Do not use the OV/AG cartridge or nuisance odor pad assembly alone or in combination with one another.
- Due to lower air density at higher elevations, the 3M™ Adflo™ PAPR automatic flow control may activate the Filter Service Life Indicator prematurely. 3M makes the following recommendations for use of the 3M™ Adflo™ PAPR:
  - Below 5000 feet mean sea level (MSL), the 3M™ Adflo™ PAPR can be used with the 3M™ Adflo™ PAPR HE Particulate Filter by itself or in combination with the 3M™ Adflo™ PAPR Nuisance Odor Pad Assembly or Organic Vapor/Acid Gas Cartridge.
  - Between 5000 feet and 10,000 feet MSL, the 3M™ Adflo™ PAPR should only be used with the 3M™ Adflo™ PAPR HE Particulate Filter.
- Refer to the User Instructions provided with the applicable headgear and the additional cautions and limitations under the NIOSH Cautions and Limitations in this User Instructions.

## Materials

<b>Housing</b>	PA/ABS
<b>Filter Cover</b>	PA/ABS
<b>Belt</b>	PA66/EPDM/Leather
<b>Backpack</b>	TPC-ET-CD/PA/Polyester/PVA

## Technical Properties

Properties	Value
Respiratory Protection Class	See reference leaflet
Nominal Airflow	Approximately 205 l/min
Belt Size	29.5 in – 50 in (75 cm - 127 cm)
Weight 3M™ Adflo™ PAPR (includes P-filter; excludes battery and belt)	24.9 oz (705 g)
Belt Weight	12.3 oz (350 g)
Operating Conditions	-5 °C (23 °F) to +55 °C (131 °F), RH ≤ 90%, non condensing conditions
Storage Conditions	-20 °C (-4 °F) to +35 °C (95 °F), RH ≤ 90%, non-condensing conditions
Short-term storage temperature conditions, non- operating <1 month	-20 °C (-4 °F) to +55 °C (131 °F), RH ≤ 90%, non-condensing conditions
Expected Service Life	5 years depending on conditions of use

## Spare Parts, Accessories, and Consumables

<b>3M™ Adflo™ Turbo</b>	
35-5401-01	Adflo™ Turbo Assembly 35-5401-01, Lithium Ion Battery
35-1499-01	Adflo™ Turbo Assembly Without Belt and Breathing Tube
35-1099-01	Adflo™ Blower Unit with Cover
<b>3M™ Adflo™ Battery Packs and Chargers</b>	
35-1099-07	Battery Pack Li
35-0099-08	Lithium Ion Battery Smart Charger
35-0099-08N6	Battery Charging Stand 6-Postion
<b>3M™ Adflo™ Belts</b>	
15-0099-16	Belt, Leather
15-0099-06	Belt Tongue Extender Replacement, Leather
15-0099-17	Respirator Suspenders
35-0099-14	Belt, Nylon webbing with quick connection

TR-325	Belt, Versaflo, Standard
TR-326	Belt, Versaflo, High Durability BPK-01 Backpack
<b>3M™ Adflo™ Breathing Tubes</b>	
SG-30W	Breathing tube - Self adjusting
SG-30WL	Breathing tube - Extended Self adjusting
SG-40W	Breathing tube - Heavy duty
SG-50W	Breathing tube – Sound dampening
<b>3M™ Adflo™ Filters and Cartridges</b>	
15-0099-99X06	Pre-filter, 6-pack
15-0099-99X12	Pre-filter, 12-pack
15-0299-99X02	High Efficiency Particulate Filter, 2/case
15-0299-99X20	High Efficiency Particulate Filter, 20/ case
15-0299-99X80	High Efficiency Particulate Filter, 80/case
35-0699-99X01	Nuisance Odor Pad Assembly, 1/Case
35-0799-99X01	Nuisance Odor Pad, 1/case
35-0799-99X10	Nuisance Odor Pad, 10/case
15-0499-99X02	Organic Vapor/Acid Gas* Cartridge, 2/case
15-0499-99X06	Organic Vapor/Acid Gas* Cartridge, 6/case
15-0009-99X02	Spark Arrestor, 2/case
35-1099-81	Filter Cover
<b>3M™ Adflo™ Carry Bag</b>	
SG-90	Carry Bag
SG-95	G5 Series Carry & Storage Bag

## Important Notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product, it is recommended to complete some trials to validate the performance of the product within its expected application. All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures). Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control. Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

### Personal Safety Division

3M Center, Building 235-2W-70  
St. Paul, MN 55144-1000

3M PSD products are  
occupational use only.

### In United States of America

Technical Service: 1-800-243-4630

Customer Service: 1-800-328-1667

3M.com/workersafety

### In Canada

Technical Service: 1-800-267-4414

Customer Service: 1-800-410-6880

3M.ca/Safety

3M is a trademark of 3M. Used  
under license in Canada. © 2025,  
3M. All rights reserved. Please  
recycle.

