PureFlo™ industrial respiratory protection systems, used in heavy industry, welding, pharmaceutical, and healthcare environments are part of Gentex Corporation’s innovative industrial safety solutions portfolio, which protect people from immediate and long-term health and safety hazards present in their work environments, while enhancing workplace performance. Designed to provide broad-range personal protection and enhance mobility and end-user comfort, Gentex’s worry free family of industrial safety solutions also includes Dual Mirror® aluminized fabrics, used in products to guard against heat, fire, and molten metal; and Filtron® light management technology, used in products to protect against laser and other damaging light sources.

About Gentex Corporation
Leveraging a product development and manufacturing history that spans more than 100 years, Gentex Corporation is a leading provider of innovative solutions that enhance personal protection and situational awareness for global defense forces, emergency responders, and industrial personnel operating in high performance environments. The company’s product portfolio includes helmet system platforms and capability upgrades sold under the Gentex, Ops-Core®, ALPHA®, and PureFlo™ brands; Dual Mirror® aluminized fabrics; and Filtron® light management technology. Learn more at www.gentexcorp.com.

Optimizing Human Performance
PureFlo powered air-purifying (PAPR) and supplied air (SAR) respirators are among the highest performing, cost effective industrial respiratory protection systems available. Used throughout the world in a wide variety of heavy and light duty industries, these proven respirators can be configured to match your exact needs. Their innovative designs provide integrated respiratory, head, face, and eye protection against industry hazards, while enhancing end user mobility, comfort, and workplace performance.
Maximum mobility and protection from particulate hazards.

Head mounted, completely self-contained PAPR with no trailing leads or hoses. Built-in Electronic System Management (ESM) light bar and audible alarm alert the user to low battery, filter change or low flow. Flow rate 7.6 or 8.2 CFM. Wide vision ANSI compliant primary lens. APF 1000 with Neck Cape, or APF 25 with Loose Fitting Face Seal.

Configurations

The PureFlo ESM is configurable for use in a wide variety of applications. First choose your helmet platform, then the options and accessories for your particular needs.

[Choose Your Helmet]

PureFlo ESM PAPR
Developed for general industrial environments.

PureFlo P-Series ESM PAPR
Developed for the Pharmaceutical Industry.

PureFlo Pureweld ESM PAPR
Developed for welding-fume protection.

[Choose One Option]

APF 25 Loose Fitting Face Seal
(Shown Above on ESM)

APF 1000 Cape
(Shown Above on P-Series and Pureweld)

[Choose Your Filter]

Particulate HEPA Filter HE

Nuisance Odor/Filter Cartridge/HERF/HHC

www.gentexcorp.com/pureflo/us

Options & Accessories

Shown below are our most popular options and accessories. For a full list contact us today.
HE (HEPA Filter)
HE/HF/HC/SD (Acid Gas Filter)
PureFlo PAPR
Developed for general industrial environments.
Configurations
The PureFlo Hydra PAPR is configurable for use in a wide variety of applications. First choose your headtop platform, then the options and accessories for your particular needs.

System Classification
Head Protection
Hard Hat Colors
Face-Shield/Eye Protection
Respiratory
Filter Type
Initial Design Flow Rate
Boost Mode Flow Rate
Noise Level
Weight
Assigned Protection Factor (APF)
FM nonincendive US and Canada
Head Size Range
Charger
Battery Type
Battery Duration
Recharger Time

Powered Air-Purifying Respirator (PAPR)
ANSI/ISEA Z89.1-2009, Type 1 Class G
Black, White, Yellow, Hi-Viz Green
ANSI/ISEA Z87.1-2010 Hi Impact
HEPA (HE) or HEPA/HF/HC
7.6 CFM or 210 Liters/Min
6.6 CFM or 230 Liters/Min
Under 70dB
3.3 lbs
Neck Cape =1000 APF;
Loose Fitting Face Seal = 25 APF
Class 1, 11, 111, Div 2, Groups ABCDEFG
6 3/8”-7 7/8” or 54-61 cm
110V/240V AC 50 or 60 Hz 200 mA
NiMH 5 Cell, 6V, 4.5Ah
7 Hours with Two Batteries
2.5 Hours from Full Discharge

Powered Air-Purifying Respirator (PAPR)
ANSI/ISEA Z89.1-2009, Type 1 Class G
Black, White, Yellow, Hi-Viz Green
ANSI/ISEA Z87.1-2010 Hi Impact
HEPA (HE) or HE/SD/HF/HC, or HE/OV
7.6 CFM or 210 Liters/Min
6.6 CFM or 230 Liters/Min
Under 70dB
Headtop 2.5 lbs, Blower/Battery 2.8 lbs
Neck Cape =1000 APF;
Loose Fitting Face Seal=25 APF
6 3/8”-7 7/8” or 54-61 cm
110V/240V AC 50 or 60 Hz 800 mA
NiMH 5 Cell, 6V, 4.5Ah
7-8 Hours
5 Hours from Full Discharge

Supplied Air Respirator (SAR)
ANSI/ISEA Z89.1-2009, Type 1 Class G
Black, White, Yellow, Hi-Viz Green
ANSI/ISEA Z87.1-2010 Hi Impact
HEPA (HE) or HE/SD/HF/HC or HE/OV
>6 CFM (1704 min) >170 Liters/Min
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Specifications
ESM PAPR
HYDRA PAPR
AIRLINE SAR

For particulate hazards, organic vapors and acid gases.

Waist-mounted twin-filter blower unit. Multiple lightweight headtops including welding. Audible and LED alarm alerts the wearer to low flow, low battery or particulate filter change. Headtops can interchange with PureFlo Airline SAR. APF 1000 with Neck Cape or APF 25 with Loose Fitting Face Seal.

APF 1000 Cape
(Shown Above)
APF 25 Loose Fitting Face Seal

PureFlo PAPR
Developed for general industrial environments.

PureFlo P-Series PAPR
Developed for the Pharmaceutical Industry.

PureFlo Pureweld PAPR
Developed for welding-fume protection.

Supplied Air Respirator (SAR)
ANSI/ISEA Z89.1-2009, Type 1 Class G
Black, White, Yellow, Hi-Viz Green
ANSI/ISEA Z87.1-2010 Hi Impact
HEPA (HE) or HE/SD/HF/HC or HE/OV
>6 CFM (1704 min) >170 Liters/Min
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

APF 1000 Cape
(Shown Above)
APF 25 Loose Fitting Face Seal

PureFlo PAPR
Developed for general industrial environments.

PureFlo P-Series PAPR
Developed for the Pharmaceutical Industry.

PureFlo Pureweld PAPR
Developed for welding-fume protection.

Powered Air-Purifying Respirator (PAPR)
ANSI/ISEA Z89.1-2009, Type 1 Class G
Black, White, Yellow, Hi-Viz Green
ANSI/ISEA Z87.1-2010 Hi Impact
HEPA (HE) or HE/SD/HF/HC or HE/OV
>6 CFM (1704 min) >170 Liters/Min
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Batteries
Charger
Battery Type
Battery Duration
Recharger Time

5 Hours from Full Discharge
5 Hours from Full Discharge
N/A
N/A
N/A

www.gentexcorp.com/pureflo/us
www.gentexcorp.com/pureflo/us
AIRLINE SAR

For applications where continuous flow, low or high pressure air is available.

Heating and cooling tubes allow user to adjust temperature inside helmet. +/- 20-25°F. Multiple lightweight headtops, including welding, headtops can interchange with PureFlo HYDRA.

Configurations
The PureFlo Airline SAR is configurable for use in a wide variety of applications. First choose your headtop platform, then the options and accessories for your particular needs.

For detailed part and ordering information, visit our website at www.gentexcorp.com/pureflo/us.
For applications where continuous flow, low or high pressure air is available.

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**Configurations**

The PureFlo Airline SAR is configurable for use in a wide variety of applications. First choose your headtop platform, then the options and accessories for your particular needs.

**STANDARD COMPONENT**

For detailed part and ordering information, visit our website at www.gentexcorp.com/pureflo/us.

(Choose Your Headtop)

PureFlo
Developed for general industrial environments.

PureFlo Pureweld
Developed for welding-fume protection.

**(Choose One Option) Low Pressure Flow Adapter (less than 15 PSI)**

Down Tube

**High Pressure Valve**

(15-20 CFM @ 65-85 PSI)

Air Temperature Controller (Hot/Cold)

High Pressure Flow Control Valve (10-125 PSI)

Air Cooler (16-25 PSI)

**Filtration**

High Pressure Hose (25, 50, or 100')

Low Pressure Hose (25, 50, or 100')

Portable Low Pressure Ambient Air Pump

Ordering Information

For detailed part and ordering information, visit our website at www.gentexcorp.com/pureflo/us.

<table>
<thead>
<tr>
<th>Part #</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PR08000-SHL-B</td>
<td>Headtop - Black Hard Hat with Neck Cap APF 1000</td>
</tr>
<tr>
<td>PR08000-SHL-B2</td>
<td>Headtop - Black Hard Hat with Face Seal APF 25</td>
</tr>
<tr>
<td>PR09100-50S</td>
<td>SAR Low Pressure Flow Control Valve less than 16 PSI includes Waist Belt</td>
</tr>
<tr>
<td>PR09100-50S</td>
<td>SAR Low Pressure Flow Control Valve 15-125 PSI includes Waist Belt</td>
</tr>
<tr>
<td>PR08000-SHL-B6</td>
<td>Headtop - Black Hard Hat with Neck Cap APF 1000; Auto Darkening Insight (ADF) Welding Lens</td>
</tr>
<tr>
<td>PR08000-SHL-B6</td>
<td>Headtop - Black Hard Hat with Neck Cap APF 1000; Auto Darkening Insight (ADF) Welding Lens</td>
</tr>
<tr>
<td>PR09100-50S</td>
<td>SAR Low Pressure Flow Control Valve 3/8&quot; Hose Assembly with Pex Couplers x 50</td>
</tr>
<tr>
<td>PR09900-SP</td>
<td>SAR High Pressure Flow Control Valve 15-125 PSI includes Waist Belt</td>
</tr>
<tr>
<td>PR09900-SP</td>
<td>Personal Air Cooler includes Waist Belt</td>
</tr>
<tr>
<td>PR09900-SP</td>
<td>Air Temperature Controller Includes Waist Belt</td>
</tr>
<tr>
<td>PR09211-SP</td>
<td>Pump for one helmet</td>
</tr>
<tr>
<td>PR09211-SP</td>
<td>Air Filter Panel with CO Monitor 2 Heliums, 30 CFM</td>
</tr>
<tr>
<td>PR09211-SP</td>
<td>Air Filter Panel with CO Monitor 4 Heliums, 60 CFM</td>
</tr>
<tr>
<td>PR09211-SP</td>
<td>CO Monitor Cal Kit</td>
</tr>
<tr>
<td>PR09211-SP</td>
<td>Replacement Filter Kit for 9872 and 9875</td>
</tr>
<tr>
<td>PR09211-SP</td>
<td>SAR High Pressure 3/8&quot; Hose Assembly with Pex Couplers x 50</td>
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## Specifications

<table>
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<tr>
<th>Component</th>
<th>ESF PAPR</th>
<th>HYDRA PAPR</th>
<th>AIRLINE SAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>System Classification</td>
<td>Powered Air-Purifying Respirator (PAPR)</td>
<td>Powered Air-Purifying Respirator (PAPR)</td>
<td>Supplied Air Respirator (SAR)</td>
</tr>
<tr>
<td>Head Protection</td>
<td>ANSI/ISEA Z89.1-2009, TYPE 1 CLASS G</td>
<td>ANSI/ISEA Z89.1-2009, TYPE 1 CLASS G</td>
<td>ANSI/ISEA Z89.1-2009, TYPE 1 CLASS G</td>
</tr>
<tr>
<td>Hard Hat Colors</td>
<td>Black, White, Yellow, Hi-Viz Green</td>
<td>Black, White, Yellow, Hi-Viz Green</td>
<td>Black, White, Yellow, Hi-Viz Green</td>
</tr>
<tr>
<td>Respiratory</td>
<td>NIOSH 42CFR84</td>
<td>NIOSH 42CFR84</td>
<td>NIOSH 42CFR84</td>
</tr>
<tr>
<td>Filter Type</td>
<td>HEPA (HE) or HEPA/HF/HC, <em>Nuisance OV</em></td>
<td>HEPA (HE) or HEPA/HF/HC or HE/OV</td>
<td>N/A</td>
</tr>
<tr>
<td>Initial Design Flow Rate</td>
<td>7.6 CFM or 210 Liters/Min</td>
<td>7.6 CFM or 210 Liters/Min</td>
<td>&gt;6 CFM (1704 min) &gt;170 Liters/Min</td>
</tr>
<tr>
<td>Boost Mode Flow Rate</td>
<td>8.2 CFM or 230 Liters/Min</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Noise Level</td>
<td>Under 70dB</td>
<td>Under 70dB</td>
<td>N/A</td>
</tr>
<tr>
<td>Weight</td>
<td>3.3 lbs</td>
<td>Headtop 2.5 lbs, Blower/Battery 2.8 lbs</td>
<td>Headtop 2.5 lbs</td>
</tr>
<tr>
<td>Assigned Protection Factor</td>
<td>Neck Cape =1000 APF; Loose Fitting Face Seal = 25 APF</td>
<td>Neck Cape =1000 APF; Loose Fitting Face Seal= 25 APF</td>
<td>1000 APF</td>
</tr>
<tr>
<td>FM nonincendive US and Canada</td>
<td>Class 1, 11, 111, Div 2, Groups A/B/C/D/F/G</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Head Size Range</td>
<td>6 3/8”-7 7/8” or 54-61 cm</td>
<td>6 3/8”-7 7/8” or 54-61 cm</td>
<td>6 3/8”-7 7/8” or 54-61 cm</td>
</tr>
<tr>
<td>Charger</td>
<td>110/240V AC 50 or 60 Hz 2000 mA</td>
<td>110/240V AC 50 or 60 Hz 2000 mA</td>
<td>N/A</td>
</tr>
<tr>
<td>Battery Type</td>
<td>NiMH 5 Cell, 6V, 4.5Ah</td>
<td>NiMH 5 Cell, 6V, 4.5Ah</td>
<td>NiMH 5 Cell, 6V, 4.5Ah</td>
</tr>
<tr>
<td>Battery Duration</td>
<td>7 Hours with Two Batteries</td>
<td>7-8 Hours</td>
<td>N/A</td>
</tr>
<tr>
<td>Recharger Time</td>
<td>2.5 Hours from Full Discharge</td>
<td>5 Hours from Full Discharge</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**HYDRA PAPR**

For particulate hazards, organic vapors and acid gases.

Waist-mounted twin-filter blower unit. Multiple lightweight headtops including welding. Audible and LED alarm alerts the wearer to low flow, low battery or filter change. Headtops can interchange with PureFlo Airline SAR. APF 1000 with Neck Cape or APF 25 with Loose Fitting Face Seal.

**Configurations**

The PureFlo Hydra PAPR is configurable for use in a wide variety of applications. First choose your headtop platform, then the options and accessories for your particular needs.

---

**Standard Kit Components**

- **Blower with Battery**
- **Waist Belt**
- **Hose**
- **Battery Charger**

**Choose One Option**

- APF 1000 Cape (Shown Above)
- APF 25 Loose Fitting Face Seal

**Choose Your Filter**

- HE/HEP A Filter
- HEPA/HEF/HF/HC/SD (Acid Gas Filter)
- HE/ OV (Organic Vapor Filter)

---

[www.gentexcorp.com/pureflo/us](http://www.gentexcorp.com/pureflo/us)
Maximum mobility and protection from particulate hazards.

Head mounted, completely self-contained PAPR with no trailing leads or hoses. Built-in Electronic System Management (ESM) light bar and audible alarm alert the user to low battery, filter change or low flow. Flow rate 7.6 or 8.2 CFM. Wide vision ANSI compliant primary lens. APF 1000 with Neck Cape, or APF 25 with Loose Fitting Face Seal.

Configurations

The PureFlo ESM is configurable for use in a wide variety of applications. First choose your helmet platform, then the options and accessories for your particular needs.

Choose Your Helmet

| PureFlo ESM PAPR | PureFlo P-Series ESM PAPR | PureFlo Pureweld ESM PAPR |

Choose One Option

| APF 25 Loose Fitting Face Seal (Shown Above on ESM) | APF 1000 Cape (Shown Above on P-Series and Pureweld) |

Choose Your Filter

| Particulate HEPA Filter HE | Nuisance Odor/Filter Cartridge/HEPA/HE/HE/HE/HE/HE |

www.gentexcorp.com/pureflo/us
Industrial Respiratory Protection Systems

PureFlo™ industrial respiratory protection systems, used in heavy industry, welding, pharmaceutical, and healthcare environments are part of Gentex Corporation’s innovative industrial safety solutions portfolio, which protect people from immediate and long-term health and safety hazards present in their work environments, while enhancing workplace performance. Designed to provide broad-range personal protection and enhance mobility and end-user comfort, Gentex’s worry free family of industrial safety solutions also includes Dual Mirror® aluminized fabrics, used in products to guard against heat, fire, and molten metal; and Filtron® light management technology, used in products to protect against laser and other damaging light sources.

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