

The New Cost-Effective American-Certified Protection!

The iEvac[®] Protects against:

- O Carbon Monoxide
- Hydrogen Sulfide
- Additional Toxic Gases: sarin, smoke, hydrogen cyanide, chlorine, ammonia, sulfur dioxide, tear gas, OC, and more
- Harmful Particulates: soot, fumes, aerosols, and others
 - Contains a HEPA P100 filter that removes sub-micron particles such as ebola, anthrax, ricin, smallpox, and radioactive particles
- Life-Threatening Physical Hazards:

flammability and radiant heat





Qualified Anti-Terrorism Technology U.S. Department of Homeland Security





Performance and Protection Capability Tests beyond the Requirements of American Standard ASTM E2952

Tested by US Army Research, Development and Engineering Command, Edgewood Chemical Biological Center

Function	Test Condition	Requirement	Result
Overall protection factor	Test subjects performing standard OSHA exercises inside the fit test chamber at Edgewood	2,000	> 90,000
Protection factor inside the hood but outside the nose cup	Test subjects performing standard OSHA exercises inside the fit test chamber at Edgewood	150	> 8,000

Physical Properties: Tested and Certified to American Standard ASTM E2952

Test Condition	Duration	Result
Within 9.5 inches (240 mm) of heating panel between 980 and 1700°F (527 and 927°C)	15 secs repeated	pass
9.8 inches (250 mm) away from a burner flame of 1475°F (800°C)	One rotation	pass
Molten polypropylene rod drip	Each location	pass
CO at 77°F (25°C) and 87%RH	15 mins	pass
Read eye chart from 20 feet (6.1 meters) at the 20/100 line	5 mins	pass
Apertometer headform	viewing	pass
Haze of vision area	left and right	pass
32°F (0°C) followed by 158°F (70°C)	24 hours each	pass
Ambient to 4.4 psi (300 mbar) below	1,000 cycles	pass
0.75 inches (19 mm) at 100 rpm	10,000 cycles	pass
Salt spray at 95°F (35°C) then 72°F (22°C $$) at 50% RH $$	48 hours each	pass
3.5 oz (100 grams) striker dropped from 4 inches (100 mm)	Ready to use	pass
Immerse in water at 160°F (70°C) to depth of 24 inches	5 mins	pass
	 Within 9.5 inches (240 mm) of heating panel between 980 and 1700°F (527 and 927°C) 9.8 inches (250 mm) away from a burner flame of 1475°F (800°C) Molten polypropylene rod drip CO at 77°F (25°C) and 87%RH Read eye chart from 20 feet (6.1 meters) at the 20/100 line Apertometer headform Haze of vision area 32°F (0°C) followed by 158°F (70°C) Ambient to 4.4 psi (300 mbar) below 0.75 inches (19 mm) at 100 rpm Salt spray at 95°F (35°C) then 72°F (22°C) at 50% RH 3.5 oz (100 grams) striker dropped from 4 inches (100 mm) 	Within 9.5 inches (240 mm) of heating panel between 980 and 1700°F (527 and 927°C)15 secs repeated9.8 inches (250 mm) away from a burner flame of 1475°F (800°C)One rotationMolten polypropylene rod dripEach locationCO at 77°F (25°C) and 87%RH15 minsRead eye chart from 20 feet (6.1 meters) at the 20/100 line5 minsApertometer headformviewingHaze of vision arealeft and right32°F (0°C) followed by 158°F (70°C)24 hours eachAmbient to 4.4 psi (300 mbar) below1,000 cycles0.75 inches (19 mm) at 100 rpm10,000 cyclesSalt spray at 95°F (35°C) then 72°F (22°C) at 50% RH48 hours each3.5 oz (100 grams) striker dropped from 4 inches (100 mm)Ready to use

Hood Performance Tests: Tested and Certified to American Standard ASTM E2952

Function	Test Condition	Duration	Requirement	Result
Speed of donning	Remove from pack and wear properly	Less than 30 secs	< 30 secs	pass
Total inward leakage	Test subjects performing standard exercises	2.5 mins	< 2%	<0.01%
Ocular leakage	Test subjects performing standard exercises	2.5 mins	< 20%	<0.1%
Carbon dioxide build-up	Breathing machine	25 cycles per min	< 2.5%	< 1.7%
Breathing resistance	Probed headform with breathing machine	30 cycles	-3.2 in (-81.5 mm) +1.2 in (+30.6 mm)	pass
Soot particulate	Inhalation breathing resistance with 200 mg/m³ soot	5 mins	< 8 in (< 204 mm)	pass
Soot particulate	Exhalation breathing resistance with 200 mg/m ³ soot	5 mins	< 6 in (< 153 mm)	pass





US Army Research, Development & Engineering Command Edgewood Chemical Biological Center

Gas and Particulate Tests : Tested and Certified to American Standard ASTM E2952

Challenge	Symbol	Туре	Concentration (ppm)	Requirement	Result
Carbon monoxide	CO	Hazardous combustion by-product	3,000	15 mins	> 45 mins
Carbon monoxide	CO	Hazardous combustion by-product	5,000	15 mins	> 46 mins
Hydrogen cyanide	HCN	Hazardous combustion by-product	400	15 mins	> 90 mins
Hydrogen chloride	HCI	Acid gas toxic industrial chemical	1,000	15 mins	> 70 mins
Sulfur dioxide	SO ₂	Acid gas toxic industrial chemical	100	15 mins	> 70 mins
Cyclohexane	C ₆ H ₁₂	Organic vapor toxic industrial chemical	500	15 mins	> 41 mins
Acrolein	$C_{3}H_{4}O$	Organic vapor toxic industrial chemical	100	15 mins	> 65 mins
Dioctyl phthalate	DOP	Particulate aerosol 0.185 micron	200 mg/m ³	>95%	> 99.996%

Additional Gas and Particulate Tests

Challenge	Symbol	Туре	Concentration (ppm)	Requirement	Result
Carbon monoxide	CO	Hazardous combustion by-product	10,000	15 mins	> 30 mins
Dioctyl phthalate	DOP	HEPA filtration test for particulates and aerosols	200 mg/m ³	> 99.97%	> 99.996%
Ammonia	NH ₃	Toxic industrial gas	1,250	15 mins	> 60 mins
Formaldehyde	НСНО	Toxic industrial gas	250	15 mins	> 60 mins
Phosgene	COCl ₂	Toxic industrial gas	125	15 mins	> 60 mins
Phosphine	PH_3	Toxic industrial gas	150	15 mins	> 60 mins
Chlorine	Cl ₂	Toxic industrial gas	200	15 mins	> 60 mins
DMMP	DMMP	Simulant for sarin nerve gas	1,000	15 mins	> 60 mins
Tear gas	CS	Tear gas	8	>8 hours	>8 hours
Tear gas	CN	Tear gas	16	>8 hours	>8 hours
Hydrogen sulfide	H ₂ S	Acid gas toxic industrial chemical	1,000	15 mins	> 600 mins
Hydrogen sulfide	H ₂ S	Acid gas toxic industrial chemical	5,000	15 mins	> 85 mins
Hydrogen sulfide	H ₂ S	Acid gas toxic industrial chemical	10,000	15 mins	> 40 mins
Hydrogen sulfide	H_2S	Acid gas toxic industrial chemical	20,000	15 mins	> 20 mins

Certified to American Standard for Air-Purifying Respiratory Protective Smoke Escape Devices ASTM E2952

Evac® SMOKE/FIRE HOOD





- Maintenance-free
- At 9.5 in. (240mm) can withstand up to 1700°F (927°C) in radiant heat
- Twin filters for easier breathing
- Improved field of view compared with single filter in front
- Hood is a clear material resulting in an unobstructed field of view
- High visibility reflective strips for easy recognition
- Highest level of protection maintained by silicone neck dam
- Protects lungs, head, eyes, and face
- Can be used with eyeglasses, beards, and long hair
- Packaged in puncture- and- water-proof laminate barrier
- Quick and easy donning
- Latex-free
- One universal size

Weight of iEvac® in ready-to-use configuration:1.4 lbs. - 635 gramsSize of iEvac® folded in vacuum-sealed foil bag:Height - 5 $\frac{1}{2}$ in (14N/: bl = 5 $\frac{1}{2}$ in (14

Height $-5 \frac{1}{2}$ in (14 cm) Width $-5 \frac{1}{2}$ in (14 cm) Depth $-4 \frac{3}{4}$ in (12 cm)

Shelf life:

5 ½ years from date of manufacture

For one-time use only. Read instructions before using.

Ordering info: iEvac[®] Smoke/Fire Hood item # EBP-900 iEvac[®] Demo Hood item # EBP-200 iEvac[®] Nylon Carry-pouch item # EBP-270 iEvac[®] Single Wall-mounting Rack item # EBP-305 iEvac[®] Double Wall-mounting Rack item # EBP-306 iEvac[®] Wall-mounting Cabinet (12-unit) with & without alarm item # EBP- #308 & #309









iEvac® vacuum-sealed in foil bag

