

# Cartridges/Filters for Air-Purifying Respirators



North offers a complete line of cartridges and filters for the North 5500, 7700, 5400 and 7600 Series facepieces. All cartridges and filters listed below are interchangeable with any of these masks. Filters for Limited Use respirators, canisters for gas masks, and PAPR cartridges are listed in this catalog with those products.

## NORTH ESLIFE™ PROGRAM FOR CARTRIDGE CHANGE SCHEDULES

OSHA's Standard for Respiratory Protection, 29 CFR 1910.134, requires Employers to implement a change schedule for all vapor and gas cartridges when there isn't an end-of-service life indicator on the cartridge. This schedule must be site specific and take into consideration worksite humidity, worker breathing rate as well as contaminant concentrations.

The North esLife Program is designed to help you with your cartridge change schedule, providing information on a cartridge's life based on your worksite parameters. Visit the North web site [www.northsafety.com](http://www.northsafety.com) to learn more and try the North esLife Program.

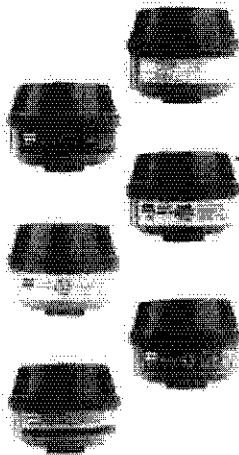
PART NO.	DESCRIPTION	PROTECTION FROM	PACKAGING
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### GAS AND VAPOR CARTRIDGES



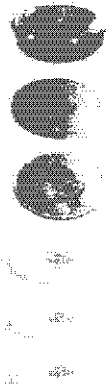
75SC	Defender™ Multi-Purpose	Organic vapors, ammonia, methylamine, formaldehyde and acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide [escape], hydrogen fluoride and chlorine dioxide)	Pair
N75001	Organic Vapor	Organic vapors	Pair
N75002	Acid Gas Cartridge	Acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide [escape], hydrogen fluoride and chlorine dioxide) and formaldehyde	Pair
N75003	Organic Vapor & Acid Gas	Organic vapors and acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide [escape], hydrogen fluoride and chlorine dioxide)	Pair
N75004	Ammonia & Methylamine	Ammonia and methylamine	Pair
N750052	Mercury Vapor Cartridge with ESLI	Mercury vapor and chlorine with End-of-Service Life Indicator (ESLI) for mercury	Pair

### COMBINATION GAS AND VAPOR CARTRIDGES WITH P100 PARTICULATE FILTERS



75SCP100	Defender™ Multi-Purpose with P100	Organic vapors, ammonia, methylamine, formaldehyde and acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide [escape], hydrogen fluoride and chlorine dioxide); and 99.97% filter efficiency for all particulates	Pair
7581P100	Organic Vapor with P100	Organic vapors; and 99.97% filter efficiency for all particulates	Pair
7582P100	Acid Gas with P100	Acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide [escape], hydrogen fluoride and chlorine dioxide) and formaldehyde; and 99.97% filter efficiency for all particulates	Pair
7583P100	Organic Vapor & Acid Gas with P100	Organic vapors and acid gases (chlorine, hydrogen chloride, sulfur dioxide, hydrogen sulfide [escape], hydrogen fluoride and chlorine dioxide); and 99.97% filter efficiency for all particulates	Pair
7584P100	Ammonia & Methylamine with P100	Ammonia and methylamine; and 99.97% filter efficiency for all particulates	Pair
75852P100	Mercury Vapor with ESLI and P100	Mercury vapor and chlorine with End-of-Service Life Indicator (ESLI) for mercury; and 99.97% filter efficiency for all particulates	Pair

# Cartridges/Filters for Air-Purifying Respirators



PART NO.	DESCRIPTION	PROTECTION FROM	PACKAGING
<b>PARTICULATE FILTERS</b>			
7560P100	P100	99.97% filter efficiency for all particulates	Pair
75FFP100	Pancake: Low profile P100 filter for use under welding helmets	99.97% filter efficiency for all particulates	Pair
75FFP100NL	Pancake with odor relief: Low profile P100 filter for use under welding helmets	99.97% filter efficiency for all particulates; plus relief from odors caused by nuisance levels of organic vapors, acid gases and ozone	Pair
7506N95	N95 Prefilter	95% filter efficiency for non-oil based aerosol particulates	10 per Pack
7506R95	R95 Prefilter	95% filter efficiency for all particulates. Restricted to 8 hours service life if used in atmospheres containing oil-based aerosols	10 per Pack
7506N99	N99 Prefilter	99% filter efficiency for non-oil based aerosol particulates	10 per Pack
<b>PARTICULATE FILTER ASSEMBLIES</b>			
7535FFP100	Stack Pack: Pancake with Adapter	99.97% filter efficiency for all particulates. Includes one pair of N750035 adapter to attach the Pancake to North cartridges. May not be used with the Defender cartridges.	5 Pair filters & 1 Pair adapter
7531N95	N95 Filter Assembly	95% filter efficiency for non-oil based aerosol particulates. Includes 7506N95 prefilters, N750027 filter covers and N750015 filter retainers for use on half mask or full facepiece when cartridges are not used.	1 Pair
7531R95	R95 Filter Assembly	95% filter efficiency for all particulates. Restricted to 8 hours service life if used in atmospheres containing oil-based aerosols. Includes 7506R95 prefilters, N750027 filter covers and N750015 filter retainers for use on half mask or full facepiece when cartridges are not used.	1 Pair

## FILTER EFFICIENCIES

The National Institute of Occupational Safety and Health (NIOSH) classifies filters in two ways, type and efficiency. Using these classifications there are nine possible filter groups. The most commonly used are N95 as the most economical, and P100 providing the highest possible protection. The classifications are defined on the right.

### Type

- N** Not for use in atmospheres that contain oil based aerosols.
- R** Restricted to eight hours of service life if used in atmospheres that contain oil based aerosols.
- P** Oil Proof. May be used without restrictions in atmospheres that contain oil based aerosols.

### Efficiency

- 95** 95% minimum filter efficiency in removing particulates.
- 99** 99% minimum filter efficiency in removing particulates.
- 100** 99.97% minimum filter efficiency in removing particulates.



PART NO.	DESCRIPTION	PROTECTION FROM	PACKAGING
<b>ACCESSORIES</b>			
N750035	Pancake Adapter	Allows user to stack the Pancake on a North cartridge, converting the Pancake to a P100 prefilter. May not be used with the Defender.	Each
N750015	Filter Holder	Holds prefilters onto North half and full facepieces. Must be used with N750027 Filter cover.	Each
N750027	Seal Check / Filter Cover	Snaps on top of prefilters to hold them in place on North cartridges or on N750015 filter holder	Each
N750029	Shower Cap	For use with 7560P100. Deflects moisture during a "Decon" shower	Each

**NORTH**  
by Honeywell

[www.northsafety.com](http://www.northsafety.com)

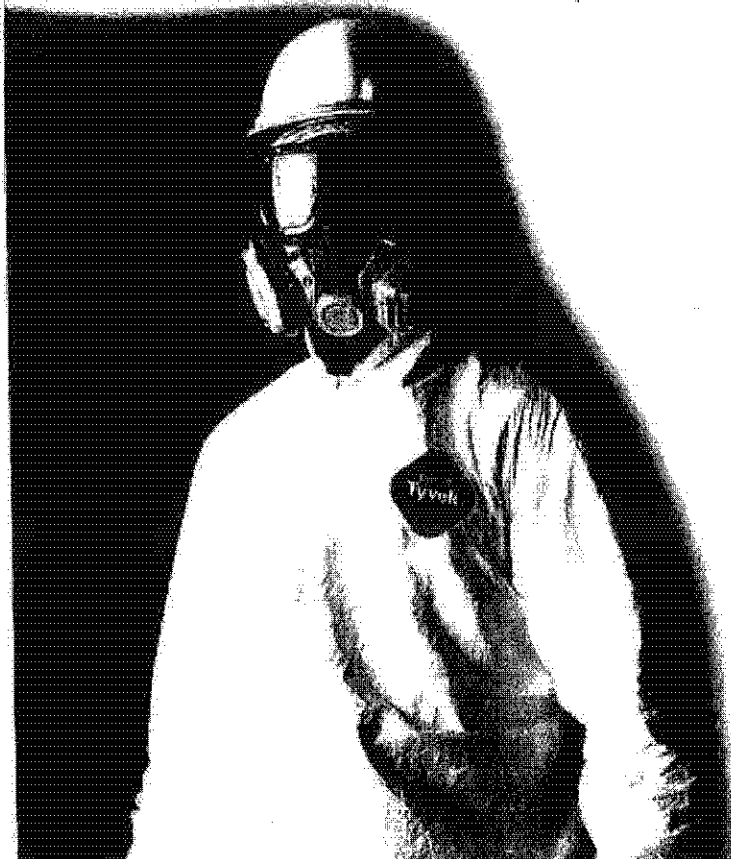
# DuPont™ Tyvek®

## The best balance of protection, durability and comfort

With Tyvek® you don't have to compromise. That's because Tyvek® delivers the best balance of protection, durability and comfort. Made using a proprietary manufacturing process, Tyvek® features an inherent barrier. So, unlike other protective apparel fabrics, which have either a film or coating that can be easily scratched or worn away, Tyvek® provides barrier through the entire fabric. As a result, your protection is not compromised unless the fabric has been completely torn—which isn't easy to do because of the strength and durability of Tyvek®. Make sure you're getting Tyvek®. Ask for it by name.

### Barrier Protection You Can Trust, Durability That Isn't Easily Compromised

- Tyvek® is the industry standard for dry particulate barriers. Microscopic particles as small as 0.5 microns can't pass through Tyvek®—even after it's been abraded.
- Tyvek® is an inherent barrier—not easily scratched or worn away.



### Comfort You'd Never Expect

Standing still, your body radiates heat and moisture vapor. So, it's no surprise that working in protective apparel that can't breathe escalates the problem dramatically and can affect productivity. It's called heat stress. And, it can seriously compromise your safety, especially in hazardous environments.

- Tyvek® lets air and moisture vapor pass through.
- Tyvek® is anti-static treated.
- Tyvek® breathes. Breathability is a key factor in reducing heat stress.
- Tyvek® is six times more breathable than microporous film garment materials.
- Tyvek® SoftWear™ is even more comfortable and four times as breathable as traditional Tyvek®.
- Tyvek® SoftWear™ has a dramatically softer feel.

### Proven Performance and Quality

At DuPont Personal Protection, our goal is to combine scientific innovation with material, garment and manufacturing knowledge to create protective apparel that helps the people who wear PPE perform at their best. Both DuPont manufacturing facilities are certified to ISO 9001:1994.

### Garment Styles To Meet Your Needs

- Tyvek® is available in a wide variety of garment styles, such as coveralls, labcoats, smocks and aprons.
- Tyvek® SoftWear™ is available in four coverall styles.

### Wide Range of Applications

- General Maintenance Operations
- Construction & Agricultural
- Lead & Asbestos Abatement
- Environmental Clean-up
- Modesty Garments (Hospitals & Police)
- Environments where cross contamination is an issue
- Spray Painting
- Food Processing
- Mold Remediation
- Abrasive Blasting
- Forensics



*The miracles of science™*

# Tyvek® and Tyvek® SoftWear™

## Physical Properties

PROPERTY	UNITS	TYVEK®	TYVEK® SOFTWEAR™
Basis Weight	lb/yd <sup>2</sup>	1.2	1.2
Thickness	mil	5.4	6.0
Tongue Tear, MD	lbf	2.2	2.2
Tongue Tear, CD	lbf	2.3	2.2
Strip Tensile, MD	lbf	7.9	7.9
Strip Tensile, CD	lbf	6.7	6.1
Mullen Burst	psi	50	55
Porosity	l/min/mm H <sub>2</sub> O	3.0	18.6
Static—Log R	log ohms	<9.6	<9.8
Flammability	16 CFR 1610	Class 1	Class 1

### INDEX OF CODES:

< = less than

These results are measured using the latest ASTM test methods. Results will vary due to the changes in test methods. A true test of performance is in use.

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DuPont makes no guarantee of results and assumes no obligation or liability in connection with this information.

It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. The information set forth herein reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for information use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk.

Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. Please contact the garment manufacturer for specific data. If fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid potential exposure to chemical. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, NO WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE AND ASSUME NO LIABILITY WHATSOEVER IN CONNECTION WITH ANY USE OF THIS INFORMATION.

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### For more information:

Visit our website at:

[www.PersonalProtection.DuPont.com](http://www.PersonalProtection.DuPont.com)

### DuPont Personal Protection

Fax-On-Demand Service at 1-800-558-9329

DuPont manufactures a complete line of garments for personal protection.

For more information, call 1-800-931-3456

#### WARNINGS:

- 1) Tyvek® is not flame-resistant and should not be used around heat, flame, sparks or in potentially flammable or explosive environments.
- 2) Garments made of Tyvek® should have slip-resistant or antislip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

**DuPont**  
**Personal Protection**

 *The miracles of science®*



# Tychem®

CHEMICAL PROTECTIVE CLOTHING

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## Tychem® SL

### Lightweight protection of Tyvek® laminated with a chemical-resistant Saranex

Tychem® SL delivers effective protection against a range of chemical environments. Tychem® SL, utilizing Saranex® 23-P film laminated to Tyvek® brand protective material, is a lightweight, comfortable garment specifically designed for easy wear. Tychem® SL is ideal for chemical mixing, remediation, emergency medical response, paint spraying, and radioactive environments.

Tychem® SL is used in a variety of industries, including environmental clean-up operations, waste management, industrial plants, cleanroom applications, hazardous material response teams and other emergency services. General garment construction/wear guidelines should be followed according to the specific application.<sup>1</sup>

#### Visibility

When workers wear high-visibility colors it improves how well they can be recognized and distinguished from the background. Obviously, safety is enhanced when workers can be clearly see co-workers. The Tychem® SL standard white color provides the highest level of visibility in low and dim light; however, it may have low contrast. White garments provide high contrast visibility in wooded areas and low contrast against snow. In a laboratory study, Tychem® SL received high overall ratings for visibility for dim light and bright light. Contrast was low against bright, light colored backgrounds, but very high against dark and outdoor backgrounds.<sup>2</sup>

#### Durability

Tychem® SL is rugged and durable even in cold temperatures. Tychem® SL offers little change in stiffness when exposed to extreme cold temperatures (-65°C to 20°C or -85°F to 68°F) measured per ASTM D747.

#### Permeation

Tychem® SL is the only fabric laminated with Saranex® DuPont provides permeation data and technical support provides permeation data and detailed information on how to perform against chemical classes in a variety of forms. Choose Fax-On-Demand, website, CD-ROM or our ever printed Permeation Guide<sup>3</sup> for DuPont Tychem® Protec

#### Nuclear Environments

A study was conducted by Southwest Research Institute on fabrics in potentially radioactive environments. The study of the fabrics' ability to resist water vapor and tritium gas penetration showed Tychem® SL was 150% better than PVC after three hours of exposure. The study states, "when it is desirable to resist penetration of tritium, data suggest that the wearer may work three hours in Tychem® SL, as opposed to only half an hour in other fabrics".

### Permeation Data for ASTM Recommended List of Chemicals for Evaluating Protective Clothing Materials (ASTM F1001)

CHEMICAL NAME	PHYSICAL PHASE	AVERAGE NORMALIZED BREAKTHROUGH TIME (minutes)	AVERAGE PERMEATION RATE (µg/cm <sup>2</sup> /minute)
Acetone	L	> 24	1.6
Acetonitrile	L	12	2.8
Ammonia	G	32	0.15
1,3-Butadiene	G	> 480	< 0.02
Carbon disulfide	L	immed.	>50
Chlorine gas	G	> 480	< 0.01
Dichloromethane	L	immed.	>50
Diethylamine	L	12	>50
N,N-	L	112	0.85

INDEX OF CODES

Dimethylformamide			
Ethyl acetate	L	14	0.54
Ethylene oxide	G	immed.	8.4
n-Hexane	L	146	0.48
Hydrogen chloride	G	> 480	< 0.1
Methanol	L	>480	<0.001
Methyl chloride	G	> 480	< 0.006
Nitrobenzene	L	102	2.3
Sodium hydroxide, 50%	L	> 480	< 0.1
Sulfuric acid (conc.)	L	> 480	< 0.1
1,1,2,2-Tetrachloroethylene	L	immed.	5.7
Tetrahydrofuran	L	immed.	>50
Toluene	L	immed.	25

> = greater than  
 < = less than  
 L = liquid, G = gas  
 Immed. = immediate (<10 minutes)  
 Numbers reported are averages of samples tested by ASTM F739 test method. Sample results do vary and therefore averages for these results are reported.

CHEMICAL NAME	PHYSICAL PHASE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME (minutes)	CHEMICAL NAME	PHYSICAL PHASE	CAS #	AVERAGE NORMALIZED BREAKTHROUGH TIME (minutes)
Acetone	L	64-19-7	>480	Methanol	L	67-56-1	>480
Acetic anhydride	L	108-24-7	>480	Methyl bromide	G	74-83-9	>480
Acrylic acid	L	79-10-7	>480	Methyl chloride	G	74-87-3	>480
Acrylonitrile	L	107-13-1	>480	Methyl ethyl ketoxime	L	96-29-7	>480
Ammonia	L	7664-41-7	>480	Methyl t-butyl ether	L	1634-04-4	>480
Ammonium hydroxide, 28%-30%	L	1336-21-6	>480	n-Methyl-2-pyrrolidone	L	872-50-4	>480
Benzene	L	71-43-2	74	4,4'-Methylene bis (o-chloroaniline), sat. sol. in methanol	L	101-14-4	>480
Benzo[a]pyrene	S	50-32-8	>480	Mineral oil	L	8012-95-1	>480
Black liquor	L	123465-36-1	>480	Mineral spirits	L	64475-85-0	>480
Chemideize 727 ND	L	mixture	>480	Nicotine	L	54-11-5	450
Chlorine, 20 ppm	G	7782-50-5	>480	Nitric acid, 70%	L	7997-37-2	>480
Chloroacetone	L	78-95-5	480	Nitrogen dioxide	G	10102-44-0	>480
Chromic acid, 60%	L	1333-82-0	>480	Oleum, 40% free SO <sub>3</sub>	L	8014-95-7	>480
o-Cresol	L	95-48-7	>480	PCB	L	11097-69-1	>480
Crude oil	L	8002-05-8	>480	PCB 1%, Mineral spirits 99%	L	11097-69-1	>480
1,1-Dichlorotetrafluoroethane	L	374-07-2	>480	PCB 50%, Mineral oil 50%	L	11097-69-1	>480
Diethylaniline crude	L	91-86-7	>480				
Diethyl-m-toluidine crude	L	91-67-8	>480				
Ethylene glycol	L	107-21-1	>480				
Formalin (Formaldehyde)	L	50-00-0	>480				

37%)							
Formic acid	L	64-18-6	>480	PCB 50%, Trichlorobenzene	L	11097-69-1	>480
Fuel oil	L	mixture	>480	50%			
Gluteraldehyde, 5% aqueous solution	L	111-30-8	>480	PCB gas condensate	L	10097-69-1	401
Green liquor	L	68131-30-6	>480	Phenol, 85%	L	108-95-2	>480
Hexamethyldisilazane	L	999-97-3	>480	Phenyl ethyl alcohol	L	98-85-1	>480
Hydrazine	L	302-01-2	>480	Phosphoric acid, 85%	L	7665-38-2	>480
Hydrochloric acid, 37%	L	7647-01-0	>480	Potassium acetate, sat. sol. in water	L	127-08-2	>480
Hydrofluoric acid, 48%	L	7664-39-3	>480	Sodium hydroxide, 50%	L	1310-73-2	>480
Iodine	S	7553-56-2	>480	Sodium hypochlorite, 17%	L	7681-52-9	>480
Mercuric chloride, sat. sol. in water	L	7487-94-7	>480	Sodium hypochlorite, 5.25%	L	7681-52-9	>480
Mercury	L	7439-97-6	>480	Sulfur dioxide	G	7446-09-5	>480
Methanesulfonic acid	L	75-75-2	>480	Sulfuric acid	L	7664-93-9	>480
				1,1,1,2-Tetrafluoroethane	L	811-97-2	>480
				Toluene-2,4-diisocyanate	L	584-84-9	>480
				Triethylamine	L	121-44-8	>480
				White liquor	L	68131-33-9	>480

> = greater than, L = liquid, G = gas, S = solid

Physical Properties of Tychem® SL		Chemical Warfare Agents		
		AGENT	TIME	CUMULATIVE PERMEATION
Basis Weight (ASTM D3776-90)	3.6 oz/yd <sup>2</sup>	HD, Sulfur Mustard	3 hours	<0.1 µg/cm <sup>2</sup>
Thickness (ASTM D1777-75)	13 mils	L, Lewisite	6 hours	<0.1 µg/cm <sup>2</sup>
Mullen Burst (ASTM D3786-87)	73 psi	GB, Sarin	6 hours	<0.00012 µg/cm <sup>2</sup>
Breaking Strength Grab (md/cd) (ASTM D5034-90)	47/50 lbs	VX	12 hours	<0.00012 µg/cm <sup>2</sup>
Tearing Strength Trapeziod (md/cd) (ASTM D1117-80)	9/8 lbs	Applied at 10g/m <sup>2</sup> in 1µL drops at 22°C, 50%		
				< = less than

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**For more information:**

For specific permeation data and breakthrough times for other chemicals:

**DuPont Protective Apparel**

This information is based upon technical data that DuPont believes to be reliable. It is subject to revision as additional knowledge and experience are gained. DUPONT MAKES NO GUARANTEE OF RESULTS AND ASSUMES NO OBLIGATION OR LIABILITY WHATSOEVER IN CONNECTION WITH THIS INFORMATION.

It is the user's responsibility to determine the level of toxicity and the proper personal protective equipment needed. The information set forth herein

**Fax-On-Demand Service  
at 1-800-558-5907**

Visit our website at:  
[www.TyvekProtectiveApprl.com](http://www.TyvekProtectiveApprl.com)

DuPont manufactures a complete line of chemical protective fabrics made of Tychem® and fabric made of Tyvek® for dry particulate protection. For more information, call 1-877-797-5907.

**WARNINGS:**

- 1) Tychem® BR is not flame-resistant and should not be used around heat, flame, sparks, or potentially flammable or explosive environments.
- 2) Garments made of Tychem® BR should have slip-resistant or antislip materials on the outer surface of boots, shoe covers or other garment surfaces in conditions where slipping could occur.

reflects laboratory performance of fabrics, not complete garments, under controlled conditions. It is intended for information use by persons having technical skill for evaluation under their specific end-use conditions, at their own discretion and risk.

Anyone intending to use this information should first verify that the garment selected is suitable for the intended use. In many cases, seams and closures have shorter breakthrough times and higher permeation rates than the fabric. Please contact the garment manufacturer for specific data. If fabric becomes torn, abraded or punctured, end user should discontinue use of garment to avoid potential exposure to chemical. Since conditions of use are outside our control, we make no warranties, expressed or implied, including, without limitation, no warranties of merchantability or fitness for a particular use and assume no liability whatsoever in connection with any use of this information.

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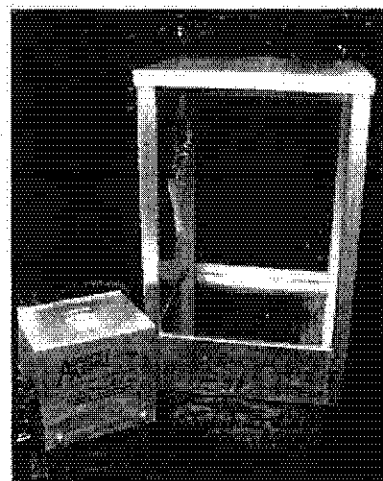
## Water Filtration

### Portable Shower #9105

The ORIGINAL COLLAPSIBLE telescoping decontamination shower is easily set up by two men in a matter of seconds.

**Features:**

- \* MADE IN U.S.A.
  - \* Lightweight aluminum construction
  - \* 100 Micron drain filter
  - \* Removable curtain
  - \* Two (2) Handles for E-Z Handling
- Dimensions: (Open) 31" X 30" X 83"  
Dimensions: (Closed) 31" X 31" X 48"  
Weight: 100 lbs.



#9115 Two Stage Pump and #9105 Collapsed Shower

[CLICK HERE FOR THE PARTS LIST](#)

### Two Stage Pump #9115

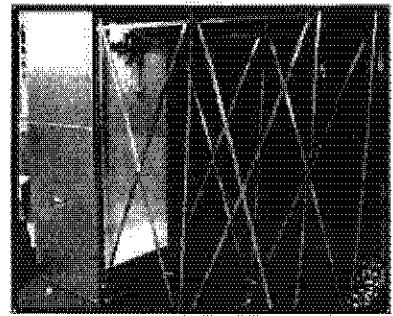
**Features:**

- \* MADE IN U.S.A.
- \* Enclosed aluminum container
- \* Galvanized plumbing
- \* 5 Micron and 50 Micron filtration
- \* 12 Gallons per minute
- \* Weight: 36 lbs.
- \* 1/2 H.P. Motor

[CLICK HERE FOR THE PARTS LIST](#)

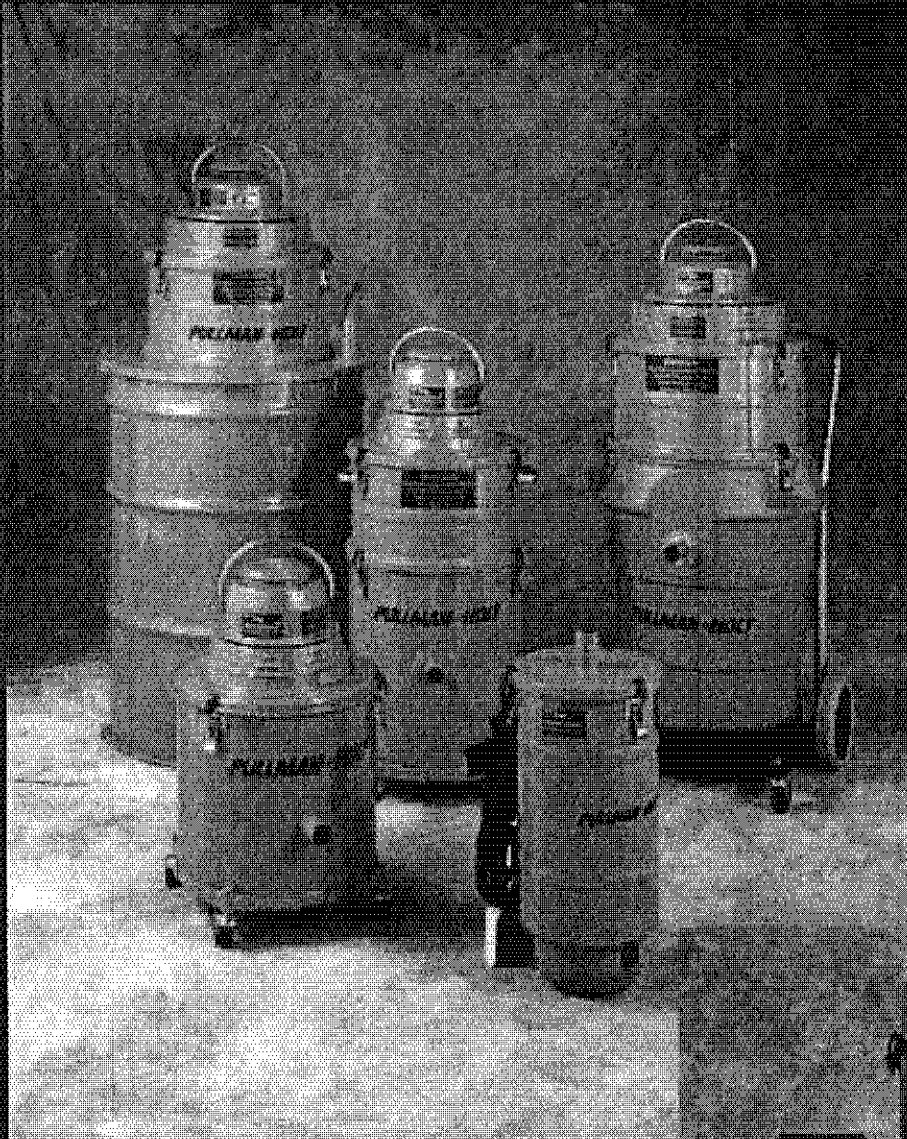
### Entry/Exit Frames Model #9108

Decontamination frames are 32" wide which can be used to form "tunnels" from one contaminated area to another. They can also form a passageway from a decontamination trailer to a work area, or can be used with the Aero-Porta Shower for airlock chambers.



Aerospace America, Inc. ~ 900 Harry Truman Pkwy. ~ Bay City, MI 48706  
1-800-237-6414 ~ 989-684-2121 ~ Fax: 989-684-4488

# HEPA VACUUMS



Asbestos  
Abatement

Lead  
Removal

Hazardous Mold  
Remediation



QUEENAN-FOLEY

**SURVIVORS SERIES**

If you're doing professional abatement work, you need a continuous duty heavy grade vacuum. You need one that does the job right the first time, every time. Pullman-Holt understands your needs and has developed a line of HEPA vacs that are up to whatever challenge you can put them to. From backpack style vacs to huge drum canister vacs, there's something for every type of operation. We know that, as a busy professional, you don't have time to shop for a new vacuum every time your old one breaks down, not to mention the financial considerations. That's why we've designed all Pullman-Holt HEPA vacs with quality and long service-life in mind. And, we proudly stand behind our products with a warranty that's unsurpassed in the safety/environmental industry. So, take a few minutes now to look over this brochure and select the models that will best suit your needs. Once you place your order and receive your Pullman-Holt vac(s), you won't have to think about your vacuum equipment any more. It'll just be there, ready to go when you are. Now that's peace of mind!



**MODEL 102ASB DA (B160446)**



Our super heavy-duty drum style HEPA vac, model 102, sits atop a steel drum to create the ultimate in vacuum recovery capacity. This unit features an unsurpassed 55 gallons of wet recovery capacity and a whopping 7.2 bushels of dry capacity. When the job seems daunting, the 102 Drum model fits the bill. *Drum not included.*

- ¥ 2HP, 2 stage by-pass motor, 11.1 AMPS, 105 waterlift, 110 CFM
- ¥ Louvered head diffuses exhaust air to prevent excessive air disturbance.
- ¥ Complete tool kit; 10 hose, floor brush, metal wand, floor squeegee and round brush
- ¥ 25 foot power cord
- ¥ Vacuum motor warranty 3 years

The 102ASB-12P, is one of our most popular HEPA vacs and a true work-horse for heavy-duty service in professional abatement work. Its 2HP, two-stage, long-life motor provides superior vacuum recovery for everything from dry, light particulates to wet, heavy debris. The standard 102 model features a heavy duty poly tank, and is equipped with a high-efficiency drop-in HEPA filter individually certified to have minimum efficiency of 99.99% at.3 microns (based on 1EST-RP-CC007 particle count test method). For further filtration, a polyester prefilter is located on the bottom of the HEPA filter and is held firmly in place with Velcro fasteners. Additionally, a dacron filter bag (dacron material sheds dust to maintain vacuum efficiency) covers the entire spacer sleeve and HEPA filter for three-stage filtration. In addition our paper bag provides an extra filtering area and is used in trapping and holding the bulk of any recovered material and can be easily disposed (for dry use only).

¥ 2 HP, 2 stage by-pass motor, 11.1 AMPS,  
105 waterlift, 110 CFM

¥ Louvered head diffuses exhaust air to  
prevent excessive air disturbance.

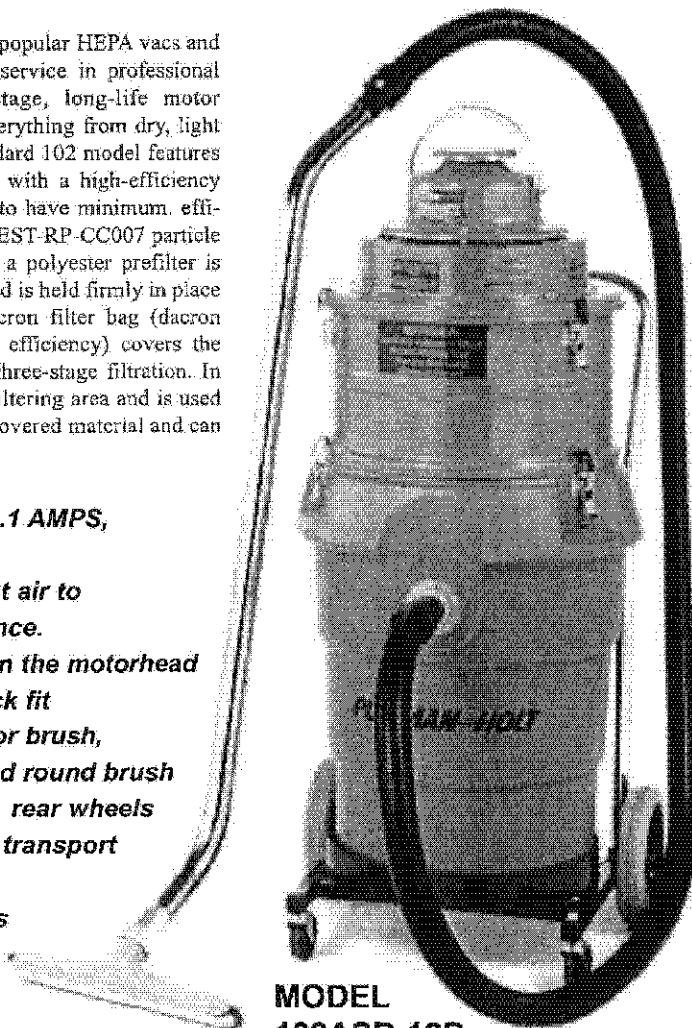
¥ Uses an air seal gasket between the motorhead  
and the tanks for a positive lock fit

¥ Complete tool kit; 10 hose, floor brush,  
metal wand, floor squeegee and round brush

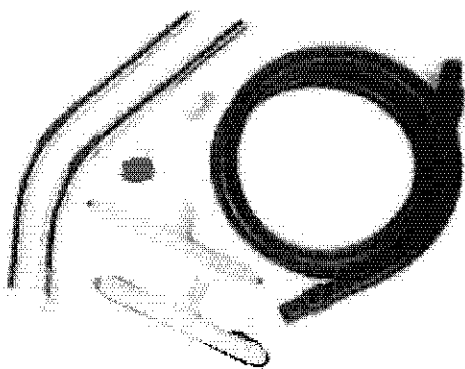
¥ Vacmobile handle and cart w/8 rear wheels  
and 2.5 front casters for easy transport

¥ 25 foot power cord

¥ Vacuum motor warranty 3 years



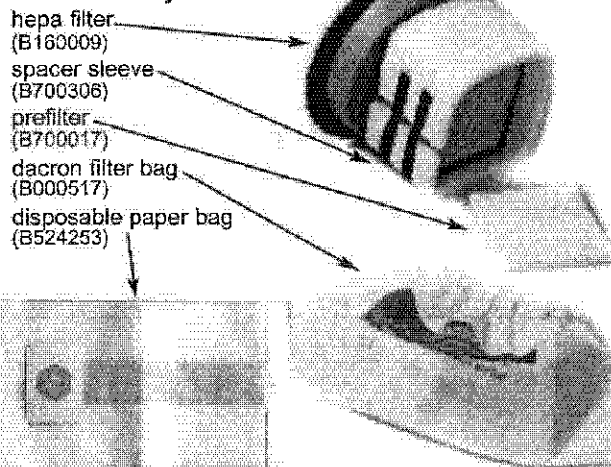
**MODEL  
102ASB-12P  
(B160421)**



**Wet/Dry Tool Kit: (B160056)**

- ¥5 two-piece metal wand (B521007)
- ¥10 x 1.5 crushproof hose (B000311)
- ¥ 14 floor brush tool (B527095)
- ¥ 14 ABS floor squeegee (B527094)
- ¥ Round dusting brush (B000394)

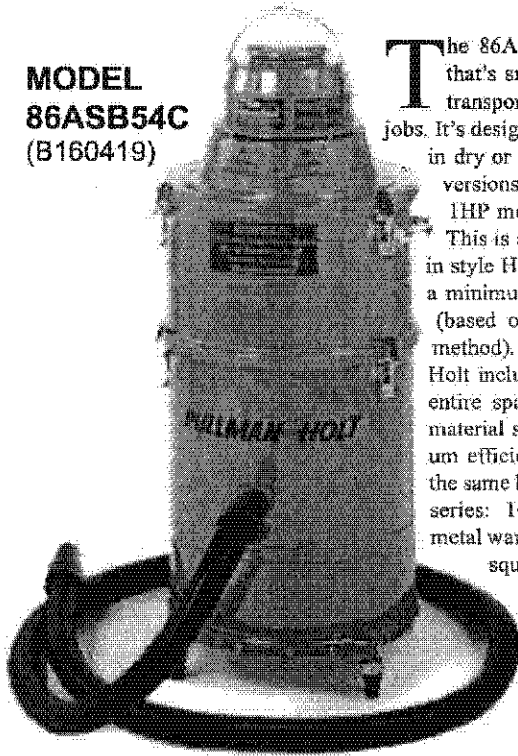
**HEPA filter system**



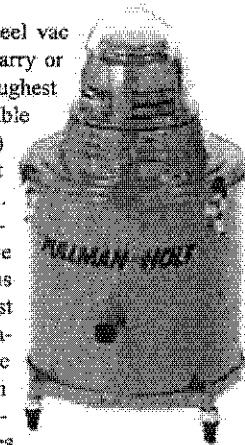
- hepa filter.  
(B160009)
- spacer sleeve  
(B700306)
- prefilter  
(B700017)
- dacron filter bag  
(B000517)
- disposable paper bag  
(B524253)

**Survivors Series**

**MODEL  
86ASB54C  
(B160419)**



The 86ASB dry and wet/dry, is a compact steel vac that's small and light enough to be easy to carry or transport, yet rugged enough to handle the toughest jobs. It's designed to work in tight areas and is available in dry or wet/dry (5-gal. wet recovery capacity) versions. The 86 is powered by an efficient 1HP motor that delivers a respectable 96cfm. This is a high-efficiency unit featuring a drop-in style HEPA filter individually certified to have a minimum efficiency of 99.97% at .3 microns (based on 1EST-RP-CC007 particle count test method). For full three-stage filtration, Pullman-Holt includes a dacron filter bag that covers the entire spacer sleeve and HEPA filter. (Dacron material sheds dust to maintain maximum vacuum efficiency.) And, the model 86ASB includes the same high quality tool kit included with our 102ASB series: 10'x1.5" crushproof hose; 5-foot two-piece metal wand; 14-inch ABS floor brush tool; 14-inch floor squeegee tool (not included with 86ASB5D4C); and a round dusting brush. For ease of use and portability, the 86ASB includes a 25-foot power cord.

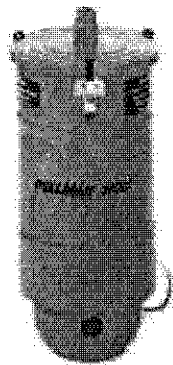
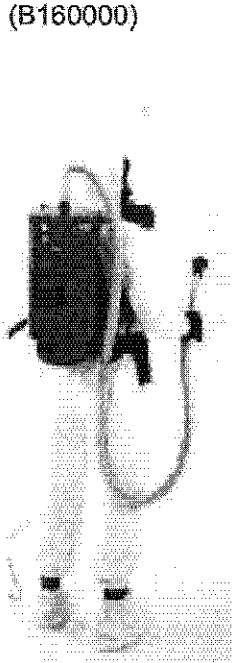


**MODEL  
86ASB5D4C  
(B160420)**

**HEPA filter system**

hepa filter (B526520)	spacer sleeve (B700344)	disposable paper bag (B700408)
prefilter (B527302)	dacron filter bag (B000517)	

**MODEL 30ASB  
(B160000)**



**HEPA filter system**

hepa filter (B700000)
disposable paper bag (B160007)

When it comes to lightweight, portable backpack style vacs, the model 30ASB by Pullman-Holt is the preferred vac. Its 1HP motor delivers an impressive 101cfm. The model 30ASB is ideal for use in elevated or hard-to-reach areas. It makes quick work of sampling or glove bag work. And we've thought of everything when it comes to building power and efficiency right into this model. An air seal gasket between the motor-head and tanks forms a positive lock fit. As with many of our other HEPA vacs, the 30 includes a high-efficiency, drop-in style HEPA filter that is individually certified to have a minimum efficiency of 99.97% at .3 microns (based on 1EST-RP-CC007 particle count test method). The model 30 would not be complete, without its; 10' x 1.5" crushproof hose and round dusting brush. And a 50-foot power cord allows maximum range without relocating the plug to another power source. Consider the model 30ASB for your portable vacuum needs.

**Dry Tool Kit: (B160423)**

- ¥ 10 x 1.5 crushproof hose (B000311)
- ¥ Round dusting brush (B000394)



SERVICES

## BDX II ABATEMENT AIR SAMPLER

*Introducing The BDX II,  
the newest member of Sensidyne's  
Gilian Line. A low cost, high  
performance personal air sampling  
pump for the lead and asbestos  
abatement industry.*



- 0.5 - 3.0 LPM
- Anti-tamper control covers
- Internal components sealed from dust, fibers and moisture
- Easy calibration
- Portable
- Built-in electronic flow control adjustment
- Rechargeable battery pack
- UL approved

800.451.9444

For the first time, the precision of Sensidyne's Gilian line is combined with the durability and economical pricing of BDX products in the BDX II. Designed for lead and asbestos monitoring, its compact, lightweight design is rugged and completely reliable, making it ideal for field applications.

The BDX II accurately monitors for asbestos using the NIOSH Method 7400 or the OSHA reference sampling method. It will also monitor for lead using NIOSH Methods 7082, 7105 or 7300.

## FEATURES

Rugged and dependable construction will withstand the toughest industrial environments.

This pump is made to outlast and outperform larger and more costly pumps.

The built-in rotameter monitors flow rates over the entire flow range of 0.5 - 3.0 LPM.

The electronic flow control adjustment enables parts to last longer.

The rechargeable NiCad battery provides approximately 10 hours of reliable operation on a single charge and easily detaches from the pump body for recharging and/or quick field change.

Sealed flow adjustment and on/off switch protects the pump from moisture, dust and fibers.

## STARTER KIT

A specially designed Starter Kit is available for the BDXTi and includes the pump and accessories, everything needed for accurate and reliable sampling.

Part #801863-120 Starter Kit

## SPECIFICATIONS

### General Specifications

Controls	Power Switch, Flow Control
Flow Indicator	Built-in rotameter, range 500-5000 cc/min, with 500 cc/div @ $\pm 20\%$ Full Scale accuracy
Additional features	See-through external filter housing, with filter monitoring lens; built-in belt clip
Dimensions	3.6" (W) x 3.9" (H) x 2.0" (D) [90 mm (W) x 100 mm (H) x 51 mm (D)]
Weight	21 oz (595 g)

### Power Supply

Battery Pack	4.8 volt, 1.8 amp hour, sealed.
Battery Type	Rechargeable nickel-cadmium
Battery Charge Time	14 - 16 hours
Expected Battery Life**	300-500 charge-recharge cycles or 2.5 years (<20 hours weekly use) 1.5-2.5 years (20-39 hours weekly use) 1-1.5 years (40-60 hours weekly use)

*\*\*Inactivity for extended periods may shorten nickel-cadmium battery life. Battery life estimates are based on proper battery maintenance.*

## OPERATING SPECIFICATIONS

Operating Range	500-3000 cc/min (0.5-3.0 LPM)
Flow Control	$\pm 5\%$ of set point over an 8-hour period, when operating at 2.0 LPM.
Operating Duration (Full Charge)	10 hours at 2.0 LPM, with an inlet pressure of up to 20 inches of water at 21°C (70°F)
Operating Temperature	-20°C to 45°C (-4°F to 113°F)
Storage Temperature	-40°C to 45°C (-40°F to 113°F)
Charging Temperature	5°C to 45°C (41°F to 113°F)

# SENSIDYNE

Sensidyne manufactures, supplies, and services gas detection systems and air sampling pumps that are characterized by their ease of use, accuracy, economical cost and durability.

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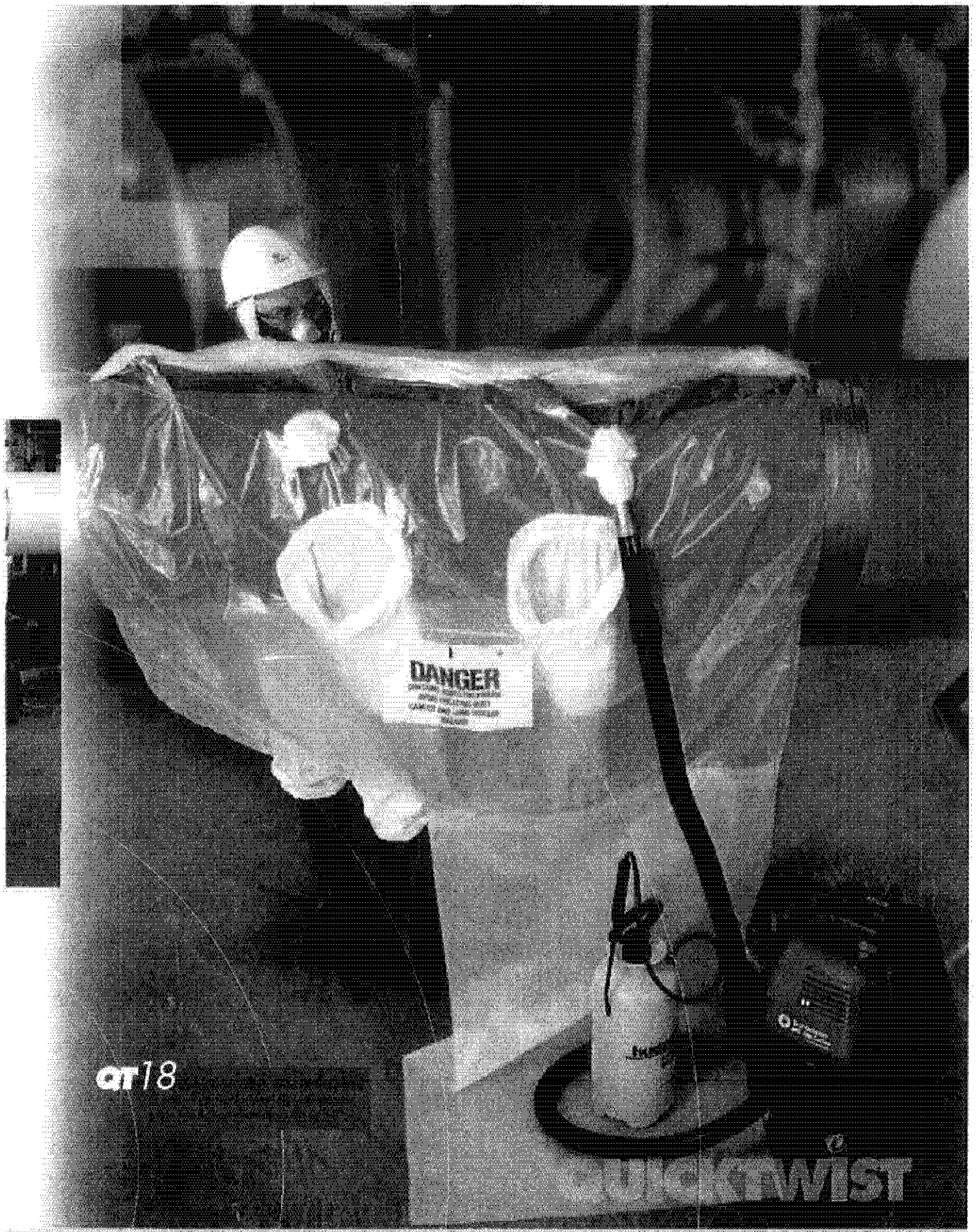




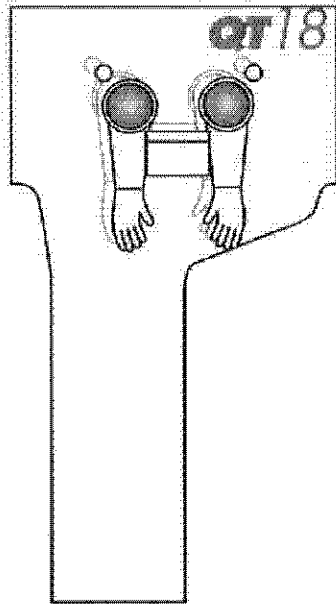
**Grayling**

**6072**

# *AVALL Standard Glovebag System for Long and Short Pipe Runs*

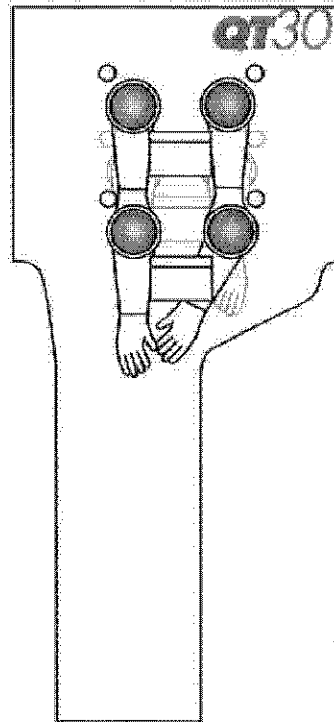


at18



**QT18**

Large pipe diameters from 14" to 18" are no problem for this QT18 model. Two sets of glovesleeves let the worker easily reach and remove pipe insulation. This bag is a direct replacement of the 6684 style glovebag.



**QT30**

This super-sized AVAIL model handles pipe diameters from 18" to 30" and directly replaces the 72120. Ideal for larger pipes, valves and fittings where more work area is required. Three sets of glovesleeves let workers remove insulation on large diameter pipe.



The **QuickTwist 1-2-3** debris chamber makes it easy for workers to securely and safely separate debris laden bags from pipe. The new design incorporates a narrower and taller waste area so that less bunching is required to twist close the glovebag. After waste is funneled into the chamber, the worker easily twists it closed at the top and tapes the neck to prevent escape of dangerous fibers.

