



**HONEYWELL NORTH® AIR-FED SUITS**

# Honeywell North Air-Fed Suits

## Integrated Respiratory Protection and Protective Clothing

Honeywell Industrial Safety offers a complete range of air-fed suit products specifically designed to protect workers against hazards in nuclear, chemical, pharmaceutical and biological environments.

## Our Ventilated Solutions

The complete range of ventilated suits and hoods provides full protection for the worker, while allowing him to move freely. Benefiting from a high level of protection and less thermal stress while in action, professionals choose Honeywell as a partner for high-risk operations: protection against radioactive particles during shut-downs or maintenance operations in nuclear plants, handling chemical compounds in pharmaceutical industries, research on viruses in BSL4 laboratories. With respiratory protection integrated directly into the protective suit, the Honeywell North Air-Fed suits are the ideal solution for a range of applications.



## Air-Fed Suit Protection Factor (PF)

The Protection Factor is the measurement of the concentration between the inside and outside of the protective suit (using NaCL solid particles 1/3 µm). When the PF is greater than 2000, only one particle is likely to penetrate the suit.

The Mururoa™ BLU suit is a Class 4 suit with a Protection Factor > 20,000.

The following suits are Class 5 suits with a Protection Factor > 50,000:

- Mururoa BP
- Mururoa V4F1
- Mururoa MTH2
- Hapichem
- BLS 4

## EN Standards and Approvals

All the nuclear equipment is in Category 3 (protection against serious or fatal hazards)



- **EN 14605: 2005 / A1: 2009** Protective clothing against liquid chemicals. Performance requirements for clothing with liquid-tight (Type 3) or spray-tight (Type 4) connections, including items providing protection to parts of the body only.



- **EN 1073-1: 1998** Protective clothing against radioactive contamination: Requirements and test methods for ventilated protective clothing against particulated radioactive contamination.



- **EN 1149-5: 2008** Antistatic: Electrostatic protection when correctly earthed.



- **ELECTROSTATIC-INERIS:** Volunteer certification intended to ensure the safety of certain equipment (hoses, filters, etc.) and Personal Protective Equipment (PPE) with electrostatic risks because used in Atex area (EN13463-1 :2009). ATEX certified (Group IIIA, IIIB, IIIC, dust zones 21 and 22).

- **EUROPEAN DIRECTIVE:** 89/686/EEC

- **NF EN 14594** Continuous flow compressed air line breathing apparatus (Respiratory protective devices).

- **EN 12941** Respiratory protective devices, powered filtering devices incorporating a hood.

- **EN 92507** Protection against the propagation of flames\*

\* Does not protect against flames - Limited burning if it catches fire - Not for use in the event of fire.



# Honeywell North Air-Fed Suits Offerings

The chart below shows the Honeywell North Air-Fed suit line. The offering includes six (6) different suits designed to meet various needs.



**Mururoa BP**

- Low pressure air networks
- Chemical splash
- Standard work environments

**Page 5**



**Mururoa V4F1**

- High pressure air networks
- Chemical splash
- Standard work environments

**Page 6**



**Mururoa MTH2**

- Nuclear work environments
- Environment-friendly materials for disposal

**Page 7**



**Hapichem**

- High chemical resistance
- Antistatic and chemical environments

**Page 8**



**BSL 4**

- Biological environments

**Page 9**



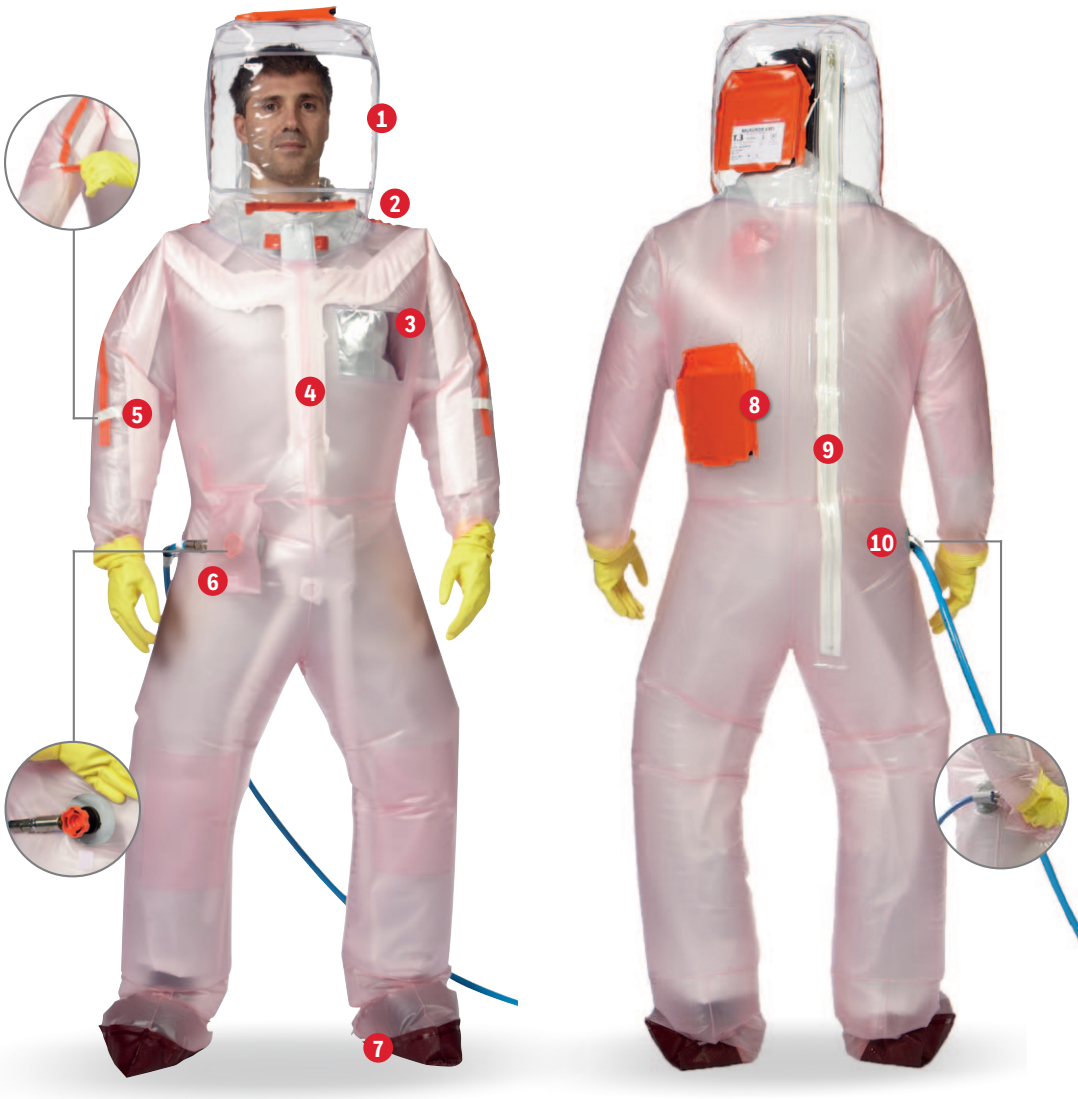
**Mururoa BLU**

- Integrated Powered Air Purifying Respirator (PAPR)
- Chemical splash
- Standard work environments

**Page 10**

# Honeywell Air-Fed Suit Design

Each suit has its own unique features ideal for different applications, but the basic suit design is similar for the entire offering. See chart below for all standard suit features.



- 1 Excellent field of vision (360°).**  
Transparent hood & optical quality visor
- 2 Safety strip.** Easy suit opening in the event of insufficient air supply inside the suit
- 3 Dosimeter window.**  
Easy dosimeter reading in environments where necessary
- 4 Air distribution network.**  
Allows air to circulate inside the suit for maximum comfort while reducing dead spaces of air
- 5 Undressing strip.** Reduces the risk of contamination and makes removal quicker
- 6 Adjustable supply valve.**  
Easy adjustment of air flow
- 7 Reinforced protection at feet level.** Under-foot antiskid booties and /or laces to tie booties
- 8 Exhaust Valve.** Expels used air out and delivers positive pressure
- 9 Double back zipper.**  
Reinforced zipper for tight seal and fit
- 10 Hose loop on the side.**  
Air supply hose designed to loop on side of worker

Protecting the whole body while offering respiratory protection

Protection Factor*	Protection of the BODY	Standard single use coverall	Liquid tight coverall	Ventilated coverall
			50	2,000
	Protection of the AIRWAYS	Mask & filter	PAPR & filter	Ventilated hood

\* Nominal Protection factor: Number of 0,3 µm particles outside to 1 particle inside the PPE

# Mururoa™ BP

Ventilated suit adapted for low pressure air networks

**Composition:**  
Pink PVC 20/100<sup>th</sup>  
flame retardant M1



## USES

- Designed for use on low pressure air networks (30 psig - 55 psig), in environments where full body and respiratory protection is required
- Single-use clothing
- Applications: radioactive particles, maintenance, pharmaceutical manufacturing, dismantling, asbestos removal, or chemical

## FEATURES

- PF > 50,000
- Class 5: EN1073-1
- Air Flow Range: 250 to 850 l/min
- Durable, natural PVC material is resistant to abrasion, piercing, and tearing; flame retardant **1**
- Vertical double seal with overlap at the top to secure the closure
- Patented exhaust with magnetic valve ensures protection for workers to operate in low pressure and enables decontamination procedures **2**
- PVC gloves welded onto suit **3**

## COMFORT

- Complete body air distribution increases comfort with ventilation throughout head, arms and legs **4**
- Air flow rate can be adjusted individually for personal comfort **5**

## OPTIONS

- HEPA filter offers reinforced protection during air supply connections
- Harness sleeve in front or back of the suit

### SIZING CHART

Suit Size	Waist	Height	Glove
0	40	5'0"-5'3"	8
1	46	5'3"-5'5"	8
2	46	5'5"-5'8"	9
3	47	5'8" - 5'11"	9
3XXL	63	5'8" - 5'11"	9
4	47	5'11" - 6'2"	9
4XXL	63	5'11" - 6'2"	10
5	54	6'2" - 6'7"	10
5XXL	63	6'2" - 6'7"	10
6	63	6'6" and up	10
7	63		

### ORDERING INFORMATION

Part Number	Description
CC8471032	Air-Fed suit, MURUROA BP, incl. 6150B Hansen male plug, Size T02
CC8471033	Air-Fed suit, MURUROA BP, incl. 6150B Hansen male plug, Size T03
CC8471034	Air-Fed suit, MURUROA BP, incl. 6150B Hansen male plug, Size T04
CC8471035	Air-Fed suit, MURUROA BP, incl. 6150B Hansen male plug, Size T05
CC8471038	Air-Fed suit, MURUROA BP, incl. 6150B Hansen male plug, Size T04XXL
CC8471039	Air-Fed suit, MURUROA BP, incl. 6150B Hansen male plug, Size T05XXL

# Mururoa™ V4F1

## Ventilated protective suit

### Composition:

Pink PVC 20/100<sup>th</sup>  
flame retardant M1



EN 1073-1



NFP 92507\*



## USES

- Designed for use on breathable air networks (65 psig - 80 psig), contaminated by radioactive particles, where full body and respiratory protection is required
- Single use clothing
- Applications: maintenance, fuel life cycle, or dismantling

## FEATURES

- PF > 50,000
- Class 5: EN1073-1
- Air Flow Range: 450 to 1150 l/min
- Two patented exhalation valves provide overpressure inside the suit **1**
- Elbow and knee reinforcement offer enhanced protection for demanding environments **2**
- Optional Low Pressure Warning Device (LPWD / AP) in the event of insufficient air supply inside the suit
- PVC gloves welded onto suit **3**

## COMFORT

- Complete body air distribution increases comfort with ventilation throughout head, arms and legs **4**
- Air flow rate can be adjusted individually for personal comfort **5**

## OPTIONS

- HEPA filter offers reinforced protection during air supply connections
- Harness sleeve in front or back of the suit

## ORDERING INFORMATION

Part Number	Description
CC8481411	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T01
CC8481412	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T02
CC8481413	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T03
CC8481414	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T04
CC8481418	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T04XXL, Glove Size T10
CC8481415	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T05, Glove Size T10
CC8481419	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T05XXL, Glove Size T10
CC8481411-GT09	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T01, Glove size T09
CC8481417	Air-Fed suit, MURUROA V4F1, Glove Size T10, incl. Cejn male plug, Size T3XXL
CC8481417-GT09	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T03XXL, Glove Size T09
CC8481414-GTS10	Air-Fed suit, MURUROA V4F1, incl. Cejn male plug, Size T04, Glove Size T10

## SIZING CHART

Suit Size	Waist	Height	Glove
0	40	5'0"-5'3"	8
1	46	5'3"-5'5"	8
2	46	5'5"-5'8"	9
3	47	5'8" - 5'11"	9
3XXL	63	5'8" - 5'11"	9
4	47	5'11"-6'2"	9
4XXL	63	5'11"-6'2"	10
5	54	6'2"-6'7"	10
5XXL	63	6'2"-6'7"	10
6	63	6'6" and up	10
7	63		



# Mururoa™ MTH2

Ventilated suit adapted for cold environments

**Composition:** Non-flammable Polyethylene EVA (24/100 mm)



## USES

- Designed for use in cold areas on breathable air networks (65 psig – 80 psig)
- Ventilated-pressurized suit, EN approved for protection against radioactive contamination in nuclear enclosures or in any environment where complete body and respiratory protection is necessary
- Single-use clothing
- Applications: fuel life cycle, dismantling, or asbestos removal

## FEATURES

- PF > 50,000
- Class 5: EN1073-1
- Air Flow Range: 500 to 1070 l/min
- Durable EVA material is
  - resistant to abrasion, perforation, and tearing
  - flame retardant
  - totally incinerable for disposal (low halogen rates)
  - made to withstand cold environments **1**
- Reinforced knees and elbows for abrasion protection **2**
- Vertical double seal with overlap at the top to secure the closure
- Two patented exhaust valves (helmet & back) ensure protection for workers **3**
- Double layer EVA foot ties with PVC laces and optional boot flaps provide reinforced protection at the feet level **4**
- Valve flap for work requiring reinforced protection **5**
- PVC gloves welded onto suit **6**

## COMFORT

- Complete body air distribution increases comfort with ventilation throughout head, arms and legs **7**
- Air flow rate can be adjusted individually for personal comfort **8**

## OPTIONS

- HEPA filter offers reinforced protection during air supply connections
- Harness sleeve in front or back of the suit

## ORDERING INFORMATION

Part Number	Description
CC8414422-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T02
CC8414422-XXL-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T02XXL
CC8414423-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T03
CC8414427-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T03XXL
CC8414424-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T04
CC8414428-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T04XXL
CC8414425-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T05
CC8414429-US	Air-Fed suit, MURUROA MTH2, incl. Cejn male plug, Size T05XXL

## SIZING CHART

Suit Size	Waist	Height	Glove
0	40	5'0"-5'3"	8
1	46	5'3"-5'5"	8
2	46	5'5"-5'8"	9
3	47	5'8" - 5'11"	9
3XXL	63	5'8" - 5'11"	9
4	47	5'11"-6'2"	9
4XXL	63	5'11"-6'2"	10
5	54	6'2"-6'7"	10
5XXL	63	6'2"-6'7"	10
6	63	6'6" and up	10
7	63		

# HAPICHEM™

## Chemical resistant and antistatic suit

**Composition:** Non woven laminated with a high barrier film. PET visor



EN 1073-1



### SIZING CHART

Suit Size	Waist	Height	Glove
0	40	5'0"-5'3"	8
1	46	5'3"-5'5"	8
2	46	5'5"-5'8"	9
3	47	5'8" - 5'11"	9
3XXL	63	5'8" - 5'11"	9
4	47	5'11" - 6'2"	9
4XXL	63	5'11" - 6'2"	10
5	54	6'2" - 6'7"	10
5XXL	63	6'2" - 6'7"	10
6	63	6'6" and up	10
7	63		

### USES

- Designed for environments where the air is polluted with solid and liquid particles and where full body respiratory protection is required
- Suit compatible with low pressure (45 psig - 65 psig) breathable air networks
- Applications: chemical, pharmaceutical, maintenance, dismantling, or asbestos removal

### FEATURES

- PF > 50,000 / Class 5: EN1073-1 / Air Flow Range: 300 to 730 l/min
- Visor provides large viewing area and high chemical protection **1**
- Horizontal double zip seal closure in front of suit adds protection and allows for easy donning without the need for help **2**
- Patented back airflow allows the worker to sit or kneel without risk of over pressure
- Patented exhaust valves ensures protection for workers **3**

### COMFORT

- Complete body air distribution increases comfort with ventilation throughout head, arms and legs
- Air flow rate can be adjusted individually for personal comfort **4**

### OPTIONS

- Three sole options (standard, anti-skid, anti-static) **5**
- Hanging loop to hang suits

### ORDERING INFORMATION

Part Number	Description
CC94804021	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T1
CC94804022	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T2
CC94804022-XL	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T2XL
CC94804023	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T3
CC94804024	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T4
CC94804025	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T5
CC94804026	Chemical air-fed suit, anti-slip, glove interface,* Cejn plug, Size T6
CC94804031	Chemical air-fed suit, anti-static, glove interface,* Cejn plug, Size T1
CC94804032	Chemical air-fed suit, anti-static, glove interface,* Cejn plug, Size T2
CC94804033	Chemical air-fed suit, anti-static, glove interface,* Cejn plug, Size T3
CC94804034	Chemical air-fed suit, anti-static, glove interface,* Cejn plug, Size T4
CC94804035	Chemical air-fed suit, anti-static, glove interface,* Cejn plug, Size T5
CC94804036	Chemical air-fed suit, anti-static, glove interface,* Cejn plug, Size T6
CC94804011	Chemical air-fed suit, standard booties, glove interface,* Cejn plug, Size T1
CC94804012	Chemical air-fed suit, standard booties, glove interface,* Cejn plug, Size T2
CC94804013	Chemical air-fed suit, standard booties, glove interface,* Cejn plug, Size T3
CC94804014	Chemical air-fed suit, standard booties, glove interface,* Cejn plug, Size T4
CC94804015	Chemical air-fed suit, standard booties, glove interface,* Cejn plug, Size T5
CC94804015-XL	Chemical air-fed suit, standard booties, glove interface,* Cejn plug, Size T5XL

\*Glove sold separately



# BSL 4

## Ventilated suit for biological environment

**Composition:** Non-flammable Polyethylene EVA (24/100 mm)



### USES

- Designed for Bio Safety Level 4 Laboratories or for environments where there is a high risk of biological or particulate contamination
- Design for use on breathable air networks (65 psig - 80 psig)
- Reusable clothing
- Applications: bio labs, chemical, oil and gas, or pharmaceutical

### FEATURES

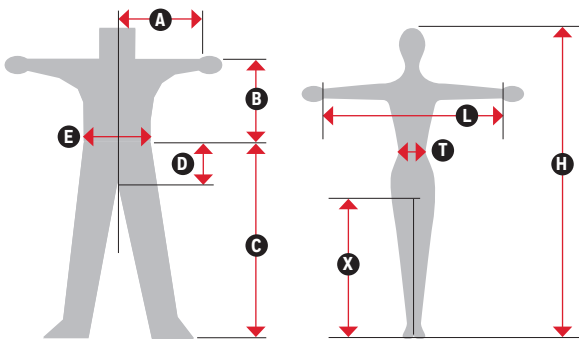
- PF > 50,000
- Class 5: EN1073-1
- Air Flow Range: 470 to 950 l/m
- Durable, natural PVC material is resistant to abrasion, piercing, and tearing
- Vertical double seal with overlap at the top to secure the closure
- Patented exhaust with magnetic valve ensures protection for workers
- Four (4) hanging loops to hang suits in between uses
- Convenient inside pocket for holding voice communication devices (communication devices not included)

### COMFORT

- Custom-made to individual size measurements for optimal comfort and fit
- Complete body air distribution increases comfort with ventilation throughout head, arms and legs
- Low noise; less than 70 dB
- Air flow rate can be adjusted individually for personal comfort
- Sleeve cuffs available in large or small for better customized fit
- Integrated glove ring for securing gloves in place

### OPTIONS

- Boot options include welded sealed safety boots or welded safety booties



### BSL 4 SIZING CHART

Size	A	B	C	D	E	H	L	T	X
Users Size (Inches)									
1	28	22	32	14	24	5'1"-5'5"	49 > L > 53	< 38	28
1 XL	28	22	32	14	26	5'1"-5'5"	49 > L > 53	> 38	29
2	30	23	34	14	24	5'6"-5'9"	51 > L > 55	< 38	30
2 XL	30	23	34	14	26	5'6"-5'9"	51 > L > 55	> 38	31
3	33	24	35	14	24	5'8"-5'11"	57 > L > 61	< 38	32
3 XL	33	24	35	15	28	5'8"-5'11"	57 > L > 61	> 38	32
4	33	25	39	14	24	5'11"-6'2"	59 > L > 63	< 38	35
4 XL	33	25	39	15	28	5'11"-6'2"	59 > L > 63	> 38	35
5	34	26	41	14	25	6'2"-6'7"	61 > L > 65	< 38	37
5 XL	34	26	41	15	30	6'2"-6'7"	61 > L > 65	> 38	37

### ORDERING INFORMATION

Contact a Honeywell representative for more information on part numbers and sizing.

# Mururoa™ BLU

## Ventilated suit supplied with a Powered Air Purifying Respirator

**Composition:**  
Pink PVC 20/100<sup>th</sup>  
flame retardant M1



### USES

- Ventilated suit supplied with an integrated PAPR blowing unit and EN approved for protection against radioactive contamination and chemical solid particles
- Designed to be used in nuclear enclosures or in any environment where complete body and respiratory protection is necessary
- Integrated PAPR unit provides respiratory protection in the suit, eliminating the need for hoses and supplied air sources
- Adapted for environments where:
  - Mobility is required
  - There are no breathing networks
  - The air network is too far away or too difficult to access
- Single-use clothing
- Applications: maintenance, dismantling, asbestos removal, chemical, pharmaceutical, or industrial

### FEATURES

- PF > 50,000 / Class 5: EN1073-1 / Air Flow Range: 400 to 600 l/min
- Reinforcements on knee, elbow and crotch for enhanced abrasion resistance **1**
- Vertical double seal with overlap at the top to secure the closure **2**
- Patented exhaust valves (helmet and back) to ensure protection for workers **3**
- PVC gloves welded onto suit **4**

### COMFORT

- Complete body air distribution increases comfort with ventilation throughout head, arms and legs **5**
- Air flow rate can be adjusted individually for personal comfort

### SIZING CHART

Suit Size	Waist	Height	Glove
0	40	5'0"-5'3"	8
1	46	5'3"-5'5"	8
2	46	5'5"-5'8"	9
3	47	5'8" - 5'11"	9
3XXL	63	5'8" - 5'11"	9
4	47	5'11"-6'2"	9
4XXL	63	5'11"-6'2"	10
5	54	6'2"-6'7"	10
5XXL	63	6'2"-6'7"	10
6	63	6'6" and up	10
7	63		

### ORDERING INFORMATION

Part Number	Description
CC8484961	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T01
CC8484961-XL	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T01XXL
CC8484962	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T02
CC8484962-XL	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T02XXL
CC8484963	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T03
CC8484968	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T03XXL
CC8484964	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T04, Glove T09
CC8484964-GT10	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T04, Glove T10
CC8484969	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T04XXL
CC8484965	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T05
CC8484967	Air-Fed suit, PAPR, MURUROA ETHYFUGE, Size T05XXL
1786000-H5	HEPA Filter, BLU PAPR
CC0327696	PAPR Blower Unit Kit, BLU-Type suit
CC0327620	PAPR Battery Pack for BLU-Type suit
CC0327610	Charger, for PAPR Battery
CC0327640	Air Flow Meter, PAPR
CC0312120	Protective Shower Cap for PAPR Cartridge
CC0327671	Cap for PAPR pouch, BLU suits

# Airline Hoses and Coupler Assemblies

for use with Honeywell Air-Fed Suits

## COUPLE ASSEMBLIES TO CONNECT BREATHING TUBE TO AIRLINE

COUPLER BRAND	FOR 3/8" I.D. HOSE	FOR 1/2" I.D. HOSE
CEJN	88600C	88800C
FOSTER	88600F	88800F
HANSEN	88600H	88800H
SCHRADER	88600S	88800S
SNAP-TITE	88600ST	88800ST

NOTE: Coupler assembly includes one male plug and one female coupler

## AIRLINE HOSES

HOSE LENGTH	FOR 3/8" I.D. HOSE	FOR 1/2" I.D. HOSE
25 FOOT	996025	998025
50 FOOT	996050	998050-H5
100 FOOT	996100	998100

NOTE: Do not use quick connect couplers to connect multiple Honeywell hose lengths

## MALE PLUGS TO CONNECT AIRLINE HOSE TO AIR SOURCE

COUPLER BRAND	FOR 3/8" I.D. HOSE	FOR 1/2" I.D. HOSE
CEJN	880141C	880161C
FOSTER	880141F	880161F
HANSEN	880141H	880161H
SCHRADER	880141S	880161S
SNAP-TITE	880141ST	880161ST





**For more information**

Technical Service: 800.873.5242

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