



SENTINEL XT™ CLEAR HOOD AND SENTINEL XT CLEAR PLUS™ HOOD PAPR SYSTEMS FOR HAZARDOUS LOCATIONS

MODEL NO. S-3320 USER INSTRUCTION MANUAL





CL I, II, III, Div 2 G: C,D,E,F,G T5 Ta=43°C (109°F)



A WARNING

IMPROPER USE OF THIS HOOD AND RESPIRATOR MAY RESULT IN PERSONAL INJURY OR DEATH. IMPROPER USE INCLUDES, BUT IS NOT LIMITED TO, USE IN ATMOSPHERES CONTAINING UNKNOWN CONTAMINATES AND/OR UNKNOWN CONCENTRATIONS OF CONTAMINANTS, USE WITHOUT ADEQUATE TRAINING, DISREGARD OF THE WARNINGS AND INSTRUCTIONS CONTAINED HEREIN AND FAILURE TO INSPECT AND MAINTAIN THIS RESPIRATOR.

THE HOOD AND RESPIRATOR ARE NOT INTENDED FOR USE IN ATMOSPHERES WHERE THE IDENTITY AND/OR CONCENTRATION OF THE CONTAMINANT IS UNKNOWN. THIS MAY RESULT IN IMMEDIATE DANGER TO PERSONNEL.

THIS HOOD AND RESPIRATOR DO NOT SUPPLY OXYGEN AND MUST NOT BE USED IN OXYGEN DEFICIENT ATMOSPHERES CONTAINING LESS THAN 19.5% OXYGEN.

A WARNING

TRAINING IS REQUIRED BEFORE USE OF THIS HOOD AND RESPIRATOR. FOLLOW THESE INSTRUCTIONS CAREFULLY. THIS POWERED AIR PURIFYING DEVICE IS ONLY FOR USE IN SPECIFIC ATMOSPHERES AND UNDER CERTAIN CONDITIONS. USE OF THIS RESPIRATOR WITHOUT PROPER TRAINING COULD RESULT IN SERIOUS INJURY OR DEATH.

∆ WARNING

SUBSTITUTION OF ANY COMPONENTS MAY IMPAIR SUITABLITY FOR DIVISON 2.

∆ WARNING

DO NOT REMOVE OR REPLACE BATTERY WHILE SYSTEM IS RUNNING OR WHEN A FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT.

Δ WARNING

DO NOT CHANGE BATTERY IN A DIVISION 2 LOCATION.

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DESCRIPTION

The ILC Dover SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEMS are blower-assisted air-purifying respirators known as Powered Air Purifying Respirators or PAPRs. The SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEMS are comprised of the following components:

1. Option A: Sentinel XTTM Clear Hood, Sentinel XTTM Clear Hood, one size fits all P/N S-3112

The Sentinel XTTM Clear Hood is a loose fitting hood consisting of spun bond top and rear panels, and a large optically clear plastic visor. The hood has an inner skirt capable of being tucked into a single suit configuration. The outer skirt is used to secure the hood to the upper torso of the user through the use of four (4) clips.

Option B: Sentinel XT CLEAR PLUS™ Hood, one size fits all P/N S-3324

The Sentinel XT CLEAR PLUSTM HOOD is a loose fitting hood consisting of spun bond top and rear panels, and a large optically clear plastic visor. The hood has an inner skirt capable of being tucked into a single suit configuration. The outer skirt is used to secure the hood to the upper torso of the user through the use of adhesive strips.

Option C: Sentinel XT CLEAR TM Hood With Neck Cuff, one size fits all P/N S-3701.

The Sentinel XT CLEARTM HOOD is a loose fitting hood consisting of spun bond top and rear panels, and a large optically clear plastic visor. The hood has a "neck cuff" instead of an inner skirt, facilitating easier donning of the product. The outer skirt is used to secure the hood to the upper torso of the user through the use of four (4) clips.

2. Blower P/N S-3315

The blower is comprised of an electrical motor that drives an air blower. An on/off switch is located on top of the blower with a deconable cap protecting the switch. A red LED near the on/off switch at the top indicates when the blower is on. There is one male thread at the blower top to connect the breathing tube. There are three female threaded inlets with rubber gaskets at the blower sides. Upon starting the blower, the red LED will light and a buzzer will sound one short beep followed by continuous

LED light and no sound. This indicates that the blower is functioning correctly. The blower is equipped with an audio-visual low voltage alarm indicating that battery voltage has dropped. Alarm is given by blinking LED and successive buzzer beeps. Alarm sound is well heard within the hood. Once the low voltage alarm has started, the user must exit the contaminated area.

3. LiPolymer (LiPo) Battery Pack P/N S-3316

The Sentinel XTTM LiPo battery pack provides a rechargeable power source for the blower and is integrated to the blower assembly by hinged connection at the base of the blower and a latch at the top of the blower. A fuel gauge is available to display the battery life before use. A secure latch that requires the use of a tool to remove from blower is required for use in Div 2 locations.

4. Cartridge P/N S-4002

ILC Dover **SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems** utilize two **HE** cartridges. The third blower inlet must be plugged securely with the blower plug, P/N S-4006 of flat plug S-4007.

5. Cartridge P/N S-4012 (Optional)

The ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems alternative filter option utilizes three Organic Vapor/Chlorine Dioxide/Chlorine/Hydrogen Chloride/Hydrogen Fluoride/Sulfur Dioxide/High Efficiency Particulate Air cartridges.

6. Cartridge P/N S-2027 (Optional)

The ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems alternative filter option utilizes three Chlorine/Hydrogen Chloride/Sulfur Dioxide/Chlorine Dioxide/Ammonia/Methylamine/Formaldehyde/High Efficiency Particulate Air cartridges.

7. Comfort Belt P/N S-3104

This is a comfortable blower mounting option that allows quick and easy attachment or removal of the blower from the belt using clip-on mounting feature. The belt offers easy access to the battery for installation and removal for charging. Also facilitates the easy cleaning/disinfecting of biological materials from the belt using standard cleaning or disinfecting materials. Note: Do not use autoclave or other high temperature sterilization methods.

8. Back Harness P/N S-3105

The back harness is a very comfortable alternative and supports the blower assembly on the user's back, better distributing the system's weight on the user's body. The back harness uses the same quick and easy attachment and removal mechanism as the comfort belt, using a clip-on mounting feature. The back harness offers easy access to the battery for installation and removal for charging. The back harness also facilitates the easy cleaning/disinfecting of biological materials using standard cleaning or disinfecting materials. Note: Do not use autoclave or other high temperature sterilization methods.

9. DeconQuick Release Belt and Clip P/N S-4011 (Optional)

This is a blower mounting option that allows quick and easy attachment or removal of the blower from the belt. This also facilitates the easy cleaning/disinfecting of biological materials from the belt using standard cleaning or disinfecting materials. **Note:** Do not use autoclave or other high temperature sterilization methods.

10. Breathing Tubes P/N S-3109 (33"), P/N S-3110 (25"), P/N S-3508 (19")

The breathing tubes connect the blower unit to the hood for use in supplying air from the blower to the hood. Large and small lengths are available for the comfort belt and back harness configurations.

11. LiPo Battery Charger P/N S-3107 and Charging Cradle P/N S-3106; optional multi position power cord S-2030

The charger combined with the cradle recharges the LiPolymer Battery Pack in approximately 5 hours. The optional multi position power cord allows multiple charging cradles to be used simultaneously.

12. Flow Meter P/N S-2010

The flow meter is used to check the ability of the blower to provide sufficient air flow to the hood. The air flow must be checked before each use.

13. Blower Plug P/N Standard S-4006 (with knob); or Alternate Blower Flat Plug P/N S-4007 with Installation and Removal Tool P/N S-4008

The blower plug is required for the HE Particulate Cartridge configuration.

14. Breathing Tube and Blower Covers P/N S-3102 and S-3103

The breathing tube and blower cover are used to protect the breathing tube and blower.

15. Secure Latch P/N S-3009

If the blower is accidently dropped in a hazardous location the secure latch will ensure the battery will not disconnect from the blower.

16. Sentinel XTTM User Instruction Manual P/N S-3314

Reference document to illustrate how to operate, don, and maintain the PAPR system.

Δ WARNING

FOLLOW THESE INSTRUCTIONS CAREFULLY. THIS POWERED AIR PURIFYING DEVICE IS ONLY FOR USE IN SPECIFIC ATMOSPHERES AND UNDER CERTAIN CONDITIONS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAREFULLY COULD RESULT IN SERIOUS INJURY OR DEATH.

GENERAL SAFETY INFORMATION

Intended Use

The ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems can be used as a belt mounted blower unit, connected to the hood via a flexible breathing tube or as a back harness mounted blower unit connected to the hood via a flexible breathing tube. The ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems must be combined with the appropriate cartridges and battery pack. The ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems are intended to provide respiratory protection against certain particulate contaminants and/or Organic Vapors, Acid Gases, depending on the selected cartridge.

Note: Inspect emergency use respirators on a monthly basis.

A WARNING

THIS HOOD AND RESPIRATOR HELP PROTECT **AGAINST** CERTAIN AIRBORNE CONTAMINANTS AND/OR ORGANIC VAPORS, ACID GASES. MISUSE MAY RESULT IN INJURY OR DEATH. FOR PROPER USE. SEE SUPERVISOR. USER INSTRUCTIONS, OR CALL ILC DOVER TECHNICAL SERVICE AT (800) 631-9567. USE ONLY ILC DOVER PARTS AND ACCESSORIES FOR THE ILC SENTINEL XTTM PAPR SYSTEM AS DESCRIBED IN THESE USER INSTRUCTIONS.

ALWAYS DON THE HOOD AND RESPIRATOR SYSTEM

PROPERLY AND IN AN UNCONTAMINATED AREA.

DO NOT REACH YOUR HAND INTO THE HOOD IN AREAS WHERE THE AIR IS CONTAMINATED. LEAVE THE CONTAMINATED AREA AND CLEAN CONTAMINANTS FROM YOUR HANDS BEFORE REACHING INSIDE THE HOOD.

IF YOU DISCOVER ANY OF THE WEAR AND DAMAGE DESCRIBED IN THE TROUBLESHOOTING SECTION OF THIS USER INSTRUCTION, DISCARD COMPONENT AND REPLACE IT WITH A NEW ONE. FAILURE TO DO SO MAY ADVERSELY AFFECT HOOD AND RESPIRATOR PERFORMANCE AND RESULT IN SICKNESS AND DEATH.

BEFORE USE, THE WEARER MUST READ AND FULLY UNDERSTAND THESE USER INSTRUCTIONS. KEEP THIS INSERT FOR FUTURE REFERENCE. IF YOU HAVE ANY DOUBTS ABOUT THE APPLICABILITY OF THIS HOOD AND RESPIRATOR SYSTEM TO YOUR JOB SITUATION, CONSULT AN INDUSTRIAL HYGIENIST OR CALL ILC DOVER TECHNICAL SERVICE.

Use the ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems for:

Respiratory protection against certain particulate contaminants and/or Organic Vapors, Acid Gases, depending on the selected cartridge. Division 2 locations as specified on cover page.

Never use the ILC Dover SENTINEL XTTM Clear Hood and SENTINEL XT CLEAR PLUSTM HOOD PAPR Systems for:

Atmospheres where oxygen concentration is below 19.5%, where concentrations of contaminants are: unknown; immediately dangerous to life or health (IDLH); exceed applicable local standards or OSHA standards for maximum use concentrations for the respirator; whichever is lower. Refer to additional limitations and cautions under NIOSH Cautions and Limitations. Division 1 locations or other locations not specified on cover page.

Respirator Selection and Training

Δ WARNING

THIS RESPIRATOR IS INTENDED TO BE USED ONLY IN ORGANIZED CONJUNCTION WITH ANRESPIRATORY PROTECTION PROGRAM WHICH COMPLIES WITH THE REQUIREMENTS OF "PRACTICES FOR RESPIRATORY PROTECTION" Z88.2-1992 AVAILABLE FROM **AMERICAN** NATIONAL STANDARDS INSTITUTE, 11 WEST 42ND STREET, NEW YORK, N.Y. 10036, OR WITH THE REQUIREMENTS OF OSHA STANDARD 29 CFR 1910.134 AVAILABLE FROM THE US DEPARTMENT OF LABOR, OCCUPATIONAL SAFETY HEALTH ADMINISTRATION, OR WITH OTHER PERTINENT NATIONAL RECOGNIZED STANDARDS.

BEFORE USE, THE EMPLOYER MUST ASSURE THAT EACH RESPIRATOR USER HAS BEEN TRAINED BY A QUALIFIED PERSON IN THE PROPER USE AND MAINTENANCE OF THE RESPIRATOR ACCORDING TO THE INSTRUCTIONS CONTAINED IN THIS USER INSTRUCTION AND OTHER APPLICABLE USER INSTRUCTIONS.

Δ WARNING

BEFORE USING THE ILC DOVER SENTINEL XT™ PAPR SYSTEM. EACH PERSON MUST READ AND UNDERSTAND INFORMATION IN THIS USER INSTRUCTION. USE OF THE RESPIRATOR SYSTEMS BY UNTRAINED OR UNOUALIFIED PERSONS, OR USE THAT IS NOT IN ACCORDANCE WITH THESE INSTRUCTIONS, MAY ADVERSELY **AFFECT** RESPIRATOR PERFORMANCE AND MAY RESULT IN INJURY OR DEATH.

Service Life of HE, OV/CD/CL/HC/HF/SD/HE, or CL/HC/SD/CD/AM/MA/FM/HE Cartridge

The useful service life of High Efficiency Particulate Filter, OV/CD/CL/HC/HF/SD/HE or CL/HC/SD/CD/AM/MA/FM/HE cartridges will depend upon the flow rate, the specific type, volatility and concentration of the contaminants and environmental conditions such as humidity and temperature. Replace the cartridge in accordance with an established cartridge change schedule. Cartridges should be changed earlier if smell, taste or irritation from the contaminant is detected. Cartridges must be replaced if they become damaged, soiled, or if increased breathing resistance occurs.

Eye, Face and Head Protection

Δ WARNING

THESE HOODS DO NOT PROVIDE EYE, FACE OR HEAD PROTECTION WHEN EXPOSED TO EYE, FACE OR HEAD HAZARDS. THE RESPIRATOR WEARER MUST WEAR EYE, FACE AND/OR HEAD PROTECTION APPROPRIATE TO THE HAZARD. FAILURE TO DO SO MAY RESULT IN INJURY OR DEATH.

NIOSH APPROVAL

For a listing of the components in the ILC Dover respirator systems (ILC Dover SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEMS) that are NIOSH approved refer to the NIOSH approved label insert.

NIOSH CAUTIONS AND LIMITATIONS

- A. Not for use in atmospheres containing less than 19.5 percent oxygen.
- B. Not for use in atmospheres immediately dangerous to life or health (IDLH).
- Do not exceed maximum use concentrations established by regulatory standards.
- D. Do not use this respirator if airflow is less than four cfm (115 lpm) for tight-fitting facepieces or six cfm (170 lpm) for hoods and/or helmets.
- E. Follow established cartridge/canister change schedules or observe ESLI to ensure that cartridges/canisters are replaced before breakthrough occurs.
- F. Contains electrical parts that may cause an ignition in flammable or explosive atmospheres.
- G. Failure to properly use and maintain this product could result in injury or death.
- H. Follow the manufacturer's instructions for changing cartridges and/or filters.
- I. All approved respirators shall be selected, fitted, used, and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- J. Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- K. Refer to user's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.
- L. NIOSH does not evaluate respirators for use as surgical masks.

M. Special or Critical User's Instructions and/or specific use limitations apply. Refer to User's Instructions before donning.

Δ WARNING

OPERATING THIS EQUIPMENT IN A DIVISION 2 LOCATION (ABNORMAL CONDITIONS). THIS EQUIPMENT IS SUITABLE FOR USE IN CLASS I, II AND III, DIVISON 2 OR NONHAZARDOUS LOCATIONS ONLY.

Δ WARNING

EXPOSURE TO SOME CHEMICALS MAY DEGRADE THE SEALING PROPERITES OF MATERIALS USED IN THE BLOWER AND BATTERY.

- A. Materials used in construction of blower and battery, nylon, rubber and plastic.
- B. Periodically inspect the blower and battery for any degradation of properties and replace if degradation is found.

Δ WARNING

EXPLOSION HAZARD. DO NOT OPEN ENCLOSURE OR REPLACE BATTERY WHEN A FLAMMABLE OR COMBUSTIBLE ATMOSPHERE IS PRESENT.

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REPLACEMENT PARTS

Part No. Component

Hood

S-3112 (Option A) Sentinel XTTM Clear Hood

S-3324 (Option B) Sentinel XT CLEAR PLUS $^{\text{TM}}$ HOOD

S-3701 (Option C) Sentinel XTTM Clear Hood with Neck Cuff

Blower

S-3315 Sentinel XTTM Blower

Power Source

S-3316 Lithium Polymer Battery Pack with Secure Latch

Cartridges and Plug

S-4002 HE-High Efficiency Particulate Air (2/package)

S-4012 (Optional) OV/CD/CL/HC/HF/SD/HE Cartridge (3/ package)

S-2027 (Optional) CL/HC/SD/CD/AM/MA/FM/HE Cartridge (3/package)
S-4006 Blower Plug (with knob); used with S-4002 filters only

S-4007 (alternate) Blower Flat Plug, used with S-4002 filters only

S-4008 (alternate) Flat Plug Installation and Removal Tool

Alternative Carrying Systems

S-3104 Comfort Belt S-3105 (Optional) Back Harness

S-4011 (Optional) Decon and Quick Release Belt and Clip

Accessories

S-3107 Lithium Polymer Battery Charger

S-2010 Flow Meter

S-3106 Battery Charging Cradle

S-2030 Multi position power cord (Optional)

S-3009 Secure Latch

Alternate Hoses

S-3109 33" Breathing Tube S-3110 25" Breathing Tube

S-3508 19" Flexible Breathing Tube

Covers (Optional)

S-3102/S/3103 Breathing Tube Cover/Blower Cover

User Instruction Manual

S-3314 Sentinel XTTM User Instruction Manual

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ASSEMBLY AND PREPARATION FOR USE OF COMFORT, DECON BELT AND BACK HARNESS

ILC DOVER SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEM HEPA PROTECTION COMFORT AND DECON BELT AND OPTIONAL BACK HARNESS CONFIGURATION



ILC DOVER SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEM OV/CD/CL/HC/HF/SD/HE PROTECTION COMFORT BELT AND OPTIONAL BACK HARNESS CONFIGURATION

Breathing Tube Cover (optional)



ILC DOVER SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEM CL/HC/SD/CD/AM/MA/FM/HE PROTECTION COMFORT BELT AND OPTIONAL BACK HARNESS CONFIGURATION



PREPARATION FOR USE (USING COMFORT BELT OR BACK HARNESS)

1. Open the package and take out the components

- Sentinel XTTM Users Instruction Manual S-3314
- Sentinel XTTM Clear Hood S-3112, Sentinel XT CLEAR PLUSTM Hood S-3324, or Sentinel XTTM Clear Hood With Neck Cuff S-3701
- Sentinel XTTM Blower S-3315
- Lithium Polymer Battery S-3316
- HE- High Efficiency Filter Particulate Air Cartridge S-4002, 2 each
- Optional OV/CD/CL/HC/HF/SD/HE Cartridge S-4012, 3 each
- Optional CL/HC/SD/CD/AM/MA/FM/HE Cartridge S-2027, 3 each
- Comfort Belt S-3104
- Back Harness S-3105 (Optional)
- Decon Quick Release Belt and Clip S-4011 (Optional)
- Flow meter S-2010
- Blower Plug (with knob) S-4006 or Blower Flat Plug S-4007 with Installation tool S-4008
- Secure Latch S-3009
- Lithium Polymer Battery Charger (with Instructions) S-3107
- Battery Charging Cradle S-3106
- Multi position power cord S-2030 (Optional)
- Sentinel XTTM 33" Breathing Tube S-3109
- Sentinel XTTM 25" Breathing Tube S-3110
- 19" Flexible Breathing Tube S-3508
- Breathing Tube Cover S-3102 (Optional)
- Blower Cover S-3103 (Optional)

2. CHARGING THE LIPOLYMER BATTERY PACK

- The battery pack should be assembled to the blower unit at all times unless the battery pack needs replacement or is charging.
- Remove the battery charging cradle from the packaging and plug the



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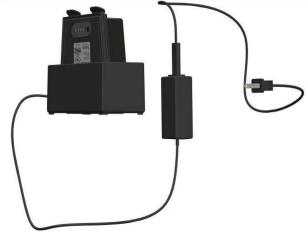
charger socket into the cradle.

• Plug the other end of the charger into an electrical outlet.

• If charger is connected to an electrical outlet before connecting to a battery, a solid green LED light indicates that the charger is operating

properly.

Next, insert the LiPolymer battery pack into the charging cradle. Be sure to insert the pack far enough down to hear/feel an engagement click.



- If the battery is not fully charged the LED light on the charger will change from green to red, indicating that charging is underway.
- Charge the battery for approximately 5 hours (average charge time).
- When battery charging is completed, the charger's LED will change back to green, indicating the battery is charged to capacity.

• If a fully charged battery remains on the charger for an extended length of time with the charger plugged into the electrical outlet, the charger will automatically shut off and no LED light will be visible. Note that the LiPolymer Battery Pack does not have a trickle charge mode and

extended durations of charging are not recommended.

After the battery is charged, remove the LiPolymer Battery Pack from the charging cradle and verify it is fully charged by viewing the battery charge gauge. The battery charge



14 Rev. F gauge is on the back of the battery pack and has four LED lights and a push button to actuate the gauge. When the push button is actuated, LED lights are displayed which indicate the level of battery charge. If four (4) lights are illuminated, the battery is fully charged. If only one, two, or three lights are illuminated, more time is needed to charge the battery. Place the battery pack back in the cradle and wait until the charger LED turns green, fully charged, before using.

A WARNING

DO NOT CHARGE IN DIVISION 2 LOCATIONS.

3. BATTERY USAGE AND STORAGE REQUIREMENTS:

- The Sentinel XTTM LiPolymer battery should be operated between 15°F and 110°F (-9°C to 43°C).
- The Sentinel XTTM LiPolymer battery should be stored and charged between 32°F and 95 °F (0°C to 35°C).
- Maximum storage temperature for the Sentinel XTTM LiPolymer battery is 95°F (35°C). Store in a clean, dry area, away from direct sunlight and sources of heat.
- The Sentinel XTTM LiPolymer battery should be stored at relative humidity of less than 65%.
- Do not completely discharge the battery, battery cell damage can occur. The low voltage alarm indicates that the battery needs to be charged.
- With a fully charged LiPolymer Battery the approximate run time of the Sentinel XTTM is 12 hours.
- Charge battery upon receipt unless storing for more than 1 month.
- In order to maintain proper battery performance; the battery must be reconditioned as follows every three months. This conditioning is not required, if the battery is used on a frequent basis (monthly to daily).
 - Reconditioning
 - Fully charge until green light on charger lights
 - Discharge till low voltage alarm sounds
 - Charge for 3 hours

4. INSTALLING THE LIPOLYMER BATTERY PACK INTO THE BLOWER:

A. Align the LiPolymer battery pack hinge knuckle with the blower hinge pins. Rotate and insert battery pack tabs into blower slots.



B. Once aligned, pull the battery pack toward the blower to close. Ensure you hear/feel a click when the battery pack latch locks into blower. Insert red secure latch into battery pack and blower slot until you hear/feel a click.



5. Removing the red secure latch:

A. To remove the red secure latch (S-3009), insert a tool such as a screwdriver into the circular opening at the top of the blower as shown. Depress the tool slighty downward while pulling outward on the secure latch until is stops.



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Δ WARNING

DO NOT STORE THE LITHIUM POLYMER BATTERY ABOVE 95°F (35°C). STORAGE ABOVE THIS TEMPERATURE MAY RESULT IN BATTERY RUPTURE AND RESULTING EXPLOSION OR FIRE.

Δ WARNING

USE OF THESE RESPIRATOR SYSTEMS BY UNTRAINED OR UNQUALIFIED PERSONS, OR USE NOT IN ACCORDANCE WITH THESE INSTRUCTIONS MAY ADVERSELY AFFECT RESPIRATOR PERFORMANCE AND RESULT IN INJURY OR DEATH.

THESE RESPIRATOR SYSTEMS USE OF MUST BE IN ACCORDANCE WITH APPLICABLE SAFETY AND HEALTH STANDARDS, RESPIRATOR SELECTION TABLES CONTAINED IN SUCH PUBLICATIONS AS ANSI Z88.2-1992, OR PURSUANT TO THE RECOMMENDATIONS OF AN INDUSTRIAL HYGIENIST. USE OF A RESPIRATOR REQUIRES THAT A WRITTEN RESPIRATOR PROGRAM BE IN PLACE, WHICH ACCORDANCE WITH THE OSHA RESPIRATORY PROTECTION STANDARD FOUND IN 29 CFR 1910.134 PRIOR TO USING ANY RESPIRATOR SYSTEM.

BEFORE USE, THE USER MUST BE TRAINED BY THE EMPLOYER IN THE PROPER USE AND MAINTENANCE OF THE ILC DOVER SENTINEL XTTM CLEAR HOOD AND SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEM. SUCH TRAINING MUST BE IN ACCORDANCE WITH THIS USER INSTRUCTION. EACH PERSON USING THESE RESPIRATOR SYSTEMS MUST FIRST READ AND UNDERSTAND THIS ENTIRE USER INSTRUCTION. FAILURE TO DO SO MAY ADVERSELY AFFECT RESPIRATOR SYSTEM PERFORMANCE AND RESULT IN INJURY OR DEATH.

IF THESE RESPIRATOR SYSTEMS **FAIL** ANY OF THE REOUIREMENTS OF THE USER INSPECTION AND PERFORMANCE CHECK, DO NOT USE THE RESPIRATOR SYSTEM UNTIL ALL NECESSARY REPAIRS HAVE PERFORMED AND THE RESPIRATOR SYSTEMS PASS THE CHECKS. FAILURE PERFORMANCE TO DO ADVERSELY AFFECT RESPIRATOR SYSTEM PERFORMANCE AND RESULT IN INJURY OR DEATH.

6. CARTRIDGE INSTALLATION

The SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR systems use two (2) HE cartridges that thread into the blower inlets as shown. The third blower inlet must be plugged using the standard plug with knob (S-4006) or with flat plug (S-4007).

Note: Screw in both HE cartridges hand tight.





Note: Screw in plug hand tight.



The alternative SENTINEL XTTM CLEAR HOOD and SENTINEL XT CLEAR PLUSTM HOOD PAPR SYSTEMS use three (3)



OV/CD/CL/HC/HF/SD/HE cartridges, (S-4012), that thread into the blower inlets as shown.

Note: Screw in cartridges hand tight.



The alternative **SENTINEL XTTM FULL HOOD PAPR SYSTEM** uses three (3) CL/HC/SD/CD/AM/MA/FM/HE cartridges, (S-2027)

- Verify that the cartridges are the appropriate type for the application by examining the label attached to the cartridge.
- Remove the cartridges from their packaging and inspect for damages.
 If in doubt, do not use. Check that the connecting thread is not damaged.
- Check that the threads in the blower unit are in good condition and clear of foreign matter.
- Check that the blower thread inlets have the black rubber gasket seals present in the blower.
- Remove all plugs from the cartridges ends before using the system.
- Screw the cartridges into the blower threads until they are hand tight.

Δ WARNING

DO NOT OVER TIGHTEN CARTRIDGE. OVER TIGHTENING MAY RESULT IN DISTORTION OR DISPLACEMENT OF THE SEAL AND ALLOW CONTAMINATED AIR TO ENTER THE RESPIRATOR HEADPIECE. RESULTING IN INJURY OR DEATH.

7. BLOWER PLUG INSTALLATION

S-4006 blower plug with knob (standard)

- Remove blower plug from cartridge package and discard poly bag.
- Verify that the blower plug and blower inlet connection thread are not damaged.
- Screw the plug directly into bottom blower inlet ensuring a tight seal against inlet gasket.
- If using the blower cover, be sure **to re-check** that blower plug is installed prior to operation.



S-4007 flat blower plug with S-4008 installation tool

- Verify that the blower plug and blower inlet connection thread are not damaged.
- Using blower flat plug installation and removal tool, align and insert tool pins into blower plug. (See left figure below)
- Using a 1/2" box end wrench, or similar tool, secure blower plug ensuring a tight seal against inlet gasket. (See right figure below)





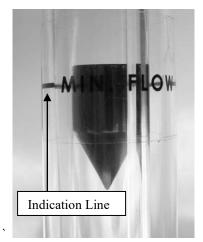
Optional Cartridges

• Blower plug is not used with S-4012 and S-2027 Cartridges.

8. AIRFLOW CHECK WITH THE FLOW METER

- Ensure that the cartridges and plug are installed on the blower.
- Switch the blower **ON**. A short beep should sound.
- Place the flow meter in the blower's hood connector applying light pressure to allow a seal between the flow meter and the blower. Keep the flow meter vertical.
- The position of the upper (flat surface) black cone in the flow meter should be above the indication line. If any part of the upper (flat surface) of the black cone is below the line on the flow meter, DO NOT USE and check for:
 - Blower malfunction.
 - Clogged or damaged cartridges.
 - o Low battery charge or battery malfunction.





- If the upper portion of the black cone is above the indication line on the flow meter, the system is ready for use.
- DO NOT use a blower that fails the flow test.

9. INSTALLING THE BLOWER ONTO THE COMFORT BELT OR BACK HARNESS (Optional)

A. Comfort Belt (S-3104)

- 1. Align the two mounting clips with the blower slots.
- 2. Engage the clips into the blower slot and listen/feel for the click ensuring they are locked into place.

B. Back Harness (S-3105)

- 1. Align the two clips with the blower slots with the blower oriented as shown.
- 2. Engage the clips into the blower slot and listen/feel for the click ensuring they are locked into place.



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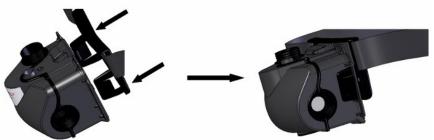




10. INSTALLING THE BLOWER ONTO THE DECON AND QUICK RELEASE BELT AND CLIP (Optional)

 For S-4011 Decon and Quick Release Belt and Clip align the quick don snap features as shown below and press belt clip firmly into place.





11. INSTALLING BLOWER COVER AND BREATHING TUBE COVER

• Stretch blower cover over the blower. Ensure that no blower cover material interferes with the filter inlets or breathing tube connector.



Δ WARNING

DO NOT ALLOW THE BLOWER COVER TO INTERFERE WITH THE FILTER INLETS OR BREATHING TUBE CONNECTOR. THIS MAY RESULT IN FAILURE OF ONE OR MORE OF THE CARTRIDGES OR BREATHING TUBE TO SEAL AND ALLOW CONTAMINATED AIR TO ENTER THE RESPIRATOR HEADPIECE RESULTING IN INJURY OR DEATH.

• Stretch breathing tube cover over the breathing tube. Slide the cover along the breathing tube and ensure elastic ends are placed at the breathing tube end fittings.



12. Removing Back Harness Chest Strap

Unclip the male and female buckles on the left and right sides back harness straps. Slide the chest strap toward the top of the back harness straps until it is removed completely. Re-clip the left and right male and female buckles on the back harness straps. The chest strap is an option to allow the user to have more stability when wearing the system. The system will still function without the chest strap, if the user wishes to remove it.



13. CONNECTING THE BREATHING TUBE TO THE HOOD AND BLOWER

- Check that both ends of the breathing tube threads have the black rubber gasket seal present. Check that the thread in the blower unit is in good condition and clear of anything that might prevent achievement of a good seal.
- Screw the end of the breathing tube into the Sentinel XTTM Clear Hood or SENTINEL XT CLEAR PLUS™ HOOD and the other end into the blower unit until it is hand tight.

Do not over tighten!





Δ WARNING

BEFORE YOU ENTER A HAZARDOUS ATMOSPHERE WEARING THIS RESPIRATOR SYSTEM, YOU MUST INSPECT THE RESPIRATOR SYSTEM, COMPLETE AN AIRFLOW CHECK, AND DON THE SYSTEM ACCORDING TO THE INSTRUCTIONS IN THIS MANUAL. FAILURE TO DO SO MAY ADVERSELY AFFECT RESPIRATOR PERFORMANCE AND MAY RESULT IN INJURY OR DEATH.

DO NOT WEAR THIS RESPIRATOR SYSTEM TO ENTER AREAS WHERE ATMOSPHERIC CONCENTRATIONS OF CONTAMINANTS ARE UNKNOWN. AREA MAY EXCEED THE MAXIMUM USE CONCENTRATION (MUC) FOR THE RESPIRATOR HOOD, OR ATMOSPHERE MAY CONTAIN LESS THAN 19.5% OXYGEN. THIS MAY RESULT IN IMMEDIATE DANGER TO PERSONNEL.

∆ WARNING

ALWAYS DON THE RESPIRATOR IN A NON-CONTAMINATED AREA. FAILURE TO PROPERLY DON THIS RESPIRATOR BEFORE ENTERING A HAZARDOUS ATMOSPHERE MAY RESULT IN INJURY OR DEATH.

IF YOU HAVE ANY DOUBTS ABOUT THE APPLICABILITY OF THE EQUIPMENT TO YOUR JOB SITUATION, CONSULT AN INDUSTRIAL HYGIENIST OR CALL THE TECHNICAL SERVICE DEPARTMENT OF ILC DOVER AT (800) 631-9567.

DO NOT REACH YOUR HAND INTO THE HOOD IN AREAS WHERE THE AIR IS CONTAMINATED. LEAVE THE CONTAMINATED AREA AND CLEAN CONTAMINANTS FROM YOUR HANDS BEFORE REACHING INSIDE THE HOOD.

14. DONNING THE HOOD WITH A SUIT CONFIGURATION

Don the blower and hood in a safe hazard-free area and accomplish the following:

- Check that the cartridges are properly mounted on the blower unit before donning the hood.
- Switch the blower **ON**.
- Both the comfort belt and decon belts allow self-donning of the hood, although the use of an assistant eases the donning process. Donning with the back harness requires a donning assistant.

Comfort (S-3104) and Decon (S-4011) Belt Donning Sequence



Step 1
Turn on the blower. Allow the hood/breathing tube to drape down, then wrap the belt around your waist and snap the belt buckles together. Tighten or loosen the belt in order to fit properly around the waist.



Step 2
After the belt is adjusted, pull the Sentinel XTTM hood over your head. If necessary, put on safety glasses or hard hat prior to donning the hood. See below for proper donning of the neck cuff.



Spread open neck cuff as shown



Pull neck cuff and hood down over head as shown



Step 3
Continue to don the hood by sliding your head through the opening and pulling down the excess skirt.



Step 5
S-3112 option: Tuck the inner hood skirt all the way around your neck and shoulders into the suit. The picture above illustrates the completed tucking operation of the inner skirt. After the tucking portion is completed zip up the suit all the way to the neckline.



Step 4
The hood is donned and the inner skirt (S-3112 only) is ready to be tucked into the suit.



S-3324 option: Tuck the inner hood skirt all the way around your neck and shoulders into the suit, then zip up the suit to the neckline. Wrap the hood straps around your torso, remove the adhesive tape backing, and apply to the suit.

Step 6
S-3112 and S-3701 hood option:
After closing the zipper, pull down the outside bib. Then attach the suspender clips to the suit (front and back) to fasten into place. Be sure to pull the excess slack down in the hood prior to clipping to the suit. The clips may be re-positioned to provide the best placement of the

hood on the user's head.

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Step 6 S-3324 hood option: Attach the bib adhesive tabs to the suit to hold the outer skirt in place. Be sure to pull the excess slack down in the hood prior to connecting to the suit. The adhesive strips may be re-positioned to provide the best placement of the hood on the user's head.





Δ WARNING SPECIAL OR CRITICAL USER'S INSTRUCTIONS

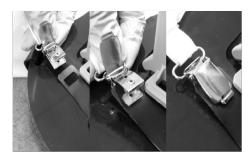
THIS S-3324 HOOD SYSTEM IS DESIGNED FOR USE WITH COATED SPUN BOND POLYOLEFIN LABORATORY COATS OR SUITS (e.g. TYVEK® or TYCHEM® QC). PROPER INSTALLATION AND INTERFACE OF THE HOOD SKIRTS TO THESE GARMENTS IS CRITICAL TO PROVIDE PROPER PROTECTION LEVELS AND SYSTEM OPERATION.





Step 7
Completed picture of donning sequence.

Back Harness (S-3105) Donning Sequence – for hood S-3112 and S-3701 ONLY



Step 1
Align hood's rear suspender clips to tabs on the back harness, insert the suspender clips through slots of back harness tab then snap the suspender clips closed.



Step 3
Insert other arm into the remaining loose back harness



Step 2
Turn on the blower. Insert either the left or right arm into one of the back harness straps. Allow the hood/breathing tube to drape down.



Step 4
Pull the Sentinel XTTM hood over your head. If necessary, put on safety glasses or hard hat prior to donning the hood.

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Step 5
Continue to don the hood by sliding your head through the opening and pulling down the excess skirt.



Step 7
Tuck the inner hood skirt all way around your neck and shoulders into the suit. It is VERY important to tuck the inner skirt all the way down into the suit. Ensure the inner skirt is tucked underneath the back harness straps and back harness plate. The picture above illustrates the completed tucking operation of the inner skirt. After the tucking portion is completed, zip up the suit all the way to the neckline.



Step 6
The hood is donned and the inner skirt (S-3701 only) is ready to be tucked into the suit.



Step 8
Tighten the adjustment straps to allow the unit to sit snug against the body. Depending on the user, the chest strap can be fastened for added comfort and support.

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Step 9
Then attach the front suspender clips to the suit to fasten into place. Be sure to pull the excess slack down in the hood prior to clipping to the suit. The clips may be re-positioned to provide the best placement of the hood on the user's head.



Step 10 A completed picture of the donning sequence.

Back Harness (S-3105) Donning Sequence – for hood S-3324 ONLY

Note: donning the S-3324 hood with the back harness requires the use of a donning assistant. The donning assistant holds the blower and back harness throughout the steps detailed below.





Step 1
Turn the blower on, and don the hood over your head.



Step 2
Tuck the inner hood skirt all way around your neck and shoulders into the suit. After the tucking portion is completed, zip up the suit all the way to the neckline.





Step 3
Wrap the hood straps around your torso, remove the adhesive tape backing, and apply to the suit.





Step 4 Attach the bib adhesive tabs to the suit to hold the outer skirt in place.



Step 5 Place your arms through the back harness straps.



Step 6
Tighten the adjustment straps to allow the unit to sit snug against the body.



Step 7Pull the front back harness straps around the chest, over the outer skirt, and snap the buckle.



Step 8
Tighten the front adjustment straps to allow the unit to sit snug against the body.
Depending on the user, the chest strap can be fastened for added comfort and support.



Step 9 A completed picture of the donning sequence.

35 S-3314 Rev. F With the respirator in operation and donned according to the instructions, enter the contaminated area, breathing normally. Keep all the respirator system's components away from equipment, vehicles and other physical and chemical hazards.

A WARNING

DO NOT REMOVE RESPIRATOR SYSTEM WHILE YOU ARE IN A HAZARDOUS ATMOSPHERE. DOING SO MAY RESULT IN SICKNESS OR DEATH. CONTAMINANTS, WHICH ARE DANGEROUS TO YOUR HEALTH, INCLUDE THOSE THAT YOU MAY NOT BE ABLE TO SEE OR SMELL. LEAVE THE CONTAMINATED AREA IMMEDIATELY IF:

- ANY PART OF THE SYSTEM BECOMES DAMAGED.
- AIRFLOW INTO THE RESPIRATOR HOOD DECREASES OR STOPS.
- THE ALARM SIGNAL OF LOW BATTERY IS ON: RED LED FLASHES AND BUZZER BEEPS.
- BREATHING BECOMES DIFFICULT.
- YOU FEEL DIZZY OR YOUR VISION IS IMPAIRED.
- YOU TASTE OR SMELL CONTAMINANTS.
- YOUR FACE, EYES, NOSE OR MOUTH BECOME IRRITATED.
- YOU SUSPECT THAT THE CONCENTRATION OF CONTAMINANTS MAY HAVE REACHED LEVELS AT WHICH THIS RESPIRATOR SYSTEM MAY NO LONGER PROVIDE ADEQUATE PROTECTION.

Δ WARNING

USE OF THESE RESPIRATOR SYSTEMS BY UNTRAINED OR UNQUALIFIED PERSONS, OR USE NOT IN ACCORDANCE WITH THESE INSTRUCTIONS MAY ADVERSELY AFFECT RESPIRATOR PERFORMANCE AND RESULT IN INJURY OR DEATH.

USE OF THESE RESPIRATOR **SYSTEMS** MUST BEACCORDANCE WITH APPLICABLE SAFETY AND HEALTH STANDARDS, RESPIRATOR SELECTION TABLES CONTAINED IN SUCH PUBLICATIONS AS ANSI Z88.2-1992, OR PURSUANT TO THE RECOMMENDATIONS OF AN INDUSTRIAL HYGIENIST. A RESPIRATOR REQUIRES THAT A WRITTEN RESPIRATOR **PROGRAM** \mathbf{BE} IN PLACE, WHICH ACCORDANCE WITH THE OSHA RESPIRATORY PROTECTION

STANDARD FOUND IN 29 CFR 1910.134 PRIOR TO USING ANY RESPIRATOR SYSTEM.

BEFORE USE, THE USER MUST BE TRAINED BY EMPLOYER IN THE PROPER USE AND MAINTENANCE OF THE ILC DOVER SENTINEL XTTM CLEAR HOOD AND SENTINEL XT CLEAR PLUS™ HOOD SYSTEMS. SUCH TRAINING MUST BE IN ACCORDANCE WITH THIS USER INSTRUCTION. EACH PERSON USING THESE RESPIRATOR SYSTEMS MUST FIRST READ AND UNDERSTAND THIS ENTIRE USER INSTRUCTION. FAILURE TO DO SO MAY ADVERSELY AFFECT RESPIRATOR SYSTEM PERFORMANCE AND RESULT IN INJURY OR DEATH. IF THESE RESPIRATOR SYSTEMS FAIL ANY OF THE REQUIREMENTS OF THE USER INSPECTION AND PERFORMANCE CHECK, DO NOT USE THE RESPIRATOR SYSTEM UNTIL ALL NECESSARY REPAIRS HAVE BEEN PERFORMED AND THE RESPIRATOR SYSTEMS PASS THE PERFORMANCE CHECKS. FAILURE TO DO ADVERSELY SYSTEM MAY AFFECT RESPIRATOR PERFORMANCE AND RESULT IN INJURY OR DEATH.

REMOVING THE PAPR SYSTEM

Remove the blower and hood in a safe hazard-free area.

- Doff the hood.
- Remove the comfort or decon belt and blower from your waist, (blower should be working at this stage). Or if using the back harness configuration, remove the shoulder strap assembly off the body.
- Turn the blower **OFF**.



INSPECTION

After each use, inspect the hood to identify signs of damage or wear that may affect performance of the respirator and reduce the degree of protection

provided. The Troubleshooting Section in this manual contains a troubleshooting guide to help you identify the proper action to take for specific problems that may be detected.

Hood

Check that there are no tears or punctures in the Sentinel XTTM Clear Hood or SENTINEL XT CLEAR PLUSTM HOOD. Look closely at the stitching. There should be no tears that could permit contaminated air to enter the hood.

Visor

Look for scratches or other visual distortions that make it difficult to see through visor.

Breathing Tube

Carefully examine the entire breathing tube. Look for tears, holes or cracks. Bend the tube to verify that it is flexible.

Blower

Remove the cartridges and assure that the rubber gaskets are in place in the blower. Examine the blower housing for cracks. Replace if cracked or damaged. Examine the outside of the battery pack for cracks. Replace if damaged.

Cartridges

Examine cartridges for mechanical damage and deformities. Replace if damaged.

Blower Plug

Examine the plug in the blower inlet, and insure a tight seal against the internal gasket. Re-tighten if necessary.

Δ WARNING

IF EXCESSIVE WEAR AND/OR DAMAGE TO THE RESPIRATOR SYSTEM OR ITS COMPONENTS IS OBSERVED AT ANY TIME, DO NOT USE THE RESPIRATOR SYSTEM UNTIL ALL NECESSARY REPAIRS HAVE BEEN PERFORMED AND THE WEARER HAS SUCCESSFULLY COMPLETED THE USER PERFORMANCE CHECK DESCRIBED IN THE OPERATING INSTRUCTIONS SECTION OF THIS USER INSTRUCTION.

MISUSE MAY ADVERSELY AFFECT RESPIRATOR PERFORMANCE AND MAY RESULT IN INJURY OR DEATH.

CLEANING

Note: Hoods S-3112, S-3701, and S-3324 are not designed to be cleaned (decontaminated) and reused after use. Adhesive tapes used in S-3324 should not be exposed to cleaning processes; the adhesive tape backings used in hood S-3324 should only be removed immediately prior to donning.

Solvents should not be used to clean the Sentinel XTTM blower, LiPolymer battery pack, breathing tube and hood. Liquid solvents may chemically weaken the plastic. Wipe the blower, battery pack, breathing tube and hood with a mild cleaning solution. The decontamination solutions may be applied via cloth, paper towels, or spraying methods. Do NOT decon the battery charger. Wipe components dry with a soft cloth following decontamination and rinsing with clean water, unless noted to air dry. Never submerge or immerse any Sentinel XTTM PAPR blower, battery, filter, breathing tube, or hood components in liquid as this may permanently damage the electronics, batteries, or affect the hood or breathing tube function. Ensure all components are **completely** dry before using the system or charging the battery.

Follow the hygiene practices established by your employer for the specific contaminants to which you may have been exposed.

Δ WARNING

DO NOT CLEAN SENTINEL XT™ CLEAR HOOD AND SENTINEL XT CLEAR PLUS™ HOOD WITH DETERGENTS THAT CONTAIN LANOLIN OR OTHER OILS SINCE THEY MAY SOFTEN OR DISTORT THE VISOR.

DO NOT WIPE THE VISOR WITH SOLVENTS LIKE MEK, ACETONE, TOLUENE, AS THOSE MAY DAMAGE OR DISTORT THE VISOR.

DO NOT SOAK THE CLEAR HOOD OR SENTINEL XT CLEAR PLUSTM HOOD OR COMPONENTS IN CLEANING SOLUTIONS OR SOLVENTS. MISUSE MAY ADVERSELY AFFECT RESPIRATOR PERFORMANCE AND RESULT IN INJURY OR DEATH.

STORAGE

Store your respirator in a cool, dry area that is protected from exposure to hazardous contaminants and away from direct sunlight and sources of heat. The Sentinel XTTM LiPolymer battery should be stored between 32°F and 95 °F. (0°C to 35°C). Maximum storage temperature for the Sentinel XTTM LiPolymer

battery is 95°F (35°C). The Sentinel XTTM LiPolymer battery should be stored at relative humidity of less than 65%.

DISPOSAL OF CARTRIDGE ELEMENTS AND BATTERIES

1. Remove used cartridge elements and dispose of properly.

- Handle cartridge elements with care. Cartridge elements may contain the contaminant internally and externally that was in the atmosphere while the cartridge element was being used and must be handled as a contaminated or potentially contaminated object.
- Disposal of cartridge elements must be in accordance with state and local environmental regulations.

Δ WARNING

AFTER DECONTAMINATION, DISPOSE OF CARTRIDGE ELEMENTS IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL REGULATIONS. DO NOT THROW AWAY DAMAGED OR UNUSABLE CARTRIDGE ELEMENTS AS ORDINARY WASTE. IMPROPER DISPOSAL OF CONTAMINATED CARTRIDGE ELEMENTS MAY RESULT IN EXPOSURE TO CONTAMINANTS WHICH MAY CAUSE INJURY OR DEATH.

2. Remove the Battery and dispose of properly.

Batteries may have been contaminated by the atmosphere in which they were used and must be handled as a contaminated or potentially contaminated object.

- Dispose of depleted or damaged batteries in accordance with state and local environmental regulations.
- Do not throw away used cartridge elements or depleted or damaged batteries as ordinary waste.

Δ WARNING

DISPOSE OR OF DEPLETED DAMAGED **BATTERIES** IN ACCORDANCE FEDERAL, WITH STATE AND LOCAL ENVIRONMENTAL REGULATIONS. DO NOT THROW AWAY DEPLETED OR DAMAGED BATTERIES AS ORDINARY WASTE. IMPROPER HANDLING OF DEPLETED DAMAGED BATTERIES MAY RESULT IN INJURY OR DEATH.

TROUBLESHOOTING

Use the table below to help identify possible causes and corrective action for problems you may experience.

Problem	Possible Cause	Corrective Action
Poor visibility	Visor is coated with	Wipe debris off.
through visor	debris.	
		Dispose of hood and replace
	Visor is scratched.	it with new hood.
Continuous low	Battery is not charged.	Leave work area
voltage alarm		immediately.
sounds upon		LiPolymer Battery:
blower activation		Switch to a fully charged
		battery, or recharge.
Low airflow	Battery needs charging.	Leave work area
		immediately; switch to fully
	One or more cartridges are loaded.	charged LiPolymer battery.
		Replace cartridges.
	PAPR blower	
	malfunction.	Switch to a different blower
		unit.
Blower gasket is	Gasket is not properly	Contact ILC Dover Customer
raised, twisted, or	seated into the blower and	Service Department
has any visible	may produce a leak path	immediately
defects		1-800-631-9567
Blower housing is	Mishandling of the	Leave work area immediately
cracked	equipment	and replace with a new
		blower.
Battery pack is	Improper use of the	
cracked	equipment or excessive	Dispose damaged battery and
	use/and or damage	replace.
Dents, Tears,	Mishandling of the	Leave work area immediately
Holes, or Cracks in	equipment/improper use	to prevent contaminated air
the Hood or	of the equipment	from entering the hood or
Breathing Tube		breathing tube.
	Not following the decon	
	procedures properly.	Dispose damaged hood or
	Excessive wear or damage	breathing tube and replace it
		with a new hood or breathing
		tube.
Can't remove	Secure latch engaged	Use a tool to release secure
battery		clip on battery and then
		remove battery

CUSTOMER SERVICE INFORMATION

If you need additional information on the Sentinel XTTM Clear Hood or SENTINEL XT CLEAR PLUSTM HOOD PAPRS or any ILC Dover product, consult your distributor or contact:

Customer Service

ILC Dover One Moonwalker Road Frederica, DE 19946-2080

Phone: 800.631.9567 OR 302.335.3911, ext. 506

Fax: 302.335.1320 www.ilcdover.com

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