

**3M** Science.  
Applied to Life.™



# The heat is on. Protect your workers.

When working in hot and humid environments, finding both reliable and comfortable respiratory protection is key to helping keep workers safe. With 3M disposable respirators there's a solution: 3M™ Cool Flow™ Valve technology.



3M™ Cool Flow™ Valve



# Cool comfort starts with cool breathing.

3M disposable and reusable respirators with the 3M™ Cool Flow™ Valve are designed to maximize breathing comfort and exhalation. By helping to release the user's hot, humid exhaled breath quickly, the 3M™ Cool Flow™ Valve helps to reduce heat and moisture build-up inside the facepiece. Additionally, the valve cover helps direct exhaled air downward and away from the face. When you work in hot, humid and physically demanding environments, a little more comfort makes a difference.

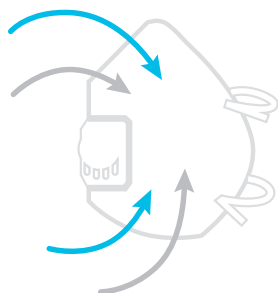


## Beat the heat with a cooler solution.

On average, disposable respirators with a 3M™ Cool Flow™ Valve are up to 7.5 degrees cooler inside the facepiece than similar models without the valve.\* See how 3M™ Cool Flow™ Valve technology can help keep your workers more comfortable.

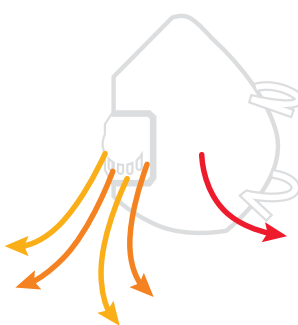
\* Testing conducted in a 3M laboratory with the 8510 unvalved and 8511 with Cool Flow Valve. Testing protocol, data generation and conclusions were reviewed and approved by an expert from the University of Minnesota. The testing performed by 3M is not a part of the testing and certification conducted by NIOSH.

### Inhalation with a 3M™ Cool Flow™ Valve



- **Inhalation:** As the wearer inhales, air is pulled through the respirator, and surface temperature decreases. Additionally, the 3M™ Cool Flow™ Valve's plastic cover retains some of the inhaled heat.

### Exhalation with a 3M™ Cool Flow™ Valve



- **Exhalation:** As the wearer exhales, the respirator is filled with warm, moist air. The exhaled air exits through the 3M™ Cool Flow™ Valve and filter media. This is ideal for long periods of wear, especially where conditions are hot and humid, or when physically demanding work causes heavy breathing.

## Heat has no boundaries

3M™ Cool Flow™ Valve technology is available on numerous 3M disposable and reusable respirators, providing a cooler solution to most working environments.

### Standard N95



3M™ Particulate Respirator 8210V N95

3M™ Particulate Respirator 8211 N95

3M™ Particulate Respirator 8511 N95

3M™ Aura™ Particulate Respirator 9211+ N95

### Welding N95



3M™ Particulate Welding Respirator 8515 N95

3M™ Particulate Welding Respirator 8212 N95

3M™ Particulate Welding Respirator 8214 N95

3M™ Particulate Welding Respirator 8512 N95

3M™ Particulate Welding Respirator 8514 N95

### 100 Class



3M™ Particulate Respirator 8293 P100

3M™ Particulate Respirator 8233 N100

For a full listing of all 3M™ Cool Flow™ Valve technology options, contact 3M or visit [3M.com/CoolFlow](http://3M.com/CoolFlow).



**Personal Safety Division**  
3M Center, Building 235-2W-70  
St. Paul, MN 55144-1000

### For more information

In the U.S., contact:  
Technical Service: 1-800-243-4630  
Customer Service: 1-800-328-1667  
[3M.com/WorkerSafety.com](http://3M.com/WorkerSafety.com)



## WARNING

These respirators help protect against certain particles. Misuse may result in sickness or death. For proper use, see supervisor or User Instructions, or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

In Canada, contact:  
Technical Service: 1-800-267-4414  
Customer Service: 1-800-364-3577

**DISTRIBUTED BY:**  
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# Helping You Wear it Right

## Wearing Your Filtering Facepiece Respirator

1



Place the respirator over your nose and mouth. Be sure the metal nose clip is on top. With models 8210 or 07048, pre-stretch the straps before wearing.

2



Pull the top strap over your head until it rests on the crown of your head above your ears.

3



Pull the bottom strap over your head until it rests just below your ears.

4



Using both hands starting at the top, mold the metal nose clip around your nose to achieve a secure seal.



Filtering Facepiece  
Valved Respirator

Filtering Facepiece  
Non-Valved Respirator

## Check the Seal of Your Filtering Facepiece Respirator Each Time You Don the Respirator.



### Positive Pressure User Seal Check

#### For Non-Valved Respirators

Place both hands completely over the respirator and *exhale*. The respirator should bulge slightly. If air leaks between

the face and faceseal of the respirator, reposition it and readjust the nose clip for a more secure seal. If you cannot achieve a proper seal, **do not** enter the contaminated area. See your supervisor.



### Negative Pressure User Seal Check

#### For Valved Respirators

Place both hands over the respirator and *inhale* sharply. The respirator should collapse slightly. If air leaks between the

face and faceseal of the respirator, reposition it and readjust the nose clip for a more secure seal. If you cannot achieve a proper seal, **do not** enter the contaminated area. See your supervisor.



### WARNING

#### Respiratory Products

These respirators help protect against certain airborne contaminants. Before use, the wearer must read and understand the *User Instructions* provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. **Misuse may result in sickness or death.** For proper use, see packaging instructions, supervisor, or call 3M OH&ESD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.