



# Honeywell North CF7000 Series

Abrasive Blast Respirator



# A tough job, in a harsh environment.

Abrasive blast workers are exposed to environmental and physical dangers each time they perform their job. Potential air contaminants at the site can include cadmium, chromium, copper, iron, lead, manganese, arsenic, amorphous silica, crystalline silica...the list goes on and on. The respiratory exposure risk is great, not only for the blaster but also for the pot tender and cleanup personnel.

The physical demands of the job involve extreme temperatures as well as increased noise levels. Honeywell Safety Products provides personal protective equipment (PPE) solutions to keep workers comfortable, but more importantly to keep workers safe.

Safety Managers responsible for the comfort and safety of their workers as well as pressure to improve job execution time need a better respiratory solution.



## An Innovative Solution for Abrasive Blast Operations

The Honeywell North® CF7000 series respirator was developed from a request by the US Navy – design a better respirator; with a wider range of vision, ease in switching from supplied air to an air-purifying respirator, make it lightweight and increase overall worker comfort.

Honeywell rose to the challenge, utilizing a revolutionary human-factors approach. Designers, engineers and developers observed and interviewed blast workers to better understand the hazards and challenges faced each day to design the Honeywell North CF7000 series, combination continuous flow supplied air abrasive blast and air purifying respirator.

# CF-SAR/APR Combination

The patented CF7000 Series is tested and certified to NIOSH 42 CFR 84 standard as a combination Type CE continuous flow supplied air abrasive blast respirator and air purifying respirator with P100 filters\* for entry, exit, to intermittent use to move from one air source to another, and escape.



## Continuous Flow Supplied Air Respirator (CF-SAR)

When used as a supplied air respirator the CF7000 Series is for protection from hazardous gases, vapors and/or particulates, including contaminants during abrasive blast when the concentration does not exceed 1000 times the Permissible Exposure Limit (PEL), is below the contaminant's Immediately Dangerous to Life or Health (IDLH) thresholds, and there is sufficient oxygen according to the OSHA or CSA requirements.

## Air-Purifying Respirator (APR)

When used as an air-purifying respirator the CF7000 Series is for protection for entry, exit, intermittent use to move from one air source to another, and for escape from hazardous particulates where the concentration does not exceed 50 times the PEL (quantitative fit testing) or 10 times PEL (qualitative method), is below the contaminant's IDLH thresholds, and there is sufficient oxygen according to the OSHA and CSA requirements. PEL is defined as the maximum permissible 8-hour time weighted average (TWA) concentration established by applicable OSHA or other government regulations, or by NIOSH, ACGIH or CSA\*\*.

\*Approved for use only with North P100 filters (# 7580P100).

\*\*Per OSHA's Assigned Protection Factors outlined in 29 CFR 1910.134 air-purifying full facepieces have an APF of 50 if the user has been Quantitatively Fit Tested and an APF of 10 if the user has been Qualitatively Fit Tested in that mask.



### **Lightweight Construction**

CF7000 is 30% lighter than other competitive abrasive blast respirators. The hood is made from a highly durable and flexible material, allowing users to maneuver in tight spaces, crouching and moving as they need to complete the job.

### **Less Noise**

The patented noise reducing muffler is <75 dB. Workers will appreciate a quieter work place. When more hearing protection is required, the hood is roomy enough to accommodate a variety of muffs to protect workers' hearing from loud environments.

### **Compatibility**

CF7000\* is designed to be cost-effective. Most of the replacement parts for the CF7000 are the same replacement parts used for the Honeywell North continuous flow-air supply respirators; less investment and lower inventory overhead, equals money saved.

*\* Many replacement parts are available*



### A Clearer View

Utilizing our Honeywell resources, the respiratory team partnered with designers of Honeywell Uvex® safety eyewear to develop the patented lens cartridge system and incredible, distortion-free-optics for the facepiece. A snap-on cartridge, made of impact-resistant polycarbonate, gives users four layers of lenses. Each lens layer is easily removed when the top layer becomes too abraded from blasting grit.



*Remove lens layers, while working, even when wearing thick gloves.*



### A Wider View

A wider range of vision (160°), offers unmatched visibility without distortion. User's increased downward view allows for an unobstructed sight of the work-area as well as hoses and other obstacles that could cause a trip and fall hazard.



*Lenses meet ANSI Z87 for impact resistance. No additional safety eyewear is required; suitable for use with prescription lens spectacle inserts.*



### Comfortable Temperature Control

The optional, NIOSH approved Vortex heats or cools the air flowing to the headgear. Airflow can be cooled or heated, plus or minus 30° F (approx 20° C) of the ambient temperature. Users feel more comfortable and can work longer with less need for downtime.



*Vortex assembly, includes vortex, leather sheath, brass adapter and muffler assembly.*

The Honeywell North® CF7000 incorporates a wide range of unique features in order to keep blasters safe in dangerous work environments.

**The popular and dependable Honeywell North 7600 series mask** was the inspiration for the CF7000 facepiece design. The CF7000 facepiece is composed of a lightweight and durable silicone, which conforms to most facial types securely for an air-tight seal. Valve placement makes it easier and safer for workers to perform fit-tests, and the front mounted breathing tube stays clear of obstructing filters.

**The P100 filters** are protected from abrasive blast media by a nylon type-6, 20% fiberglass reinforced filter/exhalation cover. The cover is easily installed, just 'snap and go'. On-the-spot seal checks can be performed by removing the protective filter/exhalation cover.

**CF7000 features a CF-SAR/APR** combo with our patented pressure relief valve which automatically senses an interruption or disconnect from the air-supply and instantly switches from CF-SAR to APR, providing greater safety and peace-of-mind for the user.

**The hood material used for the CF7000** was independently tested for durability and abrasion resistance with a 15 minute direct blast at 5.5 inches using Aluminum Grit #25; this test exceeds the demands encountered in most blasting environments. The user's upper torso is protected from abrasion and skin damage; increase the area of protection when using the optional cape.



## Safety Comes First

# HOW TO ORDER

ITEM #	DESCRIPTION
<b>ABRASIVE BLAST RESPIRATOR ASSEMBLY</b>	
<b>CF7001SUS</b>	Includes hood with built-in tight fitting facepiece, one magazine with four lenses, breathing tube with housing assembly, decon belt, two P100 cartridges and protective filter/exhalation cover, Small
<b>CF7001US</b>	Includes hood with built-in tight fitting facepiece, one magazine with four lenses, breathing tube with housing assembly, decon belt, two P100 cartridges and protective filter/exhalation cover, Medium/Large
<b>ACCESSORIES &amp; REPLACEMENT PARTS</b>	
<b>CF70035US</b>	Polycarbonate cover lenses, magazine with 4 lenses, 48 sets per box
<b>CF70050US</b>	Cape assembly with head shroud
<b>CF70060</b>	Vortex assembly, includes vortex, leather sheath, brass adapter and muffler assembly
<b>760024</b>	Spectacle insert for all full facepieces, metal frame with wire spring
<b>80100</b>	Spectacle insert for all full facepieces, plastic frame with suction cup
<b>7580P100</b>	Particulates filter P100, box of 72 units
<b>HEARING PROTECTION FOR USE WITH THE CF7000 SERIES</b>	
The respirator can accommodate a combination of earmuffs and custom-fitted earplugs	
<b>EAR MUFF</b>	
<b>1013460</b>	Leightning LON Neckband NRR 22
<b>EAR PLUGS</b>	
<b>MAX-1</b>	NRR 33, Uncorded
<b>MAX-30</b>	NRR 33, Corded
<b>MAX-1S</b>	NRR 30, Uncorded
<b>MAX-30S</b>	NRR 30, Corded
<b>LPF-1</b>	NRR 30, Uncorded
<b>LPF-30</b>	NRR 30, Corded
<b>LL-1</b>	NRR 32, Uncorded
<b>LL-30</b>	NRR 32, Corded



CF7001US



CF70060

ITEM #	DESCRIPTION
<b>HOSES &amp; COUPLERS</b>	
A choice of five (5) quick connect coupler assemblies is available as either a complete assembly (one male and one female) or the male and female coupler may be ordered separately. Add the suffixes noted below for the desired brand. <b>Cejn: C, Foster: F, Hansen: H, Schrader: S, Snap-Tite: ST</b>	
<b>QUICK CONNECT COUPLERS TO CONNECT AIR SUPPLY HOSE TO BLOCK ASSEMBLY</b>	
<b>880040</b>	Female coupler for 3/8" I.D. breathing air hose connecting to male plug on block assembly
<b>880060</b>	Female coupler for 1/2" I.D. breathing air hose connecting to male plug on block assembly
<b>88600</b>	Coupler Assembly for 3/8" I.D. breathing air hose (includes one 880141 & one 880040)
<b>88800</b>	Coupler Assembly for 1/2" I.D. breathing air hose (includes one 880161 & one 880060)
<b>QUICK CONNECT COUPLERS TO CONNECT AIR SUPPLY HOSE TO AIR SOURCE (OPTIONAL)</b>	
<b>880141</b>	Male plug for 3/8" I.D. breathing air hose connecting to air supply
<b>880161</b>	Male plug and bushing for 1/2" I.D. breathing air hose connecting to air supply
<b>COUPLERS FOR AIR SOURCE IF NOT ALREADY INCLUDED WITH AIR SOURCE:</b>	
<b>880040</b>	Female coupler for air source with 1/4" NPT male thread
<b>880041</b>	Female coupler for air source with 1/4" NPT female thread
<b>880060</b>	Female coupler for air source with 3/8" NPT male thread
<b>880061</b>	Female coupler for air source with 3/8" NPT female thread
<b>BREATHING HOSES</b>	
<b>996025</b>	25 foot hose, 3/8" I.D.
<b>996050</b>	50 foot hose, 3/8" I.D.
<b>996100</b>	100 foot hose, 3/8" I.D.
<b>998025</b>	25 foot hose, 1/2" I.D.
<b>998050</b>	50 foot hose, 1/2" I.D.
<b>998100</b>	100 foot hose, 1/2" I.D.
<b>OTHER AIRLINE ACCESSORIES</b>	
<b>FILTRATION PANELS</b>	
<b>RFPF60C</b>	Filtration panel for 4 workers with Carbon Monoxide (CO) alarm. Alarms at 5 ppm (meets CSA requirements)
<b>RFPF60A</b>	Filtration panel for 4 workers with Carbon Monoxide (CO) alarm. Alarms at 10 ppm (meets OSHA requirements)
<b>RFPF100C</b>	Filtration panel for 8 workers with Carbon Monoxide (CO) alarm. Alarms at 5 ppm (meets CSA requirements)
<b>RFPF100A</b>	Filtration panel for 8 workers with Carbon Monoxide (CO) alarm. Alarms at 10 ppm (meets OSHA requirements)
<b>FILTRATION PANELS ACCESSORIES</b>	
<b>RPFPC</b>	Calibration kit for CO Monitor on RFPF Series filtration panels
<b>RPFPCO</b>	1.7 liter CO gas cylinder for CO monitor in RFPF Series filtration panels
<b>RPFPO2</b>	1.7 liter O2 gas cylinder for CO monitor in RFPF Series filtration panels.
<b>RFPFRA</b>	CO remote alarm, 50 feet, for RFPF Series filtration panels
<b>935003N</b>	Pre-filter assembly for RFPF Series filtration panel



7580P100



996050



1013460



RPFPC



RPFPO2



CF70035US

**For more information:**

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