



CLEMCO
The Performance
System

TECHNICAL DATA SHEET

Note: For safe, efficient blasting, read and follow the owner's manual and seek training for everyone who will use this equipment.

Purpose

The Apollo 20 HP is designed for use with compressed air systems. It meets OSHA standards for respiratory protection and noise limitations. The Apollo 20's full-helmet design and heavy-duty cape protect the blast operator's head, neck, shoulders, and chest from rebounding abrasive.

Requirements for Operation

The following items are required or recommended for operation, but are not included with this respirator:

- Source of Grade D (or better quality) breathing air providing 7 to 15 cfm at 65 to 100 psi (if Clem-Cool or CCT is used, increase cfm to 20)
- A breathing air filter (such as the Clemco CPF) to remove oil, moisture, particles, and odors
- Carbon monoxide monitor and alarm (such as the Clemco CMS-2)
- 3/8-inch x 50-foot approved respirator hose from the breathing air filter to the helmet connection, stock no. 04415
- Protective clothing, gloves, and shoes suitable for a heavy construction site
- Primary hearing and eye protection

Description of Operation

The Apollo 20 is a single-shell construction helmet supported by an adjustable suspension. The DLX comfort-fit suspension surrounds the operator's head with comfortable padding. A chin strap holds the helmet firmly in place. The rectangular window provides a clear field of view. An inner fixed lens and one middle lens seal out dust and abrasive.

Up to three lightweight, disposable outer lenses, held in place by a hinged frame, protect the middle lens from pitting. As the outermost disposable lens becomes pitted, it can be torn off to expose the next lens.

Description

The Apollo 20 HP is a Type CE, continuous-flow, supplied-air respirator for abrasive blasting, to be used with a compressed air source. The bright green helmet has a box-front window, and a protective cape. The Apollo 20 comes standard with DLX comfort-fit suspension.

Apollo 20 HP Supplied-Air Respirator

**For use with
compressed air supply**



The helmet can be purchased with one of the following:

- Constant-Flow Connector — fixed air flow (no adjustment possible)
- Air Control Valve — to adjust flow rate of incoming air
- Clem-Cool Air Conditioner — to cool incoming air
- Climate Control Tube — to cool or warm incoming air as needed

With all but the Constant-Flow Connector, the operator can adjust the flow of air. None of the valves can be adjusted beyond pre-set minimum and maximum settings specified by NIOSH.

A flexible breathing tube between the valve and the helmet allows free movement of the operator's head. This tube contains specially-formulated sound-deadening materials that help the respirator comply with 80 dBA maximum noise level while allowing free air flow. For maximum protection while blasting, the operator should wear ear plugs or other suitable hearing protection and safety glasses or goggles.

The air enters the helmet at the rear, travels through a sound-attenuating

distribution system at the top, and circulates about the operator's face. The incoming air maintains positive pressure inside the helmet, so exhaled air exits via the knit collar. Maintaining positive pressure inside the helmet helps keep out potentially harmful dust and abrasive.

Advantages

- DLX comfort-fit suspension
- Box-front window features economical replacement lenses
- Sound-attenuating, air-distribution channel
- Lightweight construction
- Molded-in carrying handle
- Allows operator to wear supplementary hearing and primary eye protection

Approvals and Certifications

The Apollo 20 HP helmet is a NIOSH-approved, type CE respirator (approval number TC-19C-338) and is recognized by OSHA as having an assigned protection factor (APF) against lead dust of 1000 times the permissible exposure limit (PEL).

NOTE: Prior to use, ensure that the Apollo, type CE, supplied-air respirator is appropriate for your specific blasting conditions and requirements.

Respirator Systems and Accessories

NOTE: The respirators listed DO NOT include respirator hose.
Respirator hose must be ordered separately.

(-) Apollo 20 HP DLX w/Constant-Flow Connector	.....20975
(-) Apollo 20 HP DLX w/Air Control Valve	.....21419
(-) Apollo 20 HP DLX w/Clem-Cool Air Conditioner	.....21420
(-) Apollo 20 HP DLX w/Climate Control Tube	.....21421
(-) Constant-Flow Connector with belt	.....21422
(-) Air Control Valve with belt	.....04440
(-) Clem-Cool Air Conditioner with belt	.....23825
(-) Cool-Air Tube with belt	.....04410
(-) Climate Control Tube with belt	.....04411
(-) Low pressure conversion kit.	
Converts HP helmet to LP helmet	.....22680
(-) DLX Suspension Kit	
(for replacement or conversion to DLX style)	.....25215

Options and Accessories

Description	Stock No.
CPF-20 Air Filter (for one or two operators)	.....03578
CPF-80 Air Filter (for up to four operators)	.....03527
Carbon monoxide alarm, CMS-2	.....22894
Heavy-duty blast suit (leather front, cotton back)	
S M L XL XXL XXXL	
08920 08921 08922 08923 24201 24202	
Light-weight seasonal blast suit (nylon front, cotton back)	
S M L XL XXL XXXL	
22913 22914 22915 22916 22917 25022	
Leather gloves	.....02243
Comfort Vest with Clem-Cool	.....25266

Packaging

Respirators

Stock No.	Dimensions	Weight
20975	14-1/2" x 13" x 15"	8 lb
21419	(same)	8 lb
21420	(same)	8.9 lb
21421	(same)	9.4 lb

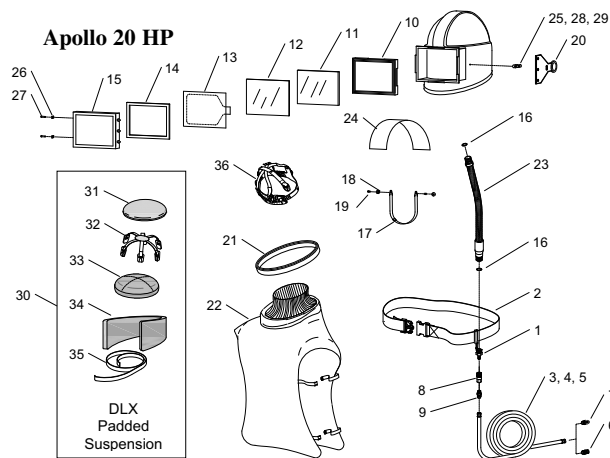
Respirator Hose (in poly bag)

Stock No.	Dimensions	Weight
04397 (25 ft)	10" x 10" x 3"	2.8 lb
04415 (50 ft)	12" x 12" x 5"	5.8 lb
04398 (100 ft)	14" x 14" x 5"	11.6 lb

Authorized Distributor:

Replacement Parts

Item	Description	Stock No.
1.	Constant-flow connector, HP, (alternate), does not include belt	.....21415
2.	Belt, 2" web with buckle	.....04430
3.	Respirator hose, 3/8" x 25 ft. (alternate), includes items 6 and 7	.....04397
4.	Respirator hose, 3/8" X 50 ft. (alternate), includes Items 6 and 7	.....04415
5.	Respirator hose, 3/8" x 100 ft. (alternate), includes items 6 and 7	.....04398
6.	Adapter, 3/8" hose to 3/8" pipe	.....00022
7.	Union, 3/8" hose to 3/8" hose	.....01020
8.	Disconnect, 1/4" female	.....00025
9.	Adapter, 3/8" hose to 1/4" pipe	.....01019
10.	Gasket, molded window	.....99996
11.	Inner lens, 4-5/8" x 6-5/8" nom., .125" package of 5	.....21409
12.	Middle lens, 5" x 7" nom., .094" package of 5	.....21410
13.	Cover lens, perforated, .0075" package of 25	.....21411
14.	Gasket, lens frame	.....21041
15.	Lens frame	.....20976
16.	O-Ring, 7/8" OD, 2 required	.....22815
17.	Chin Strap	.....04460
18.	Chin strap holder, 2 required	.....21696
19.	Screw, 8-32 x 1/2" ph hd, 2 required	.....21119
20.	Latch, lens frame, rubber	.....21298
21.	Cape attachment strap	.....10534
22.	Cape with inner collar	.....21301
23.	Breathing tube assembly includes two of item 16	.....22811
24.	Partition, air baffle	.....21118
25.	Button, latch	.....21040
26.	Nut, lens frame	.....90041
27.	Screw, lens frame	.....90295
28.	Screw, 8-32 x 1/2" sm	.....21402
29.	Screw, 8-32 x 1" sm	.....21403
30.	DLX padded suspension kit includes items 31 thru 35	.....25215
31.	Pad, top	.....25216
32.	Suspension web	.....25219
33.	Pad, middle	.....25182
34.	Pad, side	.....25218
35.	Hook-fastener tape, 1" adhesive backed, 2-ft. used, specify feet required	.....25185
36.	Web suspension w/sweatband (alternate)	.....10532
	Apollo 20 HP Owner's Manual	.....21990



ISO 9001:2000 certified. Clemco is committed to continuous product improvement. Specifications are subject to change without notice.

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