



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 Clemco Cool Air Tube (CAT) allows the blast operator to control the temperature and volume of air to a Clemco high-pressure Type CE continuous flow supplied-air respirator within a preset range and to cool the air by as much as 50° F.

Requirements for Operation

20 cfm at 90 to 100 psi of Grade D quality breathing-air (see the Compressed Gas Association Commodity Specification; G-7.1).

Pressure requirements vary with hose length.

25 ft - 75 ft	90 psi
100 ft - 125 ft	95 psi
150 - 200 ft	100 psi

Do not exceed 200 ft of respirator hose with this device.

Description of Operation

The Cool Air Tube is placed between the respirator air supply line and the helmet breathing tube. A knurled knob on the valve lets the operator adjust the cooling rate of the air entering the respirator.

The Cool Air Tube cannot be closed completely, so the operator always has at least the minimum required volume of air for breathing and to maintain positive pressure inside the helmet.

The CAT comes with a belt that adjusts to fit up to a 54-inch waist. The durable buckle can be fastened and unfastened with gloved hands.

A heat shield protects the operator from warm exhaust air (a byproduct of the production of cool air).

Description

Belt-mounted, adjustable valve — cools breathing air. For use with Clemco respirator models Apollo 60 HP and Apollo 20 HP.

Cool Air Tube

Stock No. 04410



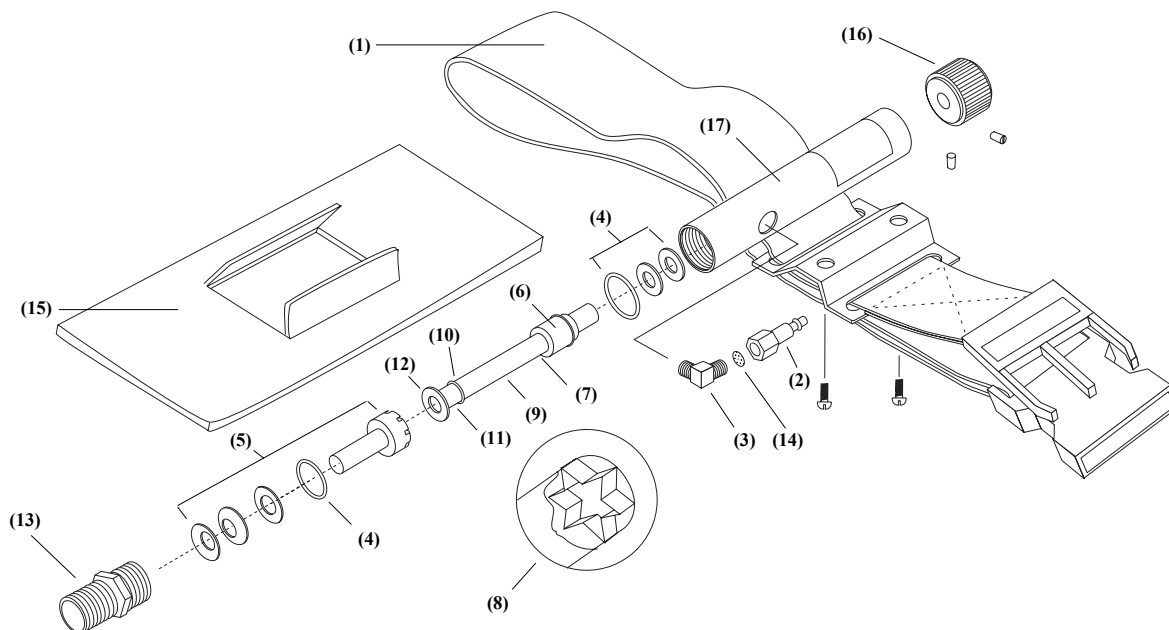
Advantages

- Helps increase productivity by keeping blast operator cool in hot weather
- Durable construction
- Lightweight comfort system maintains NIOSH approval

Certifications and Approvals

The Cool Air Tube is approved by NIOSH for use only with Clemco high-pressure Type CE supplied-air respirators (not for use with low-pressure respirators).

The Cool Air Tube is one component of a NIOSH-approved system; use of counterfeit parts voids the NIOSH approval.



Related Clemco Literature

Description	Stock No.
Contractor Series Catalog	21385
Abrasive Blasting Safety Practices	22090
Blast Off 2	09294
Operator Safety Equipment Product Study	07764
Cool Air Tube Owner's Manual	08956

Options and Accessories

Description	Stock No.
Carbon monoxide alarm, CMS-2	22894
Blast suit S, M, L, XL	08920, -21, -22, -23
Leather gloves	02243

Packaging

Ships in individual box

Dimensions	Shipping	Unit
Height:	10 ¹ / ₄ "	
Width (dia.):	4 ³ / ₄ "	
Depth:	3"	
Weight:	1 ¹ / ₂ lb	1.17 lb

Replacement Parts

Item	Description	Stock No.
(-)	Cool-Air Tube, complete	04410
1.	Belt	04430
2.	Quick disconnect	08449
3.	Elbow, 1/4" male	08869
4.	Seal kit (4 O-rings)	08870
5.	Cool-end venturi kit	08871
6.	Valve stem	08962
7.	Valve insert	08963
8.	Vortex breaker	08964
9.	Vortex tube	08965
10.	Spacer, narrow	08966
11.	Tube, venturi	08967
12.	Spacer, wide	08968
13.	Helmet hose connection	08971
14.	Filter screen	08973
15.	Heat shield	08981
16.	Knob with set screws	08985
17.	Body	08961

NOTE: If items 4 and 5 are ordered together you will receive an extra cool-end venturi O-ring.

Authorized Distributor:

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



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

Purpose

The Clemco Clem-Cool Air Conditioner (CCAC) allows the blast operator to control the temperature and volume of air to a Clemco high-pressure Type CE continuous flow supplied-air respirator within a preset range and to cool the air by as much as 50 degrees F.

Requirements for Operation

20 cfm at 90 to 100 psi of Grade D quality breathing-air as defined by the Compressed Gas Association Commodity Specification: G-7.1 (www.cganet.com)

Pressure requirements vary with hose length. (hose offered in 25 ft increments)
Minimum pressure to produce minimum airflow to respirator.

25 ft - 75 ft	90 psi
100 ft - 200 ft	95 psi

NOTES:

1. Maximum air pressure: 100 psi.
2. Maximum hose length: 200 ft when used with respirator

Description of Operation

The Clem-Cool Air Conditioner is placed between the respirator air supply line and the helmet breathing tube. A knurled knob on the valve lets the operator adjust the cooling rate of the air entering the respirator.

The Clem-Cool Air Conditioner cannot be closed completely, so the operator always has at least the minimum air volume required for breathing and for maintaining positive pressure inside the helmet.

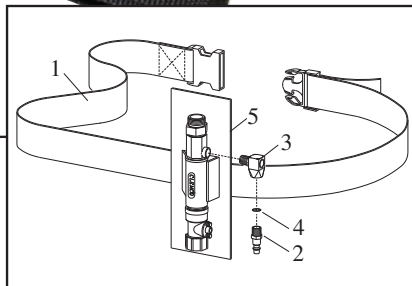
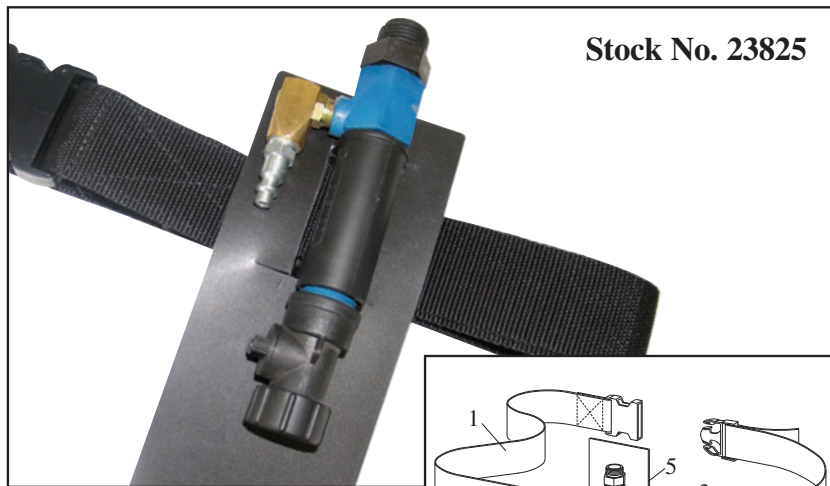
The CCAC comes with a belt that adjusts to fit up to a 54-inch waist. The durable buckle can be fastened and unfastened with gloved hands.

A belt-mounted heat shield protects the operator from warm exhaust air (a byproduct of the production of cool air).

Description

Belt-mounted, adjustable valve — cools breathing air for use with Clemco Apollo HP respirator models. Allows operator to adjust flow and temperature of incoming air. Clem-Cool also can be used as the source of cool air for Clemco Comfort Vest.

Clem-Cool Air Conditioner with Belt (CCAC)



Advantages

- Increases productivity by keeping blast operator cool and comfortable
- Durable construction
- Lightweight NIOSH-approved comfort system

Certifications and Approvals

The Clem-Cool Air Conditioner is approved by NIOSH for use only with Clemco Apollo HP high-pressure Type CE supplied-air respirators (not for use with low-pressure respirators).

The Clem-Cool Air Conditioner is one component of a NIOSH-approved system; use of counterfeit parts voids the NIOSH approval.

To maintain NIOSH approval, use only genuine Clemco Apollo replacement parts.

Packaging

Ships in individual box

Shipping Dimensions

Height:	4-3/8"
Width (dia.):	13-3/8"
Depth:	5"
Shipping Weight:	1.32 lb

Color

Blue/Black body with black shield & belt

Replacement Parts

Item	Description	Stock No.
(-)	Clem-Cool Air Conditioner Assembly with belt	23825
1.	Belt, 2" web	04430
2.	Disconnect, 1/4" NPT male	00015
3.	Elbow, 1/4" NPT swivel	23829
4.	Screen	08973
5.	Heat shield	08981

Authorized Distributor:



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

Purpose

The Clemco Climate Control Tube (CCT) allows the blast operator to cool or warm the incoming compressed air to a Clemco high-pressure Type CE continuous flow supplied-air respirator.

Requirements for Operation

20 cfm at 90 to 100 psi of Grade D quality breathing air as defined by the Compressed Gas Association
 Commodity Specification: G-7.1
 (www.cganet.com)

Pressure requirements vary with hose length.

25 ft - 75 ft	90 psi
100 ft - 125 ft	95 psi
150 - 200 ft	100 psi

NOTE: Do not exceed 200 ft of respirator hose with this device.

Description of Operation

The Climate Control Tube is placed between the breathing tube and the respirator hose. A lever on the valve lets the operator adjust the temperature of the air entering the respirator by as much as 25° to 30° F warmer or cooler than ambient air.

The Climate Control Tube cannot be closed completely, so the operator always has at least the minimum required volume of air for breathing and to maintain positive pressure inside the helmet.

The Climate Control Tube comes with a belt that adjusts to fit up to a 54-inch waist. The durable buckle can be fastened and unfastened with gloved hands.

A heat shield protects the operator from warm exhaust air (a byproduct of the

Description

Belt-mounted, adjustable valve — cools or warms breathing air. For use with Clemco respirator models Apollo 60 HP and Apollo 20 HP. Allows operator to adjust flow and temperature of incoming air.

Climate Control Tube (CCT)

Stock No. 04411



production of cool air).

Advantages

- Helps increase productivity by keeping blast operator cool in hot weather and warm in cold weather
- Durable construction
- Lightweight comfort system maintains

NIOSH approval

Certifications and Approvals

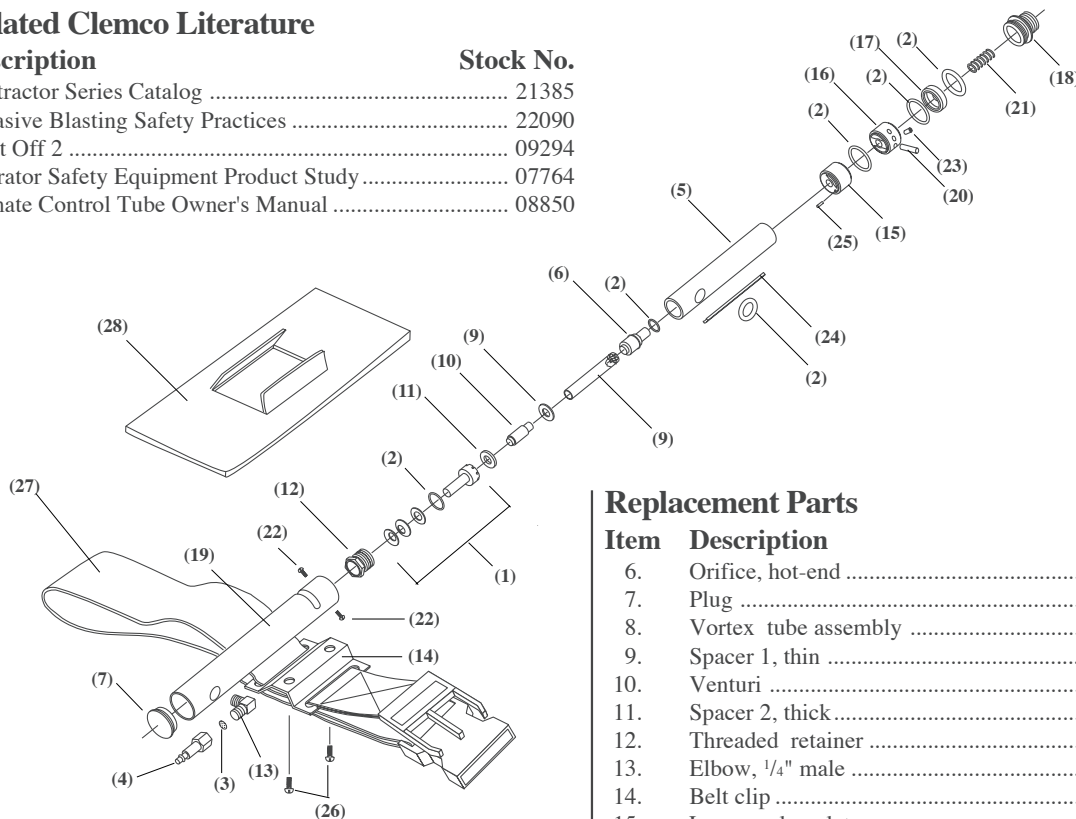
The Climate Control Tube is approved by NIOSH for use only with Clemco Apollo HP high-pressure Type CE supplied-air respirators (not for use with low-pressure respirators).

The Climate Control Tube is one component of a NIOSH-approved system; use of counterfeit parts voids the NIOSH approval.

To maintain NIOSH approval, use only genuine Clemco Apollo replacement parts.

Related Clemco Literature

Description	Stock No.
Contractor Series Catalog	21385
Abrasive Blasting Safety Practices	22090
Blast Off 2	09294
Operator Safety Equipment Product Study	07764
Climate Control Tube Owner's Manual	08850



Options and Accessories

Description	Stock No.
Carbon monoxide alarm, CMS-2	22894

Replacement Parts

Item	Description	Stock No.
(-)	Climate Control Tube, complete	04411
1.	Cool-end venturi assembly	08846
2.	Seal kit (includes all o-rings and seal)	08845
3.	Screen kit	08983
4.	Quick disconnect	08449
5.	Body	08825

Replacement Parts

Item	Description	Stock No.
6.	Orifice, hot-end	08826
7.	Plug	08827
8.	Vortex tube assembly	23030
9.	Spacer 1, thin	08966
10.	Venturi	08967
11.	Spacer 2, thick	08968
12.	Threaded retainer	08829
13.	Elbow, 1/4" male	08869
14.	Belt clip	08974
15.	Lower valve plate	08830
16.	Upper valve plate	08831
17.	Support washer	08832
18.	Outlet fitting	08833
19.	Body housing	08834
20.	Control lever	08835
21.	Spring	08844
22.	Machine screw, 6-32 x 1/4" pan head	03870
23.	Set screw, 1/4" NC x 1/2" cup point	03072
24.	Spacer	08836
25.	Pin, valve plate	08838
26.	Machine screw, 10-24 x 1/2" round head	03886
27.	Belt	04430
28.	Heat shield	08981

NOTE: If items 1 and 2 are ordered together, you will receive an extra cool-end venturi o-ring.

Authorized Distributor:

Packaging - Ships in individual box

Dimensions	Shipping	Unit
Height:	10 1/2"	
Width (dia.):	4 3/4"	
Depth:	2 3/4"	
Weight:	2 lb	1.53 lb

Color

Red body with black shield

ISO 9001-2008 certified. Clemco is committed to continuous product improvement. Specifications are subject to change without notice.

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