



K80E - AL1N

SUPPLIED AIR RESPIRATOR TYPE C CONTINUOUS FLOW CLASS

Approved Respirator configuration:

Part number	Helmet	Air control unit	Breathing tube	Air supply hose	Belt	Noise reducer	Airflow indicator	NIOSH APPROVAL
0313190	K80E 0302021	AL1 0303067	0309116	0309117	0307020	1614003	0806026	TC-19C-317

1. DESCRIPTION

1.1 K80E HELMET (0302021): It is composed of: a fiberglass shell covered with 3 coats of paint, the last one of which, the most external one, is polyurethane; a polycarbonate visor; a polyamide collar which closes efficiently and comfortably round the wearer's neck; a head-band adjustable from 53 to 63 cm (6-5/8 to 7-7/8 hat size).

1.2 AL1 AIR CONTROL UNIT (0303067): It is composed of a diaphragm pressure regulator and connects the air supply hose to the breathing tube attached to the helmet.

1.3 BREATHING TUBE (0309116): It is composed of a rubber hose with couplings for connection to the K80E helmet.

1.4 NOISE REDUCER (1614003): It is composed of various layers of synthetic felt in a copper housing.

1.5 COMPRESSED AIR SUPPLY HOSE (0309117) It is composed of a 25 feet long rubber hose with quick disconnect and adaptor couplings. Up to six 25ft. hose segments may be connected to each other to form an air-line which is max. 150ft. long. The air supply hose connects the breathing tube to an air source supplying clean breathable air.

1.6 AIRFLOW INDICATOR (0806026): composed of a transparent tube with indicator ball inside. To check the airflow performance of the respirator it is supplied with, before each use.

2. TECHNICAL CHARACTERISTICS

2.1 K80E HELMET:

Shell : Fiberglass - Face shield : Polycarbonate – Head suspension: Polyethylene – Face shield gasket: polyethylene foam.

2.2 AL1 air control unit:

Inlet pressure; minimum 70 psi (4,9 Bar)
maximum 105 psi (7,4 Bar)

Airflow: > 200 Lpm (in the inlet pressure range)

Noise level with hose and noise reducer; < 80 Db

3. OPERATION

3.1 The air control unit , supplied with breathable compressed air, provides an airflow to the inside of the helmet. The helmet goes into slight overpressure and the wearer breathes clean air. Expired air is expelled through the diaphragm valves.

4. USE

4.1 For the protection of the eyes, head and respiratory system of the wearer. These respirators can be worn for general purpose applications , including pharmaceutical manufacturing, chemical and pesticide handling, tank cleaning, spray painting and other industrial and agricultural applications in which hazardous compounds are present.

4.2 LIMITATIONS/CAUTIONS

- a) These respirators are not approved for use in any atmosphere immediately dangerous to life or health (IDLH).
- b) Do not exceed maximum use concentrations established by regulatory standards.

c) These respirators can be used only when provided with breathable air meeting the requirements for Type 1 gaseous air described in the ANSI/compressed Gas Association Commodity Specification G-7.1 Grade D or higher quality as specified in Federal regulations 42 CFR, Part 84.141 (b).

d) Use only the pressure ranges and hose lengths specified in these instructions.

e) Failure to properly use this product may result in injury or death.

f) All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA, and other applicable regulations.

g) Never substitute, modify, add, or omit parts. Use only the replacement parts listed in the configuration specified by the manufacturer.

5. USE INSTRUCTIONS

5.1 HELMET SET-UP:

- Remove protective film from visor. The film was applied to preserve the transparency of the polycarbonate until the moment of use.
- Position the noise reducer inside the helmet inlet connection.
- Fit the helmet on head steadily and adjust head band fit.
- Take helmet off and connect breathing tube (P/N 0309116), with the AL1 air control unit already attached, to the helmet by pushing tube coupling into helmet connection and turning the coupling clockwise.

5.2 RESPIRATOR SET UP

- Connect air outlet end of air supply hose (P/N 0309117) to AL1 air control unit.
- Connect other end of air supply hose to at least 15 cfm of compressed air as per Gas Association Commodity Specification G-7.1 Grade D or higher breathable air.

5.3 WEARING INSTRUCTIONS:

DON HELMET IN FRESH AIR ONLY

- Buckle belt, with air control unit already fitted, around waist.
- Don helmet and tighten collar drawstring firmly around neck by pushing on button and sliding up. The drawstring should be pulled as close as possible round neck to assure maximum closure but it should at all times feel comfortable and not restrict breathing in any way.

5.4 AIR FLOW INDICATOR – INSTRUCTIONS AND PERFORMANCE CHECK

Carry out the airflow performance check hereunder before each respirator use:

- Remove helmet connection breathing tube.
- Insert noise reducer in the bottom side of the flow indicator.
- Insert airflow indicator onto the breathing tube and position so that the indicator is upright.
- Observe the position of the indicator ball inside the tube:
 - If the indicator ball rises above the indicator line (6 cfm/170 l.p.m: this is the minimum flow required), the respirator is ready for use.
 - If the ball fails to move or remains on or below the indicator line, insufficient airflow is being provided. This may be the result of a low pressure of the compressed air line or a overloaded noise reducer or a damaged breathing tube or air control unit. Check the



USER'S INSTRUCTIONS

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compressed air line, replace the noise reducer / breathing tube, air control unit.

- Remove the airflow indicator, insert the noise reducer in the helmet and reconnect the breathing tube to the helmet.

6. MAINTENANCE

6.1 HELMET

- Clean shell with organic solvent free detergent or better still with soapy water only.
- Clean visor with soapy water only.
- Wash collar with warm soapy water.

6.2 AIR CONTROL UNIT

- The air control units do not require servicing.
- Clean unit with organic solvent free detergent.
- 6.3 - Periodically replace the noise reducer when the airflow inside the helmet tends to decrease.
- Replace the noise reducer if the noise inside the helmet increases.

7. CAUTION

7.1 - Do not use the respirator under the conditions described at paragraph 4.2.

- Do not use the respirator for any reason whatsoever if it does not pressurize.

7.2 - Do not use the AL1 air control unit unless it is connected to a source of GRADE D breathable air as described in the Compressed Gas Association Commodity Specifications G-71.

7.3 - Do not use the respirator if the air pressure is different to that indicated at point 2.2.

The respirator will not function at an inlet pressure lower than the minimum prescribed at point 2.2.

7.4 - Do not use the respirator if the airflow is lower than 170 Lpm for America and 120 Lpm for Europe and Australia.

7.5 - Return to fresh, clean air immediately and take helmet off if:

- a) Leakage is detected by smell, taste or eye, nose or throat irritation.
- b) Inhaled air becomes extremely hot.
- c) Any feeling of nausea, dizziness or ill being develops.

7.6 THE HELMET WILL NOT FURNISH BREATHING PROTECTION UNLESS IT IS CONNECTED TO A FUNCTIONING AIR CONTROL UNIT.

7.7 Never alter or modify this respirator in any way.

7.8 Replace the helmet after harsh impacts even if it does not present visible damage.

7.9 This equipment is to be used only by qualified personnel trained in accordance with a respirator program as outlined in ANSI Z 88.2-1980.

LIMITED PRODUCT WARRANTY

KASCO, as manufacturer, warrants to the original purchaser, each product of its own manufacture, for a period of one year from its date of shipment from the factory, to be free from defects in material and workmanship under normal use and service.

Normal use and service is intended as all the operations specified in the applicable instruction manuals.

This warranty does not apply to any product which has been repaired or altered to adversely affect the performance or reliability of the respirator or other product.

This warranty does not apply to filters and furthermore does not apply to motors and batteries, the expected life of which is stated in the relative instructions manuals.

Neither this warranty nor any implied warranty applies to damage or harm caused by any or all of the following:

1. Freight damage
2. Damage caused by parts and/or accessories or components not obtained from or approved by KASCO.
3. Damage due to misapplication and/or misuse.

The liability of KASCO under the foregoing warranty is limited to the repair or replacement at KASCO's option without charge for labor or materials of any part upon return of the entire respirator or other product or of the particular part to the KASCO factory within the warranty period, at the sole expense of the purchaser, which part shall upon examination appear to the satisfaction of KASCO to have been defective in material or workmanship.

KASCO expressly warrants its products as above stated. Any other intervention on products returned will be charged at the prices in force.

There are no other express warranties.

Any implied warranties, including implied warranty of merchantability or of fitness for a particular purpose, are limited in duration to one year from the date of purchase by the first purchaser except in States that do not allow time limitations on implied warranties. There is no implied warranty of fitness for a particular purpose or merchantability when this product is put to a rental use.

No person including any dealer or representative of KASCO is authorized to make any representation or warranty concerning KASCO products on behalf of KASCO or to assume for KASCO the obligations contained in this warranty.

KASCO reserves the right to make changes in design and other changes and improvements upon its products without imposing any obligations upon itself to install the same, upon existing products or products then in the process of manufacture.

This warranty does not cover labor expenses for products returned to KASCO within the warranty period for checks or repairs under warranty if said products are found to be in good working order.

Products returned to KASCO for repairs or replacement shall contain the series or lot number originally affixed to the product at the time of production.

8 REPAIRS

8.1 For respirator or part replacement contact KASCO authorized dealers and workshop only.

8.2 Use only original KASCO replacement parts.

8.3 For setting and adjustment of electric parts contact KASCO.

8.4 Do not try to open the air control unit for inspection. Any repair work is to be carried out by KASCO.

8.5 Should you require technical assistance for problems that could arise while using KASCO equipment always include the following information:

- a) Type of respirator and unit with lot number.
- b) Date of purchase.
- c) Name of dealer.
- d) Problem.
- e) Place of work (indoors or outdoors)
- f) Amount of hours worked annually - maximum hours worked.

Also include a sketch or drawing of the type of work carried out if you feel it might be useful.

9. WARNING

11.1 Check the approved respirator configuration and approval label found inside the respirator packaging and ensure that the respirator is composed of the correct sub assemblies before use.

- It is the responsibility of the user and the employer to determine that these respirators are appropriate for the intended use.
- This respirator does not purify air or filter out contaminants.
- Improper respirator use could result in death or serious injury.

11.2 Kasco retains any type of warranty forfeited on the instant and declines any liability either direct or indirect should our Use and Maintenance instructions not be adhered to at all times and should replacement parts other than original Kasco parts be used.

11.3 The liability for the proper operation of the respirator is irrevocably transferred to the purchaser or user if:

- a) the prescribed maintenance is not carried out and/or repairs and maintenance are carried out on the respirator by untrained personnel not employed by Kasco or Kasco approved service centers.
- b) the respirator is used in a manner not conforming to its intended use as specified in the relative product certification/approval.

11.4 IMPORTANT: Adhere strictly to all instructions, labels and limitations pertaining to this equipment. If instructions and warning are not adhered to at all times, respirator effectiveness will diminish and wearer protection will be reduced.



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TYPE C CONTINUOUS FLOW SUPPLIED-AIR RESPIRATOR

THIS RESPIRATOR IS APPROVED ONLY IN THE FOLLOWING CONFIGURATION:

RESPIRATOR COMPONENTS										
TC-	1. PROTECTION	MODEL	HELMET	AIR CONTROL UNIT	BREATHING TUBE	AIR SUPPLY HOSE	BELT	NOISE REDUCER	AIRFLOW INDICATOR	CAUTIONS AND LIMITATIONS
			0302021	0303067	0309116	0309117	0307020	1614003	0806026	
19C-317	SA/CF	K80E AL1N	X	X	X	X	X	X	X	BCDEJMNO

1. PROTECTION

CF - CONTINUOUS FLOW
 SA - SUPPLIED-AIR

2. CAUTIONS AND LIMITATIONS

- B-Not for use in atmospheres immediately dangerous to life or health.
- C-Do not exceed maximum use concentrations established by regulatory standards.
- D-Air-line respirators can be used only when the respirators are supplied with respirable air meeting the requirements of CGA G-7.1 Grade D or higher quality.
- E-Use only the pressure ranges and hose lengths specified in the User's Instructions.
- J-Failure to properly use and maintain this product could result in injury or death.
- M-All approved respirators shall be selected, fitted, used and maintained in accordance with MSHA, OSHA, and other applicable regulations.
- N-Never substitute, modify, add, or omit parts. Use only exact replacement parts in the configuration as specified by the manufacturer.
- O-Refer to user's instructions, and/or maintenance manuals for information on use and maintenance of these respirators.

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