

PRODUCT SPECIFICATION



Mine Safety Appliances Co.
PO Box 426
Pittsburgh, PA 15230

Escape Respirators

	<i>MSA Part #</i>
TransAire™ 5	10008292
TransAire™ 10	10008293

1 DESCRIPTION

The TransAire 5/10 Emergency Escape Respirators from MSA are self-contained devices for use by personnel who may need to escape from atmospheres that are made immediately dangerous to life and health (IDLH) by high concentrations of toxic gases or vapors, or by oxygen deficiency. The devices meet or exceed the relevant requirements as outlined in the NIOSH regulation 42 CFR Part 84, Subpart H.

The lightweight units can either be carried by the worker or mounted on a nearby wall. In the event of a spill or release of toxic material, the worker can quickly retract the protective cover, turn on the air cylinder valve, remove and don the hood, and leave the hazardous area.

During operation, the TransAire 5 and 10 Respirators supply a continuous flow of air to the hood at a rate of 40 LPM (+/- 4 LPM). The TransAire 5 unit has a rated service life of 5 minutes, and the TransAire 10 unit has a rated service life of 10 minutes.

2 REFERENCE DATA

OVERALL UNIT

Weight (less hard case)

TransAire 5: 5 lbs.

TransAire 10: 8 lbs.

Donning time

The unit can be donned and flowing in under 10 seconds, after it is removed from the case or storage area.

Duration

TransAire 5: 5 minutes

TransAire 10: 10 minutes

INDIVIDUAL COMPONENTS

■ HOOD

Materials

Urethane or Teflon materials available

Options

Standard version with elastic neck seal
(available in both Urethane and Teflon)

Large version with elastic drawstring, fits over hard hat
(available in Urethane only)

Operational temperature range

0° to 160° F

■ REGULATOR

Type

Constant-flow regulator with no external adjustments

Materials

Nickel-plated brass

Flow

Nominal flow is 40 LPM +/- 4 LPM from service pressure to 500 psig.

Operational Temperature range

0° to 160° F

INDIVIDUAL COMPONENTS, continued

■ **CYLINDER VALVE**

Components

Valve/regulator	Threaded port for regulator
Burst disc	Hand wheel for opening/closing valve
Port for gauge	Threaded port for cylinder assembly w/undercut for O-ring

Material

Nickel-plated brass

Maximum working pressure

5-minute: 2216 psig breathing air (Grade D or better)
10-minute: 3000 psig breathing air (Grade D or better)

■ **GAUGE**

Working pressure range

0 to 3000 psig

Materials

Main body: Aluminum
Fitting: Brass
Guard: Rubber
Lens: Clear polycarbonate

Accuracy

+/- 5% full scale at room temperature

Operational temperature range

0° to 160° F

Impact resistance

Can withstand the force of a 4-lb. weight dropped from 2 ft.

■ **CYLINDER**

Materials

6061 T6 high-strength aluminum
(Yellow for 5-min, Gray for 10-min)

Maximum service pressure

2216 psig (Yellow)
3000 psig (Gray)

Minimum pressurized volume

5-minute: 8 cu. ft.
10-minute: 15 cu. ft.

■ **CARRIER**

The carrier is made of washable nylon cloth. It can be worn on the waist, neck or shoulder.

■ **HARD WALL-MOUNTING/CARRYING CASE**

The hard case stores one unit. Its lightweight construction can withstand a drop of 3 ft. on all sides and edges.

SERVICE

Complete repair and service capabilities are located in Pittsburgh, PA.

Note: This Bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.

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