



The Air Source® WORKMATE SERIES

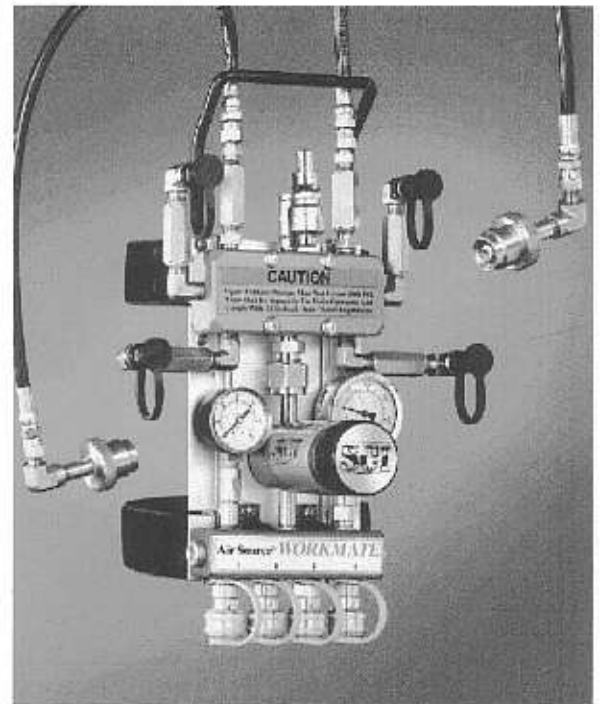
A Multipurpose Air Manifold System

Operating and Maintenance Instruction Manual

THE AIR SOURCE® WORKMATE
Model 200 Series (Model 200 & 200R)

THE AIR SOURCE® WORKMATE
Model 400 Series (Model 400 & 400R)

THE AIR SOURCE® WORKMATE
Model 600 Series



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Workmate Manual
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Edition 2

I would like to dedicate the development of the Air Source® product line to two individuals who became my mentors, teachers, confessors, and best friends. This product is dedicated to Chief James Hughes (March 5, 1940 - August 20, 1990). Jim served as Chief of the Bristol Borough fire fighting forces from 1970 through 1974. Jim's devotion to the volunteer fire service was an inspiration to all of us young officers in the fire service. His logic, fairness, and professional approach to all problems within the fire service molded many young people into exceptional fire officers. Jim is sorely missed by many, but forgotten by none. His untimely death from cancer on August 20, 1990 at the age of 50 shocked and saddened all of us who knew, loved and respected him. The second individual that this product is dedicated to is Chief William Mulholland. Bill dedicated over 30 years of his life to the American Fire Service, and served in just about every capacity in the fire service that one can imagine. As Fire Chief of the Falls Township Fire Company No. 1, Bill supervised all of the fire fighting forces that participated in the K-Mart Distribution Center fire of June 21, 1982. This 1.1 million square foot warehouse fire kept firefighters on location for a week. Bill served on many Bucks County, Pa. fire service committees and boards and assisted in the expansion of all fire related county agencies such as the fire school, communications system, EMS program, and 911 emergency response implementation. Bill also served as a Director in the Eastern Division of the IAFC, and in January 1992 was seated as the President of the Keystone State Fire Chief's Association. Bill also served in many capacities in the Eastern Division of the International Association of Fire Chiefs, ultimately serving as President immediately prior to his death. Bill's undying devotion to the safety and well-being of all firefighters is an inspiration to all of us. Bill's untimely passing on July 3, 1993 will leave a great void in the volunteer fire service community.

"Friendships multiply joys and divide grief's." -- Henry George Bonn (1796-1884)

ABOUT THE INVENTOR OF THE AIRSOURCE® PRODUCT LINE

The Air Source® Product line is designed and built by Joseph M. Nelson, Sr., who serves as the President and Chief Executive Officer of Super Can Industries, Inc. Joe has been a volunteer firefighter for 26 years with the Bristol, Pa. fire service. For 19 of those 26 years, Joe served as Fire Chief of the Bristol Volunteer Fire Co. No. 6, and was the driving force behind the formation of the Dive Rescue Team. In his 26 years as a volunteer firefighter, Joe served in all aspects of fire fighting including engine companies, rescue companies, ladder companies, tactical foam companies, and dive rescue operations. In April of 1991, Joe retired as a Fire Chief to devote his time and energy in designing and marketing new innovative products for the fire service. The Air Source® C.A.R.T. was the first of these endeavors.

SPECIAL ACKNOWLEDGMENTS

I would like to take the time to thank all of my fellow firefighters whose opinions, experience, comments, and suggestions brought the Air Source® C.A.R.T. from a concept into a reality. A special thanks to the dedicated officers and members of the Philadelphia Fire Department's Heavy Rescue 1. These highly motivated, dedicated individuals, under the command of Captain William Schweizer, assisted in every stage of the research and development of the Air Source® C.A.R.T. It is always a pleasure to work with people who are dedicated to their career, and the members of Heavy Rescue 1 exemplify the meaning of the word "professional".

SPECIAL NOTES

The Air Source® C.A.R.T. was designed with every possible safety consideration. From the self-arming alarm system to the personnel locator system, we kept the firefighter and rescuer in mind. Our concerns for the safety and well-being of firefighters and rescuers is due to the fact that we also are firefighters. We have faced the same situations and conditions that you will face in the future. It is our belief that Murphy was an optimist when he wrote, "ANYTHING THAT CAN GO WRONG, WILL". In our experience on difficult operations, we discovered that "EVERYTHING THAT COULD GO WRONG, DID GO WRONG."

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1.0 INTRODUCTION

Super Can Industries, Inc. has designed and manufactured a superior product in the Air Source® Workmate Series. We firmly believe in the design and safety features of the Air Source® Workmate and the benefit that the unit will bring to air line extension breathing operations and remote air supply stations. It is our intent not only to deliver quality products, but also to support and assist our users in all aspects of the Air Source® Workmate's operating and maintenance requirements, so that you may fully understand the product as we do. The Air Source® Workmate is a versatile air supply manifold station that is designed to be portable yet serve as a stationary unit. The Workmate can be used close-up on scene, or be used as a large volume air supply station at a remote site. It can serve as an independent and continuous source of breathing air to pressure demand air line respirators, escape hoods, cooling vests, and with the optional high pressure outlet, be used as a remote air supply station for supplying on-scene portable Cart Systems or refilling S.C.B.A. cylinders.

The Air Source® Workmate can also supply air for pneumatic tools and equipment in large scale disasters and emergencies, provided the air supply needed to operate the pneumatic tools and equipment that operate within the 50 to 150 PSI range.

1.1 IMPORTANT INFORMATION

This Operating and Maintenance Instruction Manual contains important information and must be completely read and understood by all persons who may use or maintain this apparatus.

The Air Source® Workmate should be used or maintained only by trained persons who know and understand the instructions contained within this manual. Warnings, Cautions, and Notes used in this manual have the following significance:

NOTE

Procedures and techniques that are considered important enough to emphasis.

! CAUTION !

Procedures and techniques that could result in damage to the equipment if not properly followed.

!!! WARNING !!!

Procedures and techniques that could lead to serious bodily harm or even death if not properly followed.

!!! WARNING !!!

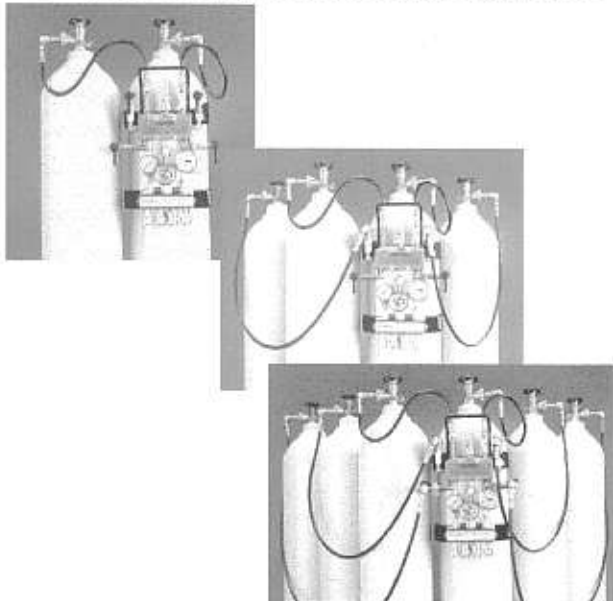
1. Do not use the Air Source® Workmate until the instruction manual has been read and understood.
2. Do not use the Air Source® Workmate to supply breathing air to respirators without a trained and qualified attendant always positioned at the air supply station (Workmate).
3. Do not use the Air Source® Workmate to supply respirators used in IDLH (Immediately Dangerous to Life and Health) atmospheres unless those respirators are equipped with a back up supply (egress cylinder) of sufficient duration for a safe escape in the event of an emergency. An IDLH atmosphere is any atmosphere that poses an immediate hazard to life, and/or produces immediate irreversible debilitating effects on the health of the persons involved.
4. Use of this Air Source® Workmate to supply air to a pressure demand respirator does not convert that respirator into the equivalent of a SCBA (self contained breathing apparatus), or an EEBA (emergency escape breathing apparatus). Pressure demand respirators supplied with breathing air from this air manifold must be also connected to a back-up supply of compressed breathing air carried on the person of the respirator user in order to be used where SCBA or EEBA's are used.
5. In all areas of use, all local, regional, state, and federal guidelines and regulations must be followed regarding the care, use/selection, training, and technical operations for the type of equipment and operation involved.

These brief written instructions cannot substitute for a formal training program. Training should include an opportunity to learn how to inspect, maintain, and operate the Air Source® Workmate.

1.2 AIR SOURCE® WORKMATE OVERVIEW

The Air Source® Workmate Series is multifaceted air manifold station that is portable to meet all the needs that may be encountered in air supply operations in industry and the fire service. It is designed to be supplied from large volume D.O.T. cylinders or from smaller S.C.B.A. cylinders. The supply cylinders may number from two to six and may be removed or placed in-service during operations of the Workmate. The Workmate can supply four low pressure extension air lines from the low pressure manifold with working pressures ranging from 50 to 150 PSI. The Workmate may also supply high pressure air to a remote location to supply on-scene Cart systems with the optional high pressure outlet. Due to the large capacity cylinders that can be incorporated into the system, long duration activities such as maintenance and turnarounds can be supplied quite readily. Regardless of the type of cylinders used to supply the Workmate a low air warning whistle is incorporated into its design so that air supply and status can be monitored.

The Workmate may be attached to a single cylinder laying flat or standing upright and properly secured, with the use of its unique mounting system. Additional cylinders are connected to the high pressure supply side of the Workmate with pre-manufactured high pressure hoses. These hoses are in the proper lengths fitted with CGA 347 couplers for the cylinder ends and high pressure quick-connect snap fittings on the Workmate side of the hose. These high pressure quick-connect snap fittings allow the system to grow or expand by adding additional cylinders into the Workmate even after it has been placed in-service



1.3 THE CONCEPT OF THE AIR SOURCE® WORKMATE

The concept of the Air Source® Workmate came from the design team at Super Can Industries, Inc. due to the vast work experience that these designers have in the industrial and fire services.

Industry requires larger air supply volumes for maintenance and turnaround operations. The fire service requires larger but more cost effective remote air supplies to serve as a back-up storage system for, on-scene portable Carts and refilling of S.C.B.A. cylinders or modular air supply stations, mobile or fixed.

The uniqueness of the Workmate Series is that it is portable to attach to cylinders close to maintenance sites or on-scene emergencies. It has design features that will allow the Workmate to be used as a stationary system within trailers, trucks, vans, service vehicles and fire apparatus. An additional benefit of using the Air Source® Workmate in a vehicle application is that although it has stationary characteristics, it can easily be moved to another vehicle during downtimes of the vehicle it was previously mounted in.

1.4 WHAT YOU MUST KNOW TO USE THE WORKMATE SERIES

1. The Workmate is in proper working order with fully charged compressed breathing air cylinders.
2. That the breathing air cylinders used are D.O.T. (Department of Transportation) approved and are hydrostatic tested and current, and are not damaged in any way.
3. That the air within the cylinders is CGA (Compressed Gas Association) Grade "D" triple filtered breathing air or better in accordance with N.F.P.A. (National Fire Protection Association) and N.I.O.S.H. (National Institute of Occupational Safety and Health Standards.)
4. That the respirator must have an air supply working pressure of between 50 and 130 PSI.
5. The couplings on the Workmate's low pressure manifold must match the couplers used on the respirator hose assembly and that the hose assembly be the type supplied by the manufacturer of the breathing apparatus.