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Product Overview & Specification Sheet

Case Mounted Combination Respirator Supply & Pneumatic Tool Supply Series



Our **CMS-Combination series** represents a line of case mounted pneumatic systems for supplying both airline supplied devices such as airline respirators, airline egress systems, air hoods, cooling vests, etc., and pneumatic powered tools such as lift bags, air chisels, abrasive cutoff saws, wizard tools, air struts, impact hammers, and many others.

The CMS Combination unit was designed as an airline respirator supply only system, a pneumatic tool supply only system, or a combination of both functions simultaneously. This makes the CMS Combination series a cost efficient and functional method of meeting the pneumatic supply demands of the fire, rescue, EMS, Military, WMD, USAR and, Haz-Mat response teams and many other local, state, and federal agencies. There are many industrial and commercial applications for the CMS Combination series as well.

The CMS Combination unit is comprised of four major components: The case & mounting system, the high-pressure air inlet/supply system, the low-pressure respirator supply system, and, the low-pressure pneumatic tool supply system.

THE CASE & MOUNTING SYSTEM

The CMS series utilizes the bright yellow Pelican™ case. Yellow has long been associated with breathing air and we wanted to maintain that recognition factor. Pelican™ has long been recognized as the leader in the design and manufacturing of durable and innovative plastic compound cases.

The entire pneumatic assembly is manufactured and attached to a heavy duty aluminum plate that is dry powder coated in a matte black finish to reduce glare. This plate is then mounted into the case, using the center of the molded case feet to bolt through. The bolts are then sealed with a silicone compound. This construction method preserves the integrity and sealing qualities of the Pelican™ case.



THE HIGH PRESSURE INLET ASSEMBLY

The High Pressure Inlet Assembly consist of a gold anodized aluminum manifold, a 2.5" diameter high pressure inlet gauge, two inlet assemblies with check valves and quick disconnect plugs, a low air supply warning whistle, and an auxiliary high pressure inlet to connect a remote source such as a cascade system, a high pressure breathing air compressor system, or other high pressure breathing quality air supply to the system. Each system is equipped with one 21" high-pressure inlet hose assembly and one 36" high-pressure inlet hose assembly. These hose assemblies have a stainless steel hand tight hose connector, a stainless steel bleed valve, and a steel quick disconnect coupler to attach them to the system. This permits the exchange of depleted air cylinders while operating on a secondary cylinder. This permits the continuous operation of the system without shutting down to change cylinders. The quick disconnect couplers reduce hose entanglements and permit proper management and control of the air supply system.



THE LOW PRESSURE AIRLINE RESPIRATOR SUPPLY SYSTEM

The airline respirator supply system consist of an adjustable pressure reducer, a 2" diameter operating pressure gauge, a red anodized aluminum large bore manifold, four quick disconnect couplers, and a pressure relief device. The system can supply up to four airline supplied respirators or other devices that have an operating pressure between 10 and 125 psi. Our large bore design permits the system to supply sufficient air to the user even under the most demanding conditions. The quick disconnect couplers are equipped with dust plugs to prevent contamination of the system while not in use.





THE LOW PRESSURE PNEUMATIC TOOL SUPPLY SYSTEM

The low pressure pneumatic tool supply system consist of a high performance pressure reducer that is preset and locked down at an operating pressure of 375 psi, a blue anodized large bore tool manifold, a 2" diameter system operating pressure gauge, a check valve assembly, one 116 psi preset air bag controller connection with quick disconnect plug and a quarter turn on/off valve, two individual, operator controlled, air tool connection outlets with quick disconnect couplers and 1.5" diameter pressure gauges, one direct manifold pressure outlet connection with quarter turn on/off valve, and a quick disconnect coupler for use with air shoring equipment, and a pressure relief device set at 400 psi to protect the overall system.

SYSTEM SPECIFICATIONS

Overall exterior dimensions: 24 1/4" LONG X 19 7/16" WIDE X 8 1/8" DEEP

Exterior Color: Bright Yellow with blue Scotchlite reflective trim

Weight: 36 pounds with hoses.

COMMON QUESTIONS AND ANSWERS REGARDING THE CMS COMBINATION SYSTEM

Q. Why do you mount the pneumatic system on an aluminum plate?

A. The aluminum plate gives us a strong foundation to build the system, and that prevents potential air leaks in the system due to vibration and rough handling. In addition, it gives us a method of mounting the pneumatic system to the case without making multiple holes in the case. This guarantees the integrity of the case.

Q. Why do you use large bore custom manifolds in the system? Aren't pipe fittings cheaper?

A. Yes, pipe fittings are cheaper, but our large bore manifolds perform several functions. They permit higher airflows through the entire system and they act as a "reservoir" for air when the supply demands are high.

Q. Why are your manifolds different colors?

A. Years ago, we pioneered and established a color coding system for operator safety and to prevent confusion during rescue operations. The color codes clearly identify the operation of each manifold. Gold is high pressure air, red is respirator supply air, and blue is pneumatic tool air.

Q. Can I operate two different pneumatic tools at different operating pressures at the same time?

A. Yes. The two pneumatic tool outlets have their own individual miniature regulators and output pressure gauges. They are independently adjustable from 0 to 250 psi. You can operate one air tool at 50 psi , while simultaneously operating another air tool at 250 PSI.

Q. Can't the tool oil used in pneumatic tools contaminate the breathing air in the respirator supply side?

A. NO! We isolate and protect the system with a high performance check valve. This prevents the air in the tool manifold from back flowing into the system. The systems can be used simultaneously safely!

Q. Why do you use quick disconnect couplers on your high pressure supply hoses?

A. The use of quick disconnect couplers permit the operator to manage the air hoses. If they are only using one supply cylinder, the other hose can be removed for easier operations. They also assist in keeping the hoses from tangling and looping.

Q. Why do you use stainless steel bleed valves and cylinder connectors? Aren't there cheaper and lighter ones ?

A. Yes, there are cheaper and lighter ones available, but we have found that these units do not hold up to the demands associated with fire/rescue operations. Plastic knobs tend to get smashed and aluminum fittings tend to get cross-threaded and distorted.

Q. Can't the bleed valve knob come out and get lost?

A. NO! Years ago when we started manufacturing our own bleed valves, we eliminated that problem by attaching the knobs to the valve body with a nylon coated aircraft cable system.

Q. Why do you use Scotchlite tape on the exterior surfaces?

A. Scotchlite has long been used in the fire/rescue services as a method to protect our personnel and equipment. It offers another layer of protection for the user during operations.



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