



# EXTENDAIR® CARTRIDGE AND CANISTER SYSTEM



ExtendAir® is the brand name for Micropore’s CO2 absorbent filtration cartridges and canisters. Micropore uses the same basic chemistry found in granule CO2 absorbents,

calcium hydroxide and a small amount of potassium and sodium hydroxide (chemical composition information can be found on material safety data sheet). Micropore blends these chemicals along with a small amount of polyethylene (plastic binder) into a molded sheet of material with raised ridges on one side and flat sheet on the other side of the material. The sheet is then wound (rolled) on a plastic center core to a cylindrical cartridge meeting diameter and height requirements specific to the ExtendAir® MK25 retrofit canister. Cartridges are kept tensioned as a cartridge roll of material with a heat-staked clear film wrap. The EAC features high CO2 absorbent performance (liters CO2/lb absorbent) and low resistive effort (reduced work of breathing for the diver) in addition to adding safety via its molded sheet and elimination of caustic dust entering the breathing loop.

## DIVER FEATURES AND BENEFITS INCLUDE

**Driver Safety:** 70% less caustic even after 5-minute flood

### No Dusting, No Spillage:

- No absorbent gets in the breathing loop
- Platform friendly (submarine, rib, ships quarters, etc.)
- Eases maintenance logistics

**Storage:** Absorbent is stored with rebreather instead of separately in bulk containers; single-use packing also reduces wasted absorbent

Diver’s breathing workload is reduced by 15% (MK25)

Canister loads 3-5 times faster

Excellent tolerance to storage, shock, vibration

**No setting:** Consistent scrubber duration; no absorbent bypass or channeling

## PN/ DESCRIPTION

**Micropore Part Number:** MP-1130K

LAR V/MK25 ExtendAir® CO2 Absorbent Canister Kit

- Contains (1 each) Micropore P/N MP-1130A ExtendAir® MK25 Canister
- Contains (1 each) Micropore P/N MP-1130A-P Single Fill Plug
- Contains (1 each) Micropore P/N MP-4130A Demand Valve Extension

**Micropore Part Number:** SM-0505C

Case of 6 Cartridges, ExtendAir® CO2 Absorbent

**Micropore Part Number:** MP-5130M

Annual Maintenance Kit for MP-1130K Canister Kit

The Micropore ExtendAir Canister Kit and Cartridges are available for procurement through the following contract vehicles:

## NOBLE SUPPLY & LOGISTICS TLS PRIME VENDOR CONTRACTS

SPECIAL OPERATIONAL EQUIPMENT (SOE)  
CONTRACT NO: SPE8EJ-21-D-0022

FIRE & EMERGENCY SERVICES EQUIPMENT (FESE)  
CONTRACT NO: SPE8EH-19-D-0017

Also available through WARCUM IDIQ  
H9224022D0022.

**Nick Allen**

Sales Director (SOCOM, AIR Force, ARMY)

nallen@noble.com | +1 (423) 595-1847



## DEMAND VALVE ADAPTER



The ExtendAir® canister replaces the granular canister. The adaptation is a direct drop-in replacement made from the same urethane materials currently in use on the MK25 Mod 2. In addition there is a demand valve adapter which helps with ergonomic fit between the breathing bag and the demand valve. The efficiency of the canister also eliminates the need for a neoprene insulator at colder water temperatures, further easing deployment logistics.

Independent of Drager, with US Navy request and cooperation, Micropore Inc. designed a solution to use its patented ExtendAir® CO2 absorbent technology in the Drager MK25 rebreather.

Engineering Change Proposal XE012 for the MK25 Mod 2 UBA approved 2 Sep. 2014.



Worldwide Headquarters  
1 Marina Park Drive, Suite 220  
Boston, MA 02210 USA

Phone: 877.999.1911  
Email: support@noble.com  
www.noble.com

# MISSION POSSIBLE