



AVENUE - NORFOLK, VA 23502  
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*Quality Equipment and Service Since 1962*

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**GENERAL SERVICES ADMINISTRATION  
FEDERAL SUPPLY SERVICE  
AUTHORIZED FEDERAL SUPPLY SCHEDULE CATALOG/PRICE LIST**

On-line access to contract ordering information, terms and conditions, up-to-date pricing, and the option to create an electronic delivery order is available through **GSA Advantage!**, a menu-driven database system. The INTERNET address for **GSA Advantage!** is <http://www.gsaadvantage.gov>

**SCHEDULE TITLE:** Federal Supply Schedule 084 – Total Solutions for Law Enforcement, Security, Facility Management Systems, Fire, Rescue, Special Purpose Clothing, Marine Craft and Emergency/Disaster Response

FSC Classes: 4210, 5120, 8415, 8405, 8410, 4220 8465, 1365, 4240

**CONTRACT NUMBER: GS-07F-0443X**

**CONTRACT PERIOD: April 22, 2011– April 21, 2016**

For more information on ordering from Federal Supply Schedules click on the FSS Schedules button at [www.fss.gsa.gov](http://www.fss.gsa.gov)

**CONTRACTOR:** Universal Air Products Corporation  
1140 Kingwood Ave.  
Norfolk, Virginia 23502-2429  
PHONE: 757-461-0077 ex.17  
FAX#: 757-461-0808  
POC: Steve Davis, Vice President  
EMAIL: [www.uapc.com](http://www.uapc.com)

**CONTRACTOR'S ADMINISTRATION SOURCE:**  
Universal Air Products  
Corporation 1140 Kingwood  
Ave. Norfolk, Virginia 23502-  
2429 PHONE: 757-461-0077  
FAX#: 757-461-0808 POC:  
  
Steve Davis, Vice President  
POC [email: sdavis@uapc.com](mailto:sdavis@uapc.com)

**BUSINESS SIZE:** Small, Woman Owned Business

Pricelist current through Modification: PO-0013, effective June 22, 2016

*MANUFACTURER / DISTRIBUTOR OF AIR / GAS COMPRESSOR / VACUUM SYSTEMS & ELECTROSTATIC PRECIPITATOR  
SYSTEMS EQUIPMENT SALES – TECHNICAL, INSTALLATION & MAINTENANCE SERVICES – RENTAL FLEET*



**CUSTOMER INFORMATION:**

**1a. TABLE OF AWARDED SPECIAL ITEM NUMBERS (SINs)**

<b>SIN</b>	<b>DESCRIPTION</b>
465-22	Breathing Air Equipment, Inhalator Devices, Respiratory Protection Products, Related Support Items and Solutions: - SCBA's (self contained breathing apparatus), Air Compressors, Air Filtering Personal Equipment and Emergency Egress Equipment ng Equipment (foam proportioners, injectors, eductors).

**1b. LOWEST PRICED MODEL NUMBER AND PRICE FOR EACH**

**SIN:** (Government net price based on a unit of one)

<u>SIN MODEL</u>	<u>PRICE</u>
465-22 Hose: 3 ft. (1 meter) Hose Item No. 005H316-36	\$28.83

**1c. HOURLY RATES:**

Lead Installer: \$85.00 per  
hour Installer: \$68.00 per hour  
Engineer \$119.00 per hour

**2. MAXIMUM ORDER\*:** \$100,000 for SINs 465-22

\*If the best value selection places your order over the Maximum Order identified in this catalog/pricelist, you have an opportunity to obtain a better schedule contract price. Before placing your order, contact the aforementioned contractor for a better price. The contractor may (1) offer a new price for this requirement (2) offer the lowest price available under this contract or (3) decline the order. A delivery order that exceeds the maximum order may be placed under the schedule contract in accordance with FAR 8.404.

**3. MINIMUM ORDER:** \$100

**4. GEOGRAPHIC COVERAGE:** 48 Contiguous States and the District of Columbia, Alaska, Hawaii, the Commonwealth of Puerto Rico, or U.S. territories and to a CONUS port or consolidation point for orders received from overseas activities.

**5. POINT(S) OF PRODUCTION:** Norfolk, Virginia

**6. DISCOUNT FROM LIST PRICES: 10% - 33% from the accepted price list** (discounts vary by model). For calculation of the GSA Schedule price (price paid by customers ordering from the GSA Schedule, and the price to be loaded in to GSA Advantage), the contractor should deduct the appropriate basic discount from the list price and add the prevailing IFF rate to the negotiated discounted price (Net GSA price). Current IFF rate is 0.75%.

**7. QUANTITY DISCOUNT(S):** Additional 5% for orders over \$100,000.00

**8. PROMPT PAYMENT TERMS:** Net 30

**9.a Government Purchase Cards must be accepted at or below the micro-purchase threshold.**

**9.b Government Purchase Cards are accepted above the micro-purchase threshold.**

**10. FOREIGN ITEMS:** None

**11a. TIME OF DELIVERY:** 30-90 DARO

**11b. EXPEDITED DELIVERY:** 30 DARO

- 11c. OVERNIGHT AND 2-DAY DELIVERY:** Contact the Contractor for availability and rates.
- 1d. URGENT REQUIRMENTS:** Agencies can contact the Contractor's representative to affect a faster delivery. Customers are encouraged to contact the contractor for the purpose of requesting accelerated delivery.
- 12. FOB POINT:** FOB Origin, Contractor will prepay freight and bill customer as a separate line item on the invoice.
- 13a. ORDERING ADDRESS:** Same as contractor's address
- 14. PAYMENT ADDRESS:** Same as contractor's address
- 15. WARRANTY PROVISION:** Manufacturer's Standard Commercial Warranty of one year. Customer should contact contractor for a copy of the warranty.
- 16. EXPORT PACKING CHARGES:** Not applicable
- 17. TERMS AND CONDITIONS OF GOVERNMENT PURCHASE CARD ACCEPTANCE:** (any thresholds above the micro-purchase level)
- 18. TERMS AND CONDITIONS OF RENTAL, MAINTENANCE, AND REPAIR (IF APPLICABLE):** N/A
- 19. TERMS AND CONDITIONS OF INSTALLATION (IF APPLICABLE):** See labor rates above
- 20. TERMS AND CONDITIONS OF REPAIR PARTS INDICATING DATE OF PARTS PRICE LISTS AND ANY DISCOUNTS FROM LIST PRICES (IF AVAILABLE):** N/A
- 20a. TERMS AND CONDITIONS FOR ANY OTHER SERVICES (IF APPLICABLE):** N/A
- 21. LIST OF SERVICE AND DISTRIBUTION POINTS (IF APPLICABLE):** Complete Installation Services
- 22. LIST OF PARTICIPATING DEALERS (IF APPLICABLE):** N/A
- 23. PREVENTIVE MAINTENANCE (IF APPLICABLE):** Periodic routine maintenance at \$68.00 per hour
- 24a. SPECIAL ATTRIBUTES SUCH AS ENVIRONMENTAL ATTRIBUTES (e.g. recycled content, energy efficiency, and/or reduced pollutants):** See Items on GSAA Advantage! or call contractor
- 24b. Section 508 Compliance for EIT:** N/A
- 25. DUNS NUMBER:** 004313698
- 26. NOTIFICATION REGARDING REGISTRATION IN CENTRAL CONTRACTOR REGISTRATION (CCR) DATABASE:** Registration valid until 03/31/2012



## Breathing Air Solutions

We've Got Your Back





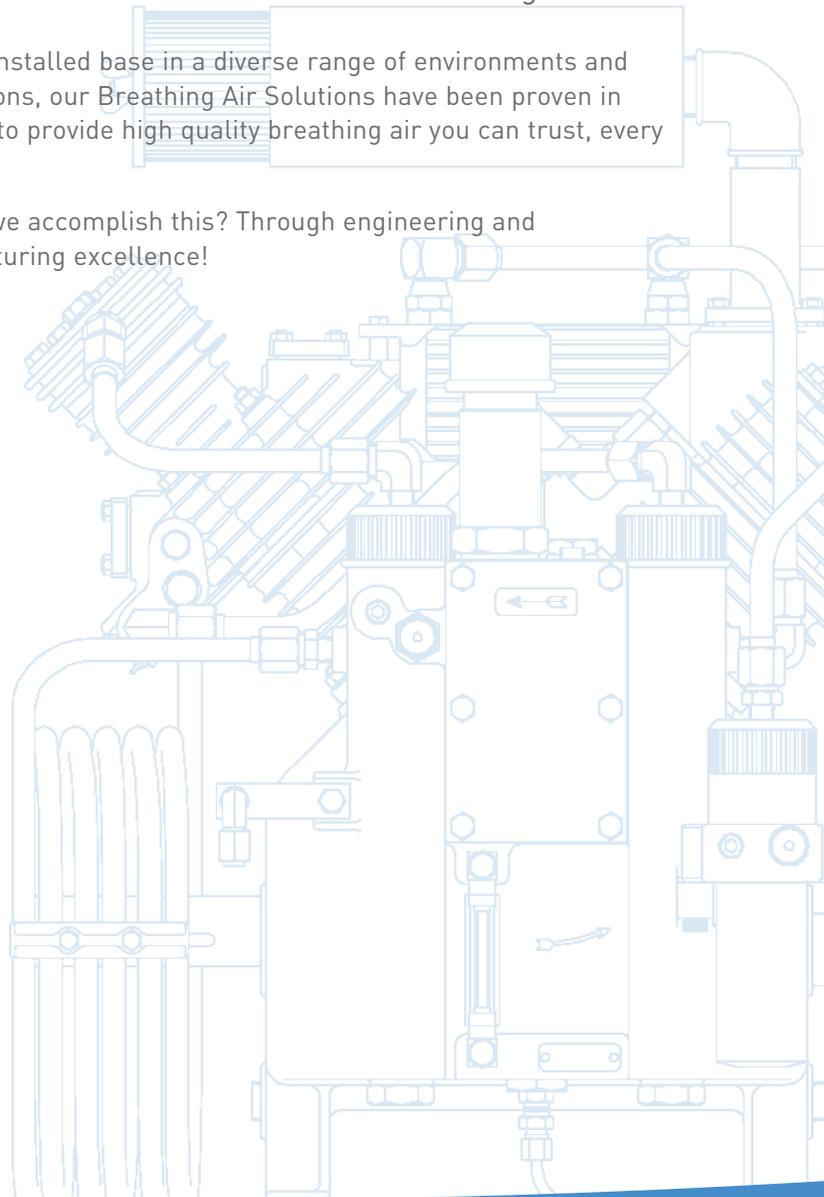
LIFE COMES WITH ENOUGH RISKS  
THE AIR YOU BREATHE  
SHOULD NOT BE ONE OF THEM.

# Proven Technology

For well over 50 years, MAKO has been the trusted breathing air system supplier to Fire and Safety, Recreational and Professional Dive, Marine, Offshore and Defense industries across the globe.

With an installed base in a diverse range of environments and applications, our Breathing Air Solutions have been proven in the field to provide high quality breathing air you can trust, every time.

How do we accomplish this? Through engineering and manufacturing excellence!



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## The Heart of the MAKO Design

Over 100 years experience engineering & manufacturing compressor blocks.

The result is a 3 or 4 stage compressor block with:

- Long operating life
- Continuous duty
- Extended service intervals and easy access for maintenance
- Low vibration and noise levels
- Proven technology for safe and reliable operation
- High quality manufacturing with ISO 9001 Quality Management System



## Breathe Easy with Mako Filtration

Designed and manufactured by MAKO, the filtration exceeds international standards EN 12021/CGA Grade D&E/NFPA 1989/CSA.

- Filtration manufacturing process uses no adhesives ensuring there are no odors or taste carried over
- Low cartridge cost per hour
- Filters mounted inside cabinet to safeguard against accidental damage



## EconoAir™ [EA] Engineered to fit your budget



Incorporating our MAKO compressor and purification system ensures the highest quality product, yet offered at a price suitable for the most frugal budget.

### STANDARD FEATURES

- MAKO's MK2C purification system
- MAKO industrial-duty 4-stage compressor block
- NEMA design ODP 1.15 SF electric motor
- Open design, rugged structural steel frame with heavy duty powder coat finish
- Easy accessibility to all maintenance items
- Auto-drain with muffler/reservoir system for collection of condensate
- Small package footprint and overall dimensions

- Anti-vibration mounts
- Fully automatic control system
- Instrumentation & controls:
  - » PLC controller
  - » Illuminated on/off push buttons
  - » Hours run meter
  - » Emergency stop button
  - » Final stage pressure gauge
  - » Individual shutdown indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure

### OPTIONAL EQUIPMENT

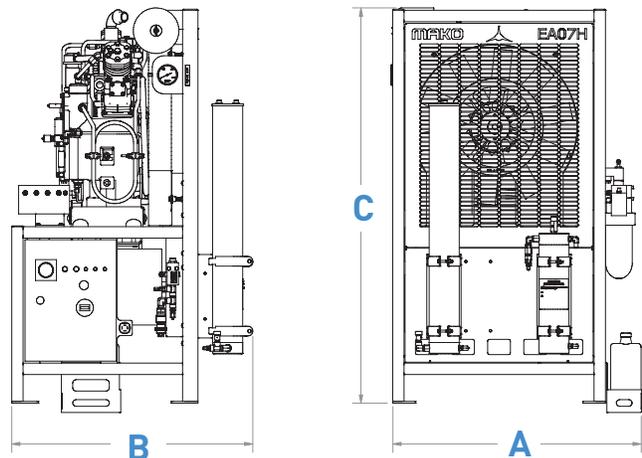
- MK5C purification
- Wall-mount CO & Moisture (CMM) Mounting System

### TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m <sup>3</sup> /hr	l/min	cfm		kW	hp	kg	lb	
EA06X	414	6000	4	16.7	278	10.2	1100	5.5	7.5	255	560	84
EA06H	414	6000	4	23.8	397	14	1340	7.5	10	260	570	84
EA07H	414	6000	4	35.2	587	20.7	1800	11	15	266	585	85

### DIMENSIONS (A x B x C)

	In	mm
A	32.6	829
B	31.7	806
C	52.0	1,322



# EconoAir

**Product name: ECONOAIR COMPRESSOR**

**Manufacturer: MAKO**

**Mfg Part #: EA05-1**

**Contractor Part #: UEA05-1**

**Product Description:** Open vertical design compressor – 7.5 HP 8.6 scfm @  
5000psig, 1 phase

**GSA Price: \$13,730.57**

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**Product name: ECONOAIR COMPRESSOR**

**Manufacturer: MAKO**

**Mfg Part #: EA05-3**

**Contractor Part #: UEA05-3**

**Product Description:** Open vertical design compressor – 7.5 HP 8.6 scfm @  
5000psig, 3 phase

**GSA Price: \$13,346.75**

---

**Product name: ECONOAIR COMPRESSOR**

**Manufacturer: MAKO**

**Mfg Part #: EA06X-1**

**Contractor Part #: UEA06X-1**

**Product Description:** Open vertical design compressor – 7.5 HP 10.2 scfm @  
6000psig, 1 phase

**GSA Price: \$20,139.74**

---

**Product name: ECONOAIR COMPRESSOR**

**Manufacturer: MAKO**

**Mfg Part #: EA06X-3**

**Contractor Part #: UEA06X-3**

**Product Description:** Open vertical design compressor – 7.5 HP 10.2 scfm @  
6000psig, 3 phase

**GSA Price: \$19928.56**

---

**Product name: ECONOAIR COMPRESSOR**

**Manufacturer:** MAKO

**Mfg Part #:** EA06H-1

**Contractor Part #:** UEA06H-1

**Product Description:** Open vertical design compressor – 10HP 14 scfm @ 6000  
psig, 1 phase

**GSA Price:** \$20588.40

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**Product name: ECONOAIR COMPRESSOR**

**Manufacturer:** MAKO

**Mfg Part #:** EA06H-3

**Contractor Part #:** UEA06H-3

**Product Description:** Open vertical design compressor – 10HP 14 scfm @ 6000  
psig, 3 phase

**GSA Price:** \$20141.49

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**Product name: ECONOAIR COMPRESSOR**

**Manufacturer:** MAKO

**Mfg Part #:** EA07H-3

**Contractor Part #:** UEA07H-3

**Product Description:** Open vertical design compressor – 15 HP 20.7 SCFM @  
6000psig, 3 phase

**GSA Price:** \$23672.06

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# AirCharge [AC] Compact, fully integrated solution

The AirCharge is specifically designed for the 5000 psi user where quality, convenience and low noise are paramount and space is tight.

## STANDARD FEATURES

- MAKO's MK2C purification system
- MAKO industrial-duty 3-stage compressor block
- NEMA design ODP 1.15 SF electric motor
- Fully enclosed, sound attenuating enclosure with heavy-duty powder-coated finish
- Hinged & removable panels allows quick access to routine maintenance items
- Auto-drain with muffler/reservoir system for collection of condensate
- Compact package footprint and overall dimensions
- Anti-vibration mounts

- UL Listed, NEMA 4 Electrical Enclosure
- Fully automatic control system
- Instrumentation & controls:
  - » PLC controller
  - » Illuminated on/off push buttons
  - » Hours run meter
  - » Emergency stop button
  - » Inter-stage & final-stage pressure gauges
  - » Individual shutdown indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure



## OPTIONAL EQUIPMENT

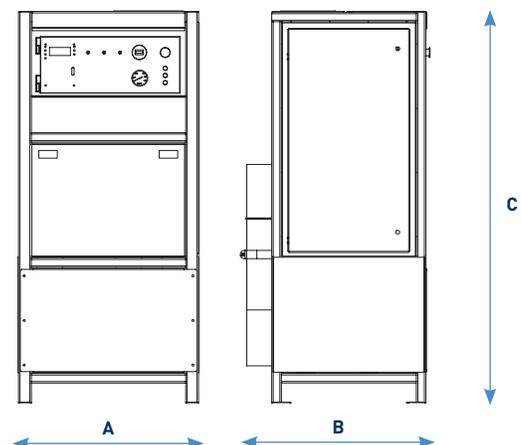
- MK5C purification
- Integrated or wall-mounted CO & Moisture (CMM) Monitor
- Shutdown audible alarm
- Dual pressure switch

## TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m <sup>3</sup> /hr	l/min	cfm		kW	hp	kg	lb	
AC04	350	5000	3	9.9	165	5.8	1300	4	5	268	591	69
AC05	350	5000	3	14.6	243	8.6	1300	5.5	7.5	284	626	70

## DIMENSIONS (A x B x C)

In	mm
28 x 29 x 61½	711 x 737 x 1550



# AirCharge

**Product name:** AIR CHARGE COMPRESSOR MODULE

**Manufacturer:** MAKO

**Mfg Part #:** AC04-1

**Contractor Part #:** UAC04-1

**Product Description:** The AirCharge compressor with 5 HP motor includes CO monitor alarm functions; motor overload reset. (5000 PSI, 5.8 CFM, 69 dB(A), 1-phase, 50 or 60 Hz) Options available.

**GSA Price:** \$13363.40

---

**Product name:** AIR CHARGE COMPRESSOR MODULE

**Manufacturer:** MAKO

**Mfg Part #:** AC04-3

**Contractor Part #:** UAC04-3

**Product Description:** The AirCharge compressor with 5 HP motor includes CO monitor alarm functions; motor overload reset. (5000 PSI, 5.8 CFM, 69 dB(A), 3-phase, 50 or 60 Hz) Options available.

**GSA Price:** \$13260.88

---

**Product name:** AIR CHARGE COMPRESSOR MODULE

**Manufacturer:** MAKO

**Mfg Part #:** AC05-1

**Contractor Part #:** UAC05-1

**Product Description:** The AirCharge compressor with 7.5 HP motor includes CO monitor alarm functions; motor overload reset. (5000 PSI, 8.6 CFM, 70 dB(A), 1-phase, 50 or 60 Hz) Options available.

**GSA Price:** \$14322.94

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**Product name: AIR CHARGE COMPRESSOR MODULE**

**Manufacturer: MAKO**

**Mfg Part #: AC05-3**

**Contractor Part #: UAC05-3**

**Product Description:** The AirCharge compressor with 7.5 HP motor includes CO monitor alarm functions; motor overload reset. (5000 PSI, 8.6 CFM, 70 dB(A), 3-phase, 50 or 60 Hz) Options available.

**GSA Price: \$14000.46**

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## Breathing Air Module [BAM]

Unsurpassed value, peace of mind

The BAM is a high quality breathing air package combining high capacity filling with low sound levels and a flexible modular design.

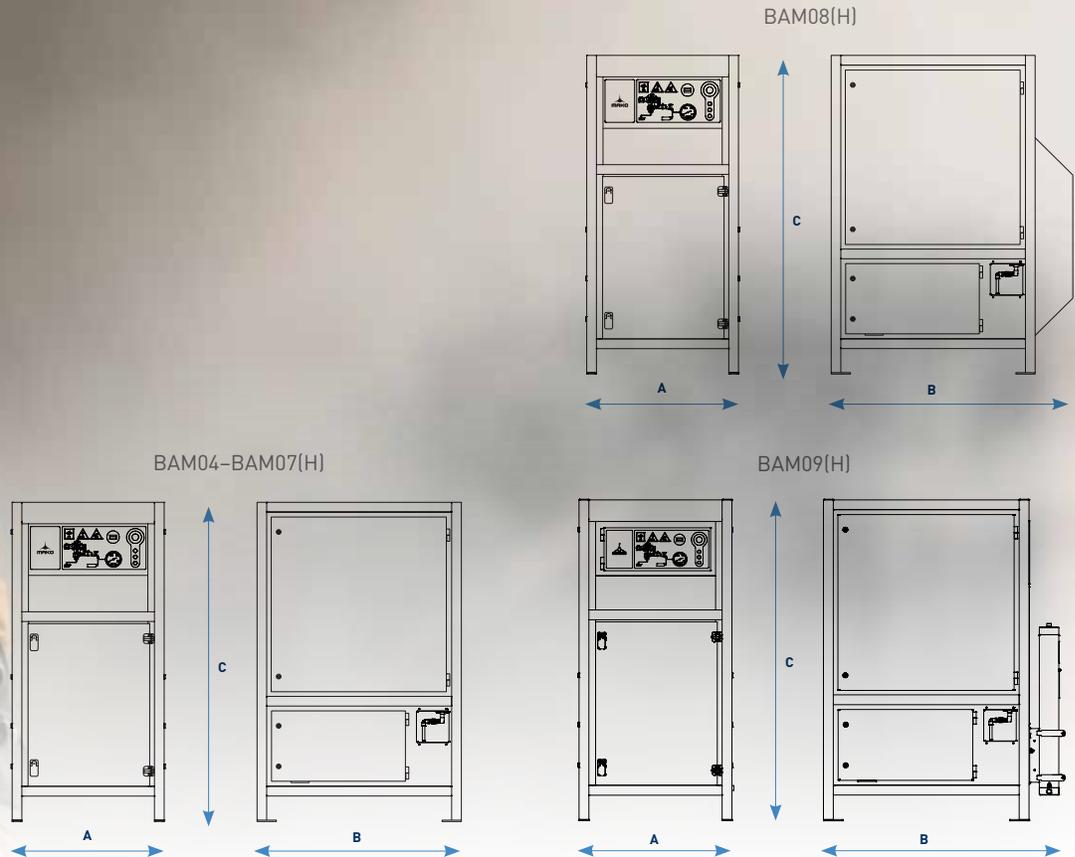
### STANDARD FEATURES

- MAKO's MK2C purification system [models BAM04–BAM06(H)]
- MAKO's MK5C purification system [models BAM07(H)–BAM09(H)]
- MAKO's industrial-duty 3- or 4-stage compressor block
- NEMA design ODP 1.15 SF electric motor
- Fully enclosed, sound attenuating enclosure with heavy-duty powder-coated finish
- Hinged and removable panels allow quick access to routine maintenance items
- Auto-drain with muffler/reservoir system for collection of condensate
- Compact design, with small overall footprint
- Anti-vibration mounts
- UL Listed, NEMA 4 Electrical Enclosure
- Fully automatic control system

- Instrumentation and controls
  - » PLC controller
  - » Illuminated on/off push buttons
  - » Emergency stop button
  - » Inter-stage and final-stage pressure gauges
  - » Individual shutdown indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure

### OPTIONAL EQUIPMENT

- MK5C or MK10C purification [models BAM04–BAM06(H)]
- MK10C purification [models BAM07(H)–BAM09(H)]
- Integrated or wall-mounted CO & Moisture (CMM) Monitor
- Shutdown audible alarm
- Dual pressure switch



## TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m <sup>3</sup> /hr	l/min	cfm		kW	hp	kg	lb	
BAM04	350	5000	3	9.9	165	5.8	1300	4	5	461	1017	69
BAM05	350	5000	3	14.6	243	8.6	1300	5.5	7.5	471	1039	70
BAM06	350	5000	4	22.3	372	13.1	1340	7.5	10	526	1160	72
BAM07	350	5000	4	31.8	530	18.7	1800	11	15	541	1193	74
BAM08	350	5000	4	43	717	25.3	1530	15	20	576	1270	76
BAM09	350	5000	4	52	867	30.6	1800	18.5	25	592	1305	78
BAM06X	414	6000	4	16.7	278	10.2	1100	5.5	7.5	485	1070	72
BAM06H	414	6000	4	23.8	397	14	1340	7.5	10	526	1160	72
BAM07H	414	6000	4	35.2	587	20.7	1800	11	15	541	1193	74
BAM08H	414	6000	4	45.9	765	27	1530	15	20	576	1270	76
BAM09H	414	6000	4	56.4	940	33.2	1800	18.5	25	592	1305	78

## DIMENSIONS (A x B x C)

	In	mm
BAM04 BAM05 BAM06(H)(X) BAM07(H)	31¼ x 42 x 65¾	794 x 1067 x 1673
BAM08(H) BAM09(H)	31¼ x 50 x 65¾	794 x 1255 x 1673

# Modular Breathing Air Center

**[M-BAC]** A Uniquely Integrated, Total Air System Solution

The Modular Breathing Air Center offers the flexibility to accommodate your exact requirements in proven technology with the integrated system including the Air Compressor, Containment Fill Station, and Storage Rack, all enclosed within a uniquely designed envelope.

## STANDARD FEATURES

- Your choice of Breathing Air Module (BAM) compressor (refer to the BAM Standard Features and Optional Equipment sections for details)
- Your choice of stationary SCBA or SCUBA Containment Fill Station (CFS) (refer to the Stationary CFS Standard Features and Optional Equipment sections for details)

- Package
  - » Vertical, in-line 4-bottle rack with up to (4) UN or ASME storage cylinders
  - » Center storage module
  - » Modular integration kit

## OPTIONAL EQUIPMENT

- 50, 75 or 100' spring rewind hose reel

## TECHNICAL DATA - COMPRESSORS

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m <sup>3</sup> /hr	l/min	cfm		kW	hp	kg	lb	
BAM04	350	5000	3	9.9	165	5.8	1300	4	5	461	1017	69
BAM05	350	5000	3	14.6	243	8.6	1300	5.5	7.5	471	1039	70
BAM06	350	5000	4	22.3	372	13.1	1340	7.5	10	526	1160	72
BAM07	350	5000	4	31.8	530	18.7	1800	11	15	541	1193	74
BAM08	350	5000	4	43	717	25.3	1530	15	20	576	1270	76
BAM09	350	5000	4	52	867	30.6	1800	18.5	25	592	1305	78
BAM06X	414	6000	4	16.7	278	10.2	1100	5.5	7.5	485	1070	72
BAM06H	414	6000	4	23.8	397	14	1340	7.5	10	526	1160	72
BAM07H	414	6000	4	35.2	587	20.7	1800	11	15	541	1193	74
BAM08H	414	6000	4	45.9	765	27	1530	15	20	576	1270	76
BAM09H	414	6000	4	56.4	940	33.2	1800	18.5	25	592	1305	78





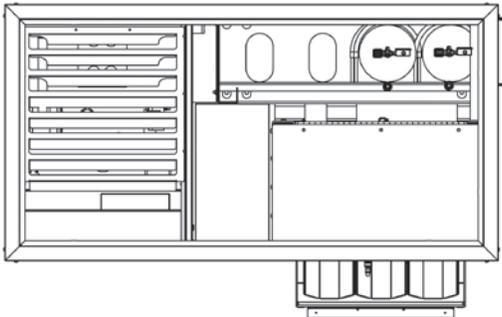
**DIMENSIONS (A x B x C)**

BAM with SCFS2 or SCFS3

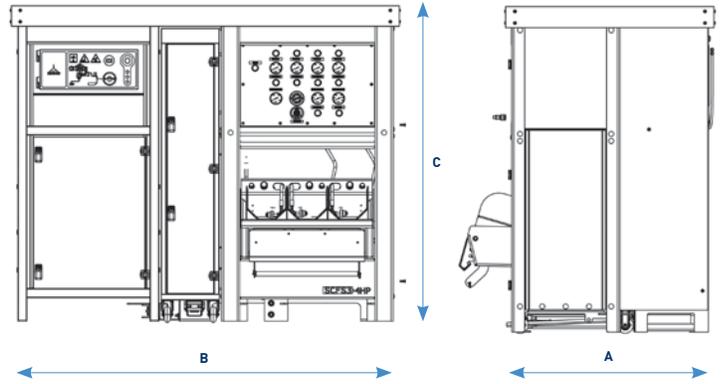
	In	mm
BAM04-07H	45½ x 86 x 70	1156 x 2185 x 1778
BAM08-09H	52½ x 86 x 70	1334 x 2185 x 1778

BAM with SSCFS2 or SSCFS3

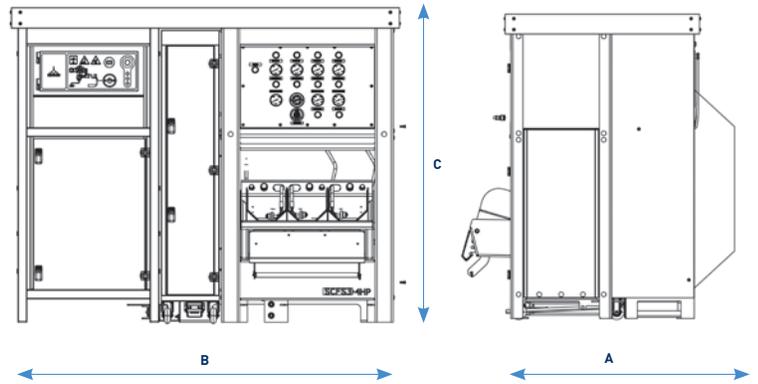
	In	mm
BAM04-07H	45½ x 90 x 70	1156 x 2286 x 1778
BAM08-09H	52½ x 90 x 70	1334 x 2286 x 1778



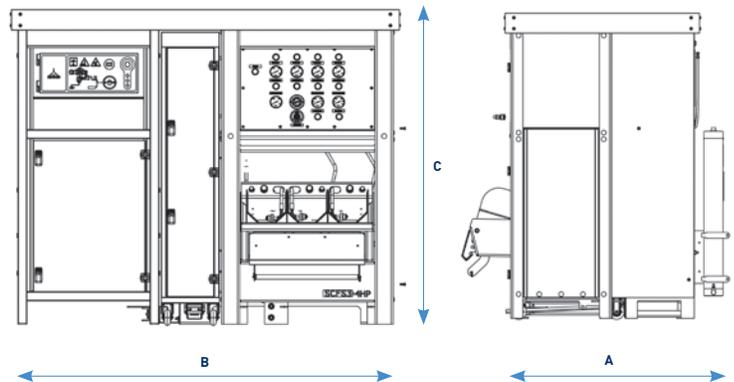
BAM04-BAM07(H)



BAM08(H)



BAM09(H)



# Breathing Air Module

**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM04-3 Contractor  
Part #: UBAM04-3**

**Product Description:** Breathing Air Module (5 HP, 5.8 CFM, 5000 PSIG, 69 dB(A), 3-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$13708.66

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM05-1 Contractor  
Part #: UBAM05-1**

**Product Description:** Breathing Air Module (7.5 HP, 8.6 CFM, 5000 PSIG, 70 dB(A), 3-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$15,400.77

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM05-3 Contractor  
Part #: UBAM05-3**

**Product Description:** Breathing Air Module (7.5 HP, 8.6 CFM, 5000 PSIG, 3-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$15201.86

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM05X-1 Contractor  
Part #: UBAM05X-1**

**Product Description:** Breathing Air Module (10 HP, 11.1 CFM, 5000 PSIG, 70 dB(A), 3-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$17931.49

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM05X-3 Contractor  
Part #: UBAM05X-3**

**Product Description:** Breathing Air Module (10 HP, 11.1 CFM, 5000 PSIG, 3-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$17446.91

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM06-1 Contractor  
Part #: UBAM06-1**

**Product Description:** Breathing Air Module (10 HP, 13.1 CFM, 5000 PSIG, 72 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$20,855.67

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM06-3 Contractor  
Part #: UBAM06-3**

**Product Description:** Breathing Air Module (10 HP, 13.1 CFM, 5000 PSIG, 72 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$20759.12

---

**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM06H-1 Contractor  
Part #: UBAM06H-1**

**Product Description:** Breathing Air Module (10 HP, 14 CFM, 6000 PSIG, 72 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$21759.12

---

**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM06H-3 Contractor  
Part #: UBAM06H-3**

**Product Description:** Breathing Air Module (10 HP, 14 CFM, 6000 PSIG, 72 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$21564.59

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM06X-1 Contractor  
Part #: UBAM06X-1**

**Product Description:** Breathing Air Module (7.5 HP, 10.2 CFM, 6000 PSIG, 72 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$20286.08

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM06X-3 Contractor  
Part #: UBAM06X-3**

**Product Description:** Breathing Air Module (7.5 HP, 10.2 CFM, 6000 PSIG, 72 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$20286.08

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM07-3 Contractor  
Part #: UBAM07-3**

**Product Description:** Breathing Air Module (15 HP, 18.7 CFM, 5000 PSIG, 74 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$22445.26

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM07H-3 Contractor  
Part #: UBAM07H-3**

**Product Description:** Breathing Air Module (15 HP, 20.7 CFM, 6000 PSIG, 74 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$23573.04

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM08-3 Contractor  
Part #: UBAM08-3**

**Product Description:** Breathing Air Module (20 HP, 25.3 CFM, 5000 PSIG, 76 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$26977.42

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM08H-3 Contractor  
Part #: UBAM08H-3**

**Product Description:** Breathing Air Module (20 HP, 27 CFM, 6000 PSIG, 76 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$28904.38

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM09-3 Contractor  
Part #: UBAM09-3**

**Product Description:** Breathing Air Module (25 HP, 30.6 CFM, 5000 PSIG, 78 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$29005.15

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**Product name: BREATHING AIR  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: BAM09H-3 Contractor  
Part #: UBAM09H-3**

**Product Description:** Breathing Air Module (25 HP, 33.2 CFM, 6000 PSIG, 78 dB(A), 4-stage) includes built-in overtime timer; final separator counter warning and alarm functions. Options available.

**GSA Price:** \$30538.66

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## Horizontal Breathing Air [HBA]

High Quality, Low Profile Compressor Solution

Our open frame, low profile compressor provides a lower cost breathing air solution without sacrificing quality, flexibility or filling capacity,

### STANDARD FEATURES

- MAKO's MK2C purification system [models HBA04-HBA06(H)]
- MAKO's MK5C purification system [models HBA07(H)-HBA09(H)]
- MAKO's industrial-duty 3- or 4-stage compressor block
- NEMA design ODP 1.15 SF electric motor
- Open design, rugged structural steel frame with heavy duty powder coat finish
- Auto-drain with muffler/reservoir system for collection of condensate
- Compact design, with small overall footprint
- Anti-vibration mounts
- UL Listed, NEMA 4 Electrical Enclosure
- Fully automatic control system

- Instrumentation and controls
  - » PLC controller
  - » Illuminated on/off push buttons
  - » Hours run meter
  - » Emergency stop button
  - » Inter-stage and final-stage pressure gauges
  - » Individual shutdown indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure

### OPTIONAL EQUIPMENT

- MK5C or MK10C purification [models HBA04-HBA06(H)]
- MK10C purification [models HBA07(H)-HBA09(H)]
- Diesel or gas engine drive
- Integrated or wall-mounted CO & Moisture (CMM) Monitor
- Shutdown audible alarm
- Dual pressure switch

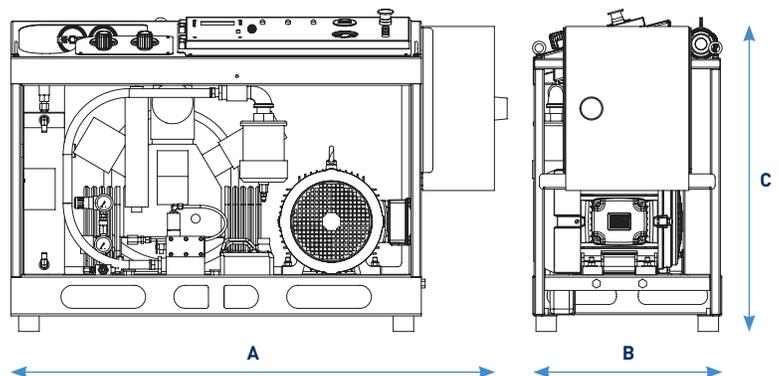


**TECHNICAL DATA**

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Max Integrated fill hoses
	bar	psi		m³/hr	l/min	cfm		
HBA04	350	5000	3	9.9	165	5.8	1300	2
HBA05	350	5000	3	14.6	243	8.6	1300	2
HBA06	350	5000	4	22.3	372	13.1	1340	4
HBA07	350	5000	4	31.8	530	18.7	1800	4
HBA08	350	5000	4	43	717	25.3	1530	6
HBA09	350	5000	4	52	867	30.6	1800	6
HBA06H	414	6000	4	23.8	397	14	1340	72
HBA07H	414	6000	4	35.2	587	20.7	1800	72
HBA08H	414	6000	4	45.9	765	27	1530	74
HBA09H	414	6000	4	56.4	940	33.2	1800	76

Model	Electric				Diesel				Petrol/Gasoline			
	Power		Weight		Power		Weight		Power		Weight	
	kW	hp	kg	lbs	kW(b)	hp	kg	lbs	kW(b)	hp	kg	lbs
HBA04	4	5	200	435	6	8	320	710	6	8	310	680
HBA05	5.5	7.5	210	460	7.5	10	330	725	8.2	11	330	725
Dimensions	mm / in 1228 x 470 x 800 / 48 x 18.5 x 31.5				1473 x 738 x 1130 / 58 x 29 x 44.5				1473 x 738 x 1130 / 58 x 29 x 44.5			
HBA06(H)*	7.5	10	315	690	13.6	18.3	560	1240	12	20	320	710
HBA07(H)*	11	15	335	735	20.1	26.9	625	1380	15	20	335	740
Dimensions	mm / in 1473 x 738 x 1130 / 58 x 29 x 44.5				1575 x 1054 x 1181 / 62 x 41.5 x 46.5				1473 x 738 x 1130 / 58 x 29 x 44.5			
HBA08(H)*	15	20	380	835	26.5	35.5	655	1440				
HBA09(H)*	18.5	25	400	880	26.5	35.5	685	1510				
Dimensions	mm / in 1473 x 738 x 1130 / 58 x 29 x 44.5				1575 x 1054 x 1181 / 62 x 41.5 x 46.5							

\* For models indicated, control box is mounted within the frame.



# Horizontal Breathing Air

**Product name: HORIZONTAL BREATHING AIR COMPRESSOR MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA04E1**

**Contractor Part #: UHBA04E1**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 1-phase Engine) Open framed, low profile compressor (5HP, 5000 PSI, 3-stage, 5.8 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$13357.27**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA04E3**

**Contractor Part #: UHBA04E3**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (5HP, 5000 PSI, 3-stage, 5.8 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$12,620.31**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA04D**

**Contractor Part #: UHBA04D**

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine) Open framed, low profile compressor (8HP, 5000 PSI, 3-stage, 5.8 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$15696.08**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA04G**

**Contractor Part #: UHBA04G**

**Product Description:** Horizontal Breathing Air Compressor - (Gas Engine) Open framed, low profile compressor (8HP, 5000 PSI, 3-stage, 5.8 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$11569.64**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA05E1**

**Contractor Part #: UHBA05E1**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 1-phase Engine) Open framed, low profile compressor (7.5HP, 5000 PSI, 3-stage, 8.6 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$114868.87**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA05E3**

**Contractor Part #: UHBA05E3**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (7.5HP, 5000 PSI, 3-stage, 8.6 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$14331.70**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR**

**MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA05D

**Contractor Part #:** UHBA05D

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)

Open framed, low profile compressor (10HP, 5000 PSI, 3-stage, 8.6 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$16682.78

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA05G

**Contractor Part #:** UHBA05G

**Product Description:** Horizontal Breathing Air Compressor - (Gas Engine) Open

framed, low profile compressor (11HP, 5000 PSI, 3-stage, 8.6 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$112774.54

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA05XE1

**Contractor Part #:** UHBA05XE1

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 1-phase

Engine) Open framed, low profile compressor (10HP, 5000 PSI, 3-stage, 11.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$17404.85

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA05XE3  
**Contractor Part #:** UHBA05XE3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (10HP, 5000 PSI, 3-stage, 11.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$116201.70

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO  
**Mfg Part #:** HBA05XD  
**Contractor Part #:** UHBA05XD

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine) Open framed, low profile compressor (15HP, 5000 PSI, 3-stage, 11.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$21342.89

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO  
**Mfg Part #:** HBA05XG  
**Contractor Part #:** UHBA05XG

**Product Description:** Horizontal Breathing Air Compressor - (Gas Engine) Open framed, low profile compressor (20HP, 5000 PSI, 3-stage, 11.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$15444.59

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA06E1**

**Contractor Part #: UHBA06E1**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 1-phase Engine) Open framed, low profile compressor (10HP, 5000 PSI, 4-stage, 13.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$19576.29**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA06E3**

**Contractor Part #: UHBA06E3**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (10HP, 5000 PSI, 4-stage, 13.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$19001.44**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA06D**

**Contractor Part #: UHBA06D**

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine) Open framed, low profile compressor (18.3HP, 5000 PSI, 4-stage, 13.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$27214.02**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA06G**

**Contractor Part #: UHBA06G**

**Product Description:** Horizontal Breathing Air Compressor - (Gas Engine) Open framed, low profile compressor (20HP, 5000 PSI, 4-stage, 13.1 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$21574.23**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MODU**

**Manufacturer: MAKO**

**Mfg Part #: HBA06HE1**

**Contractor Part #: UHBA06HE1**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 1-phase Engine) Open framed, low profile compressor (10HP, 6000 PSI, 4-stage, 14 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$20876.70**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA06HE3**

**Contractor Part #: UHBA06HE3**

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (10HP, 6000 PSI, 3-stage, 14 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price: \$20217.73**

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO  
**Mfg Part #:** HBA06HD  
**Contractor Part #:** UHBA06HD

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)  
Open framed, low profile compressor (18.3HP, 6000 PSI, 4-stage, 14 CFM)  
with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$28754.54

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MODU**

**Manufacturer:** MAKO  
**Mfg Part #:** HBA06HG  
**Contractor Part #:** UHBA06HG

**Product Description:** Horizontal Breathing Air Compressor Module (Gas Engine)  
- Open framed, low profile compressor (20HP, 6000 PSI, 4-stage, 14CFM)  
with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available

**GSA Price:** \$23288.25

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO  
**Mfg Part #:** HBA07E3  
**Contractor Part #:** UHBA07E3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase  
Engine) Open framed, low profile compressor (15HP, 5000 PSI, 4-stage, 18.7  
CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E,  
NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$21297.32

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO  
**Mfg Part #:** HBA07D

**Contractor Part #:** UHBA07D

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)  
Open framed, low profile compressor (26.9HP, 5000 PSI, 4-stage, 18.7 CFM)  
with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$30770.00

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA07G

**Contractor Part #:** UHBA07G

**Product Description:** Horizontal Breathing Air Compressor - (Gas Engine) Open  
framed, low profile compressor (20HP, 5000 PSI, 4-stage, 18.7 CFM) with  
guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$25151.24

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA07HE3

**Contractor Part #:** UHBA07HE3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase  
Engine) Open framed, low profile compressor (15HP, 6000 PSI, 4-stage, 20.7  
CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E,  
NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$23897.97

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA07HD

**Contractor Part #:** UHBA07HD

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)  
Open framed, low profile compressor (26.9HP, 6000 PSI, 4-stage, 20.7 CFM)  
with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$32923.92

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA07HG

**Contractor Part #:** UHBA07HG

**Product Description:** Horizontal Breathing Air Compressor - (Gas Engine) Open  
framed, low profile compressor (20HP, 6000 PSI, 4-stage, 20.7 CFM) with  
guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$26911.70

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA08E3

**Contractor Part #:** UHBA08E3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase  
Engine) Open framed, low profile compressor (20HP, 5000 PSI, 4-stage, 25.3  
CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E,  
NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$25035.57

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA08D

**Contractor Part #:** UHBA08D

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)

Open framed, low profile compressor (35.5HP, 5000 PSI, 4-stage, 25.3 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$32871.34

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA08HE3

**Contractor Part #:** UHBA08HE3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (20HP, 6000 PSI, 4-stage, 27 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$26823.20

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA08HD

**Contractor Part #:** UHBA08HD

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine) Open framed, low profile compressor (35.5HP, 6000 PSI, 4-stage, 27 CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$37198.45

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA09E3

**Contractor Part #:** UHBA09E3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase Engine) Open framed, low profile compressor (25HP, 5000 PSI, 4-stage, 30.6

CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$27554.90

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA09D

**Contractor Part #:** UHBA09D

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)  
Open framed, low profile compressor (35.5HP, 5000 PSI, 4-stage, 30.6 CFM)  
with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$39535.52

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer:** MAKO

**Mfg Part #:** HBA09HE3

**Contractor Part #:** UHBA09HE3

**Product Description:** Horizontal Breathing Air Compressor - (Electric, 3-phase  
Engine) Open framed, low profile compressor (25HP, 6000 PSI, 4-stage, 33.2  
CFM) with guaranteed air quality exceeding EN 12021, CGA Grade D and E,  
NFPA 1500, CSA and most recognized standards. Options available.

**GSA Price:** \$28,340.05

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**Product name: HORIZONTAL BREATHING AIR COMPRESSOR  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: HBA09HD**

**Contractor Part #: UHBA09HD**

**Product Description:** Horizontal Breathing Air Compressor - (Diesel Engine)

Open framed, low profile compressor (35.5HP, 6000 PSI, 4-stage, 33.2 CFM)  
with guaranteed air quality exceeding EN 12021, CGA Grade D and E, NFPA  
1500, CSA and most recognized standards. Options available.

**GSA Price:** \$41607.94

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# Mobile Solutions

The ultimate in flexibility

Offering the user all the same features, functionality and performance of our Modular-BAC total breathing air system, yet with the added flexibility of mobility.

## STANDARD FEATURES

- Dual axle trailer rated for 10,000 lbs. gross vehicle weight
- Gas or diesel drive [models 5406(H) & 5407(H)]
- Diesel drive [models 5408(H) & 5409(H)]
- Enclosed underside
- 11 gauge sheet metal enclosure
- Welded structural steel C-channel chassis frame
- DOT approved
- Electric activated brakes
- Spare tire
- 20-gallon fuel tank w/ fuel gauge
- 2 ASME air storage cylinders
- Storage for (10) SCBA bottles with MCFS2 or (8) SCBA bottle with MCFS3
- Mako's industrial-duty 4-stage compressor block
- Mako's MK5C purification system
- Stainless steel control and operations panel located curb side and lighted for night operations
- Compressor Instrumentation & Controls:
  - » PLC controller
  - » Illuminated on/off push buttons
  - » Hours run meter
  - » Emergency stop button
  - » Inter-stage and final stage pressure gauges
  - » Individual shut down indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure
  - » Keyed start/power switch
  - » 12-volt electric starting system

- Air management controls
  - » 2-bank cascade control system
  - » 0-6000 psi "push action" regulator
  - » Fill control valve and gauge
- Auto-drain with muffler/reservoir system for collection of condensate
- 2-position Containment Fill Station (MCFS2)

## OPTIONAL EQUIPMENT

- Mako's MK10C purification system
- Dual electric and engine drive using reliable air clutch design (dimensions may vary)
- Excessive tilt shutdown monitor
- Two additional ASME air storage cylinders
- Four-bank cascade control
- CO monitor
- CO & Moisture monitor (CMM)
- Purification cartridge monitor
- Air reel – manual or electric rewind
- Plug-in outlet for external battery charger
- 3-position Containment Fill Station (MCFS3)
- Generator and extendable pole-mounted flood lights
- Shoreline electrical connector
- SCBA or SCUBA capability



# Mobile Solutions

**Product name:** WALK IN TRAILER 16'

**Manufacturer:** UAPC

**Mfg Part #:** MAT\_1000-5000

**Contractor Part #:** MAT 1000-5000

**Product Description:** Walk in Air, Power and Light DOT Rated Trailer 16', With 5 hp 5000psig compressor, 10 cfm, two bottle containment fill station, dual drive, 22,500watt diesel generator will provide all necessary system power or serve as a portable power house for on-site emergency power requirements, four (4) 6000psig DOT Bottles, Quiet Room technology separates the operator from noise in the mechanical room. Self-contained operation allows for power by on-board generator or supplied shore power.

**GSA Price:** \$81874.28

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**Product name:** WALK IN TRAILER 16'

**Manufacturer:** UNIVERSAL AIR

**Mfg Part #:** MAT\_1000

**Contractor Part #:** MAT 1000

**Product Description:** Walk in Air, Power and Light DOT Rated Trailer 16', With 10 hp 6000psig compressor, 14cfm, two bottle containment fill station, dual drive, 22,500watt diesel generator will provide all necessary system power or serve as a portable power house for on-site emergency power requirements, four (4) 6000psig DOT Bottles, Quiet Room technology separates the operator from noise in the mechanical room. Self-contained operation allows for power by on-board generator or supplied shore power.

**GSA Price:** \$81874.28



## Water-Cooled Packages

Quiet, durable, reliable, continuous duty

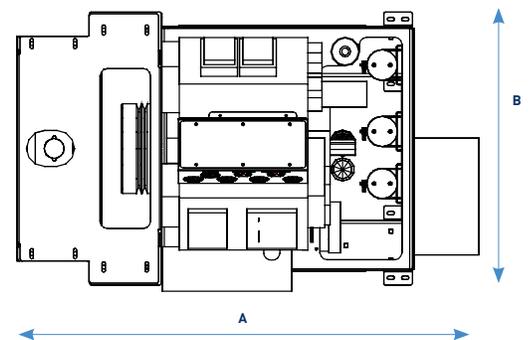
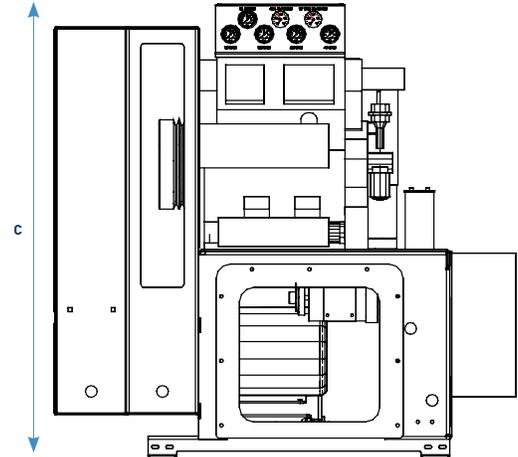
For the user whose demands include “around the clock” operation PLUS high capacity, look to our water-cooled packages to fulfill those needs.

### STANDARD FEATURES

- Mako’s MK10C purification system (model 5417)
- Mako’s MK420C purification system (models 5437 and 5437H)
- Mako’s industrial 4-stage compressor block
- NEMA design ODP 1.15 SF electric motor
- Compressor cooling system built into block for improved efficiency
- Auto-drain with muffler/reservoir system for collection of condensate
- Anti-vibration mounts
- Fully automatic control system
- Closed loop cooling system integrated to compressor skid
- Instrumentation & Controls:
  - » Illuminated on/off push buttons
  - » Hours run meter
  - » Emergency stop button
  - » Inter-stage and final stage pressure gauges
  - » Individual shut down indicators for High Air Temperature, High Air Pressure, and Low Oil Level/Pressure

### OPTIONAL EQUIPMENT

- CO monitor and calibration kit
- Shutdown audible alarm
- Dual pressure switch



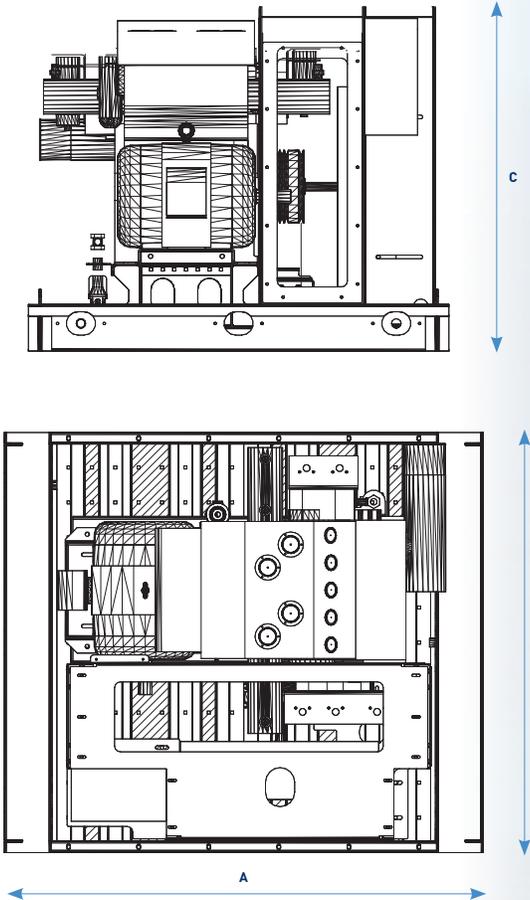
5417BA

**TECHNICAL DATA**

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight	
	bar	psi		m <sup>3</sup> /hr	l/min	cfm		kW	hp	kg	lb
5417BA	345	5000	4	74	1233	44	1800	30	40	1320	2900
5437BA	345	5000	4	143	2380	84	1500	55	75	2177	4800
5437HBA	414	6000	4	144	2400	85	1500	55	75	2177	4800

**DIMENSIONS (A x B x C)**

	In	mm
5417BA	64.34 x 38 x 64	1635 x 966 x 1626
5437BA & 5437HBA	82 x 72 x 36	1635 x 966 x 1626



5437BA & 5437HBA



# Water-Cooled Packages

**Product name: WATER COOLED  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: WC5417 Contractor  
Part #: UWC5417**

**Product Description:** 44 CFM, 6000 PGIS, 40 HP, 4-stage compressor. Options available.

**GSA Price:** \$75822.22

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**Product name: WATER COOLED  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: WC5437 Contractor  
Part #: UWC5437**

**Product Description:** 84 CFM, 5000 PGIS, 75 HP, 3-phase, 4-stage compressor. Options available.

**GSA Price:** \$101,416.39

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**Product name: WATER COOLED  
COMPRESSOR MODULE Manufacturer:  
MAKO Mfg Part #: WC5437H Contractor  
Part #: UWC5437H**

**Product Description:** 84 CFM, 5000 PGIS, 75 HP, 3-phase, 4-stage compressor. Options available.

**GSA Price:** \$101847.53

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# Fill Stations

The ultimate in safe and convenient filling

Our enclosed steel chamber fill-stations are proven to protect against and contain the full impact of a catastrophic cylinder, valve or hose failure (NFPA 1901 compliant). In addition, the loading heights are ergonomically designed to reduce operator fatigue.

Standard Construction – double walled construction, single-action door latch, gas strut assisted carriage assembly, easy access panels for maintenance, and automatic safety interlock mechanism.

## Stationary SCFS

### STANDARD FEATURES

- 2 or 3 positions
- SCBA (SCFS) or SCUBA (SSCFS) compatibility
- 0-6000 psi “push action” regulator
- 3-Bank cascade control system allowing for simultaneous storage and cylinder filling
- Fill panel with easy to read silk screen overlay
- Inlet / outlet gauges
- Fill control valve and gauge
- Color-zoned gauges
- Auxiliary outlet
- Fill whips with fill adapters
- Air storage bypass

### OPTIONAL EQUIPMENT

- 2-4 Bank automatic cascading control
- Pressure selector valve
- Fire to SCUBA adapters

## Stationary Dual-Pack HDCFS

### STANDARD FEATURES

- 2 or 3 positions
- SCBA (SCFS) or SCUBA (SSCFS) compatibility
- 0-6000 psi “push action” regulator
- 3-Bank cascade control system allowing for simultaneous storage and cylinder filling

- Fill panel with easy to read overlay
- Inlet / outlet gauges
- Fill control valve and gauge
- Auxiliary outlet
- Fill whips with fill adapters
- Air storage bypass

### OPTIONAL EQUIPMENT

- 2-4 Bank automatic cascading control
- Pressure selector valve
- Fire to SCUBA adapters

## Mobile MCFS

### STANDARD FEATURES

- 1, 2, or 3 positions
- SCBA (MCFS) or SCUBA (MSCFS) compatibility
- Single or dual pressure
- Fill whips with fill adapters

### OPTIONAL EQUIPMENT

- Fire to SCUBA adapters
- 6” Stand

## Oxygen CFS

### STANDARD FEATURES

- 1 or 2 positions
- Fill whips with fill adapters (approved for oxygen use)
- Fill whip line valve(s)



### STATIONARY (SCFS)

Model	Dimensions (A x B x C)		Weight	
	In	mm	lbs	kg
SCFS2	66 x 29½ x 23½	1677 x 750 x 597	1010	458.13
SSCFS2	68 x 31 x 24	1726 x 787 x 610	1077	488.52
SCFS3	66 x 38½ x 23½	1677 x 978 x 597	1480	671.32
SSCFS3	67½ x 41 x 28	1715 x 1042 x 712	1690	766.57

### DUAL PACK STATIONARY (HDCFS)

Model	Dimensions (A x B x C)		Weight	
	In	mm	lbs	kg
HDCFS2	67¾ x 32¾ x 26½	1721 x 832 x 673	1650	748.43
HDCFS3	67¾ x 42¾ x 26½	1721 x 1086 x 673	2200	997.90

### MOBILE (MCFS)

Model	Dimensions (A x B x C)		Weight	
	In	mm	lbs	kg
MCFS1	38½ x 20½ x 23½	978 x 521 x 597	362	164.20
MCFS2	38½ x 29½ x 23½	978 x 750 x 597	723	327.95
MSCFS2	40¾ x 41 x 24½	1035 x 1041 x 622	928	420.93
MCFS3	38½ x 38½ x 23½	978 x 978 x 597	1148	520.72
MSCFS3	40¾ x 31½ x 24½	1035 x 800 x 622	1405	637.30

### OXYGEN (CFS-OXY)

Model	Dimensions (A x B x C)		Weight	
	In	mm	lbs	kg
CFS1-OXY	38½ x 20½ x 23½	978 x 521 x 597	362	164.20
CFS2-OXY	38½ x 29½ x 23½	978 x 750 x 597	723	327.95

# Fill Stations

**Product name: STATIONARY CONTAINMENT FILL STATION  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: SCFS2-3**

**Contractor Part #: USCFS2-3**

**Product Description:** Stationary Containment Station with 2 Fills. Provides for safe and convenient cylinder filling, proven to contain the full impact of a cylinder, valve, or hose failure. Options available.

**GSA Price: \$6401.29**

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**Product name: STATIONARY CONTAINMENT FILL STATION  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: SSCFS2-3**

**Contractor Part #: USSCFS2-3**

**Product Description:** Stationary SCUBA Containment Station with 2 Fills. Provides for safe and convenient cylinder filling, proven to contain the full impact of a cylinder, valve, or hose failure. Options available.

**GSA Price: \$7360.82**

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**Product name: STATIONARY CONTAINMENT FILL STATION  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: SCFS3-3**

**Contractor Part #: USCFS3-3**

**Product Description:** Stationary Containment Station with 3 Fills. Provides for safe and convenient cylinder filling, proven to contain the full impact of a cylinder, valve, or hose failure. Options available.

**GSA Price: \$7369.59**

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**Product name: STATIONARY CONTAINMENT FILL STATION  
MOD**

**Manufacturer: MAKO**

**Mfg Part #: SSCFS3-3**

**Contractor Part #: USSCFS3-3**

**Product Description:** Stationary SCUBA Containment Station with 3 Fills.

Provides for safe and convenient cylinder filling, proven to contain the full impact of a cylinder, valve, or hose failure. Options available.

**GSA Price: \$8475.46**

---

**Product name: MOBILE CONTAINMENT  
FILL STATION MODULE Manufacturer:  
MAKO Mfg Part #: MCFS-1 Contractor  
Part #: UMCFS-1**

**Product Description:** Mobile Containment Station with 1 Fill. An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price: \$4365.67**

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**Product name: MOBILE CONTAINMENT  
FILL STATION MODULE Manufacturer:  
MAKO Mfg Part #: MCFS-2 Contractor  
Part #: UMCFS-2**

**Product Description:** Mobile Containment Station with 2 Fills. An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price: 5647.68**

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**Product name: MOBILE CONTAINMENT**

**FILL STATION MODULE Manufacturer:**  
**MAKO Mfg Part #: MSCFS - 2 Contractor**  
**Part #: UMSCFS - 2**

**Product Description:** Mobile SCUBA Containment Station with 2 Fills. An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price:** \$6494.18

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**Product name: MOBILE CONTAINMENT**  
**FILL STATION MODULE Manufacturer:**  
**MAKO Mfg Part #: MCFS - 3 Contractor**  
**Part #: UMCFS - 3**

**Product Description:** Mobile Containment Station with 3 Fills. An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price:** \$6141.91

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**Product name: MOBILE CONTAINMENT**  
**FILL STATION MODULE Manufacturer:**  
**MAKO Mfg Part #: MSCFS - 3 Contractor**  
**Part #: UMSCFS - 3**

**Product Description:** Mobile SCUBA Containment Station with 3 Fills. An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price:** \$7057.63

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**Product name: OXYGEN FILL STATION MODULE**  
**Manufacturer: MAKO**  
**Mfg Part #: CFS1-OXY**

**Contractor Part #:** UCFS1-OXY

**Product Description:** Oxygen Containment Fill Station with 1 fill position.

MAKO's containment fill stations offer the ultimate in safety and convenience.

An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price:** \$4720.57

---

**Product name: OXYGEN FILL STATION MODULE**

**Manufacturer:** MAKO

**Mfg Part #:** CFS2-OXY

**Contractor Part #:** UCFS2-OXY

**Product Description:** Oxygen Containment Fill Station with 2 fill positions.

MAKO's containment fill stations offer the ultimate in safety and convenience.

An enclosed steel chamber offers maximum protection in the event of a catastrophic cylinder failure. Options available.

**GSA Price:** \$6661.55

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# Air Management Systems



## Air Storage

Maximize the output of your breathing air system to cope with unpredictable or peak filling requirements.

- Horizontal or vertical storage tanks
- Configurations of 2, 3, 4, 5 or 6 cylinders
- UN or ASME storage cylinders

## Cascade Controls

Designed to optimize air storage and filling capacity, our cascade controls allow the operator to refill a depleted storage bank while simultaneously filling SCBA's from a full storage bank.

- Either integrated into a Containment Fill Station or remotely mounted
- Containment Fill Station Auto-Cascade Control option
  - » Reduces the potential for operator confusion
  - » Simplifies and eases the filling operation
  - » Automatically controls air storage consumption and replenishment



## Electronic CO & Purification Monitoring

### CO & MOISTURE MONITOR (CMM)

- Easy to read, simple to use
- Straight forward CO sensor/cell replacement
- Automatic shutdown
- Automatic calibration - the CO sensor automatically adjusts to ensure accurate measurement of CO by checking itself against two preset levels

### OPTIONAL MONITORS

- CO only
- Moisture only
- Wall-mounted (remote)

### TECHNICAL DATA

CO Monitor Performance	
Detection Range	0-100 ppm
Factory Alarm Setting	10 ppm
Display Type	LCD
Alarms	Visual: LEDs and digital LCD Audible: Case-mounted horn

## Purification Filters

Ensure that you receive quality air purification by specifying MAKO. We design, engineer and manufacture our air purification systems in-house, guaranteeing grade E air quality that meets or exceeds current NFPA, Canadian, and worldwide standards.

### STANDARD FEATURES

- Visual CO and moisture indicators do not require depressurization
- System inoperable without cartridge in chamber when cartridge CMM monitor option is used
- Non-corrosive replaceable cartridge
- No adhesive odors or tastes because adhesive is not used in the manufacturing process
- Stainless steel springs incorporated in cartridge assures properly packed filter media
- Anodized aluminum alloy chambers rated for 6000 psig with a 4 to 1 safety factor

### PURIFICATION CARTRIDGE CAPABILITIES

Model	Capability at 70°F Inlet Cubic Ft.
MK2C	34,200
MK5C	82,000
MK10C	171,425
MK420C	428,570



# Air Management Systems

**Product name:** CELLULAR RACK SYSTEM

**Manufacturer:** MAKO

**Mfg Part #:** CR4501

**Contractor Part #:** UCR4501

**Product Description:** Air Storage Cylinders (1 each; DOT 4500 PSI, 444 CF storage capacity) and racks. Options available.

**GSA Price:** \$1096.24

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**Product name:** CELLULAR RACK SYSTEM

**Manufacturer:** MAKO

**Mfg Part #:** CR5001

**Contractor Part #:** UCR5001

**Product Description:** Air Storage Cylinders (1 each; ASME 5000/6000 PSI, 424 CF @ 5000 PSI or 481 CF @ 6000 PSI storage capacity) and racks. Options available.

**GSA Price:** \$3045.98

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**Product name:** CELLULAR RACK SYSTEM

**Manufacturer:** MAKO

**Mfg Part #:** CR6001

**Contractor Part #:** UCR6001

**Product Description:** Air Storage Cylinders (1 each; DOT 6000 PSI, 509 CF storage capacity) and racks. Options available.

**GSA Price:** \$2035.62

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**Product name: AIR STORAGE SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: M2780**

**Contractor Part #: UM2780**

**Product Description:** Air Storage Cylinders (1 each; ASME 5000/6000 PSI, 424 CF @ 5000 PSI and 481 CF @ 6000 PSI storage capacity) and racks. Options available.

**GSA Price: \$2642.89**

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**Product name: AIR STORAGE SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: M4450**

**Contractor Part #: UM4450**

**Product Description:** Air Storage Cylinders (1 each; DOT 4500 PSI, 444 CF storage capacity) and racks. Options available.

**GSA Price: \$708.92**

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**Product name: AIR STORAGE SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: M9004**

**Contractor Part #: UM9004**

**Product Description:** Air Storage Cylinders (1 each; DOT 6000 PSI, 509 CF storage capacity) and racks. Options available.

**GSA Price: \$1631.65**

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**Product name: AIR STORAGE SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: TM5002**

**Contractor Part #: UTM5002**

**Product Description:** Air Storage Cylinders (2 each; ASME 5000/6000 PSI, 848 CF @ 5000 PSI and 962 CF @ 6000 PSI storage capacity) and racks. Options available.

**GSA Price: \$6051.65**

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**Product name: AIR STORAGE SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: TM5003**

**Contractor Part #: UTM5003**

**Product Description:** Air Storage Cylinders (3 each; ASME 5000/6000 PSI, 1272 CF @ 5000 PSI and 1443 CF @ 6000 PSI storage capacity) and racks. Options available.

**GSA Price: \$9077.47**

---

**Product name: AIR STORAGE SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: TM5004**

**Contractor Part #: UTM5004**

**Product Description:** Air Storage Cylinders (4 each; ASME 5000/6000 PSI, 1696 CF @ 5000 PSI and 1924 CF @ 6000 PSI storage capacity) and racks. Options available.

**GSA Price: \$12103.30**

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**Product name: AIR STORAGE SYSTEM MODULE**  
**Manufacturer: MAKO**  
**Mfg Part #: TM6002**  
**Contractor Part #: UTM6002**

**Product Description:** Air Storage Cylinders (2 each; DOT 6000 PSI, 1018 CF storage capacity) and racks. Options available.

**GSA Price: \$3652.37**

---

**Product name: AIR STORAGE SYSTEM MODULE**  
**Manufacturer: MAKO**  
**Mfg Part #: TM6003**  
**Contractor Part #: UTM6003**

**Product Description:** Air Storage Cylinders (3 each; DOT 6000 PSI, 1527 CF storage capacity) and racks. Options available.

**GSA Price: \$5478.56**

---

**Product name: AIR STORAGE  
SYSTEM MODULE Manufacturer:  
MAKO Mfg Part #: TM6004 Contractor  
Part #: UTM6004**

**Product Description:** Air Storage Cylinders (4 each; DOT 6000 PSI, 2036 CF storage capacity) and racks. Options available.

**GSA Price:** \$7304.74

---

**Product name: AIR STORAGE  
SYSTEM MODULE Manufacturer:  
MAKO Mfg Part #: TMD5002 Contractor  
Part #: UTMD5002**

**Product Description:** Air Storage Cylinders (2 each; UN 5000 PSI, 888 CF storage capacity) and racks. Options available.

**GSA Price:** \$2642.89

---

**Product name: AIR STORAGE  
SYSTEM MODULE Manufacturer:  
MAKO Mfg Part #: TMD5003 Contractor  
Part #: UTMD5003**

**Product Description:** Air Storage Cylinders (3 each; UN 5000 PSI, 1332 CF storage capacity) and racks. Options available.

**GSA Price:** \$3963.45

---

**Product name: AIR STORAGE  
SYSTEM MODULE Manufacturer:  
MAKO Mfg Part #: TMD5004 Contractor  
Part #: UTMD5004**

**Product Description:** Air Storage Cylinders (4 each; UN 5000 PSI, 1332 CF storage capacity) and racks. Options available.

**GSA Price:** \$5284.90

---

**Product name: PURIFICATION SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: MK10C (NOT CE MARKED)**

**Contractor Part #: UMK10C**

**Product Description:** 171,425 CF purification capacity (use 3 replacement cartridges, LPD1503P [2 ea] and LPD1803P [1 ea]) (Not CE Marked)

**GSA Price: \$4740.66**

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**Product name: PURIFICATION SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: MK2C (NOT CE MARKED)**

**Contractor Part #: UMK2C**

**Product Description:** 34,200 CF purification capacity (use 1 replacement cartridge, LPD1803P) (Not CE Marked)

**GSA Price: \$2350.21**

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**Product name: PURIFICATION SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: MK420C (NOT CE MARKED)**

**Contractor Part #: UMK420C**

**Product Description:** 171,425 CF purification capacity (use 10 replacement cartridges, LPD1503P [8 ea] LPD1803P [2 ea]) (Not CE Marked)

**GSA Price: \$13475.57**

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**Product name: PURIFICATION SYSTEM MODULE**

**Manufacturer: MAKO**

**Mfg Part #: MK5C (NOT CE MARKED)**

**Contractor Part #: UMK5C**

**Product Description:** 82,000 CF purification capacity (use 2 replacement cartridges, LPD1503P [1 ea] and LPD1803P [1 ea]) (Not CE Marked)

**GSA Price: \$3535.82**

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# Accessories

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer: MAKO**

**Mfg Part #: 003OWS1000**

**Contractor Part #: U003OWS1000**

**Accessory Description:** Oil/Water Separator - Separator with installation kit

**GSA Price:** \$223.45

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer: MAKO**

**Mfg Part #: 003OWS1001**

**Contractor Part #: U003OWS1001**

**Accessory Description:** Oil/Water Separator - Separator Oil/Water module

**GSA Price:** \$184.90

---

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer: MAKO**

**Mfg Part #: 003OWS1002**

**Contractor Part #: U003OWS1002**

**Accessory Description:** Installation/Connection Kit for Oil/Water Separator

**GSA Price:** \$39.43

---

**Accessory name: COMPRESSOR  
ACCESSORIES Manufacturer: MAKO  
Mfg Part #: 005H316-36 Contractor  
Part #: U005H316-36**

**Accessory Description:** Hose: 3 ft. (1 meter) Hose

**GSA Price:** \$29.72

---

**Accessory name: COMPRESSOR  
ACCESSORIES Manufacturer: MAKO  
Mfg Part #: 005H316-60 Contractor  
Part #: U005H316-60**

**Accessory Description:** Hose: 5 ft. (1.5 meter) Hose

**GSA Price:** \$37.18

---

**Accessory name: COMPRESSOR ACCESSORIES  
Manufacturer: MAKO  
Mfg Part #: 009MBACKIT-S2  
Contractor Part #: U009MBACKIT-S2**

**Accessory Description:** Modular BAC (MBAC) Integration Kit

**GSA Price:** \$1971.65

---

**Accessory name: COMPRESSOR ACCESSORIES  
Manufacturer: MAKO  
Mfg Part #: 533EFH15141718  
Contractor Part #: U533EFH15141718**

**Accessory Description:** Hose Reels - Electric Rewind w/ Hose - 6000 PSI - 100 ft  
(30.5m)

**GSA Price:** \$2655.15

---

**Accessory name: COMPRESSOR ACCESSORIES  
Manufacturer: MAKO  
Mfg Part #: 533EFH15161718  
Contractor Part #: U533EFH15161718**

**Accessory Description:** Hose Reels - Electric Rewind w/ Hose - 6000 PSI - 200 ft  
(61m)

**GSA Price:** \$3332.53

---

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 533FHN152324J

**Contractor Part #:** U533FHN152324J

**Accessory Description:** Hose Reel. 75 ft. spring rewind hose reel with quick disconnect (QD) fill assembly, 6000 PSI

**GSA Price:** \$2151.29

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 533FHN7161920J

**Contractor Part #:** U533FHN7161920J

**Accessory Description:** Hose Reel. 50 ft. spring rewind hose reel with quick disconnect (QD) fill assembly, 6000 PSI

**GSA Price:** \$1929.59

---

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 533FHN7162324G

**Contractor Part #:** U533FHN7162324G

**Accessory Description:** Hose Reel. 100 ft. spring rewind hose reel with quick disconnect (QD) fill assembly, 6000 PSI

**GSA Price:** \$2291.49

---

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 534DR1000

**Contractor Part #:** U534DR1000

**Accessory Description:** Auto Drain Muffler/Reservoir (Stand Alone Unit) - For air cooled units.

**GSA Price:** \$912.22

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 534DR1000T

**Contractor Part #:** U534DR1000T

**Accessory Description:** Auto Drain Muffler/Reservoir (Stand Alone Unit) - For  
air cooled mobile units.

**GSA Price:** \$1062.06

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 534DR2000

**Contractor Part #:** U534DR2000

**Accessory Description:** Auto Drain Muffler/Reservoir (Stand Alone Unit) - For  
water cooled units.

**GSA Price:** \$1186.49

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 534M1725D

**Contractor Part #:** U534M1725D

**Accessory Description:** Fill Whip Hoses and Adapters: Scuba Yoke (US) Adapter  
assembly (Does not include hose)

**GSA Price:** \$279.54

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** 534M1725F

**Contractor Part #:** U534M1725F

**Accessory Description:** Fill Whip Hoses and Adapters: CGA 346 (US) Adapter  
assembly (Does not include hose)

**GSA Price:** \$139.33

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO  
**Mfg Part #:** 534M8405  
**Contractor Part #:** U534M8405

**Accessory Description:** Fill Whip Hoses and Adapters: CGA 347 (US) Adapter assembly (Does not include hose)

**GSA Price:** \$249.74

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO  
**Mfg Part #:** 534M8406  
**Contractor Part #:** U534M8406

**Accessory Description:** Fill Whip Hoses and Adapters: 300 BAR DIN Adapter assembly (Does not include hose)

**GSA Price:** \$300.57

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO  
**Mfg Part #:** MKBCM110  
**Contractor Part #:** UMKBCM110

**Accessory Description:** Carbon Monoxide and Moisture Monitor (CMM) - (Retro-fit on Site) Includes: automatic single step calibration, CO warning and shutdown light (designated wall mount panel), audible alarm, new final purification chamber, high moisture warning light, high moisture shutdown and light (Cartridge Detection System). Wall Mount CMM - Supply voltage to CMM: 110 VAC/ compressor system voltage: 110 VAC

**GSA Price:** \$5700.26

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**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO  
**Mfg Part #:** MKBCM12-12  
**Contractor Part #:** UMKBCM12-12

**Accessory Description:** Carbon Monoxide and Moisture Monitor (CMM) - (Retro-fit on Site) Includes: automatic single step calibration, CO warning and shutdown light (designated wall mount panel), audible alarm, new final purification chamber, high moisture warning light, high moisture shutdown and light (Cartridge Detection System). Wall Mount CMM - Supply voltage to CMM: 12 VDC/ compressor system voltage: 12 VDC

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**GSA Price:** \$5700.26

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** MKBCM12-24

**Contractor Part #:** UMKBCM12-24

**Accessory Description:** Carbon Monoxide and Moisture Monitor (CMM) - (Retro-fit on Site) Includes: automatic single step calibration, CO warning and shutdown light (designated wall mount panel), audible alarm, new final purification chamber, high moisture warning light, high moisture shutdown and light (Cartridge Detection System). Wall Mount CMM - Supply voltage to CMM: 110 VAC/ compressor system voltage: 12 or 24 VDC

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**GSA Price:** \$5700.26

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** MKBCM12

**Contractor Part #:** UMKBCM12

**Accessory Description:** Carbon Monoxide and Moisture Monitor (CMM) - (Retro-fit on Site) Includes: automatic single step calibration, CO warning and shutdown light (designated wall mount panel), audible alarm, new final purification chamber, high moisture warning light, high moisture shutdown and light (Cartridge Detection System). Wall Mount CMM - Supply voltage to CMM: 110 VAC/ compressor system voltage: 12 VDC

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**GSA Price:** \$5700.26

**Accessory name: COMPRESSOR ACCESSORIES**

**Manufacturer:** MAKO

**Mfg Part #:** MKBCM12VT

**Contractor Part #:** UMKBCM12VT

**Accessory Description:** Carbon Monoxide and Moisture Monitor (CMM) - (Retro-fit on Site) Includes: automatic single step calibration, CO warning and shutdown light (designated wall mount panel), audible alarm, new final purification chamber, high moisture warning light, high moisture shutdown and light (Cartridge Detection System). Wall Mount CMM - Supply voltage to CMM - TRUCK: 12 VDC/ compressor system voltage: 12 VDC

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**GSA Price:** \$5700.26

**Accessory name:** COMPRESSOR ACCESSORIES

**Manufacturer:** MAKO

**Mfg Part #:** MKBCO12-12

**Contractor Part #:** UMKBCO12-12

**Accessory Description:** Carbon Monoxide Monitor (Retro-fit on Site) Includes:  
automatic single step calibration, CO warning and shutdown light, audible  
alarm, designated wall mount panel. Wall Mount CO ONLY - supply voltage to  
CO: 12 VDC/compressor system voltage: 12 VDC.

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**GSA Price:** \$4236.86

**Accessory name:** COMPRESSOR ACCESSORIES

**Manufacturer:** MAKO

**Mfg Part #:** MKBCO12-24

**Contractor Part #:** UMKBCO12-24

**Accessory Description:** Carbon Monoxide Monitor (Retro-fit on Site) Includes:  
automatic single step calibration, CO warning and shutdown light, audible  
alarm, designated wall mount panel. Wall Mount CO ONLY - supply voltage  
to CO: 110 VAC or 24 VDC/compressor system voltage: 12 or 24 VDC.

**GSA Price:** \$4236.86

# Compressor Options

**Option Type:** A - Can be ADDED to the base product.

**Part Number:** OPT-MAINT

**Description:** Breathing Air Module Option - Maintenance timer & light.

**Quantity:** 1 **Unit:** EA

**Price:** 143.71

**Part Number:** OPT-SHUTDOWN

**Description:** Breathing Air Module Option - Shutdown audible alarm.

**Quantity:** 1 **Unit:** EA

**Price:** 77.99

**Part Number:** OPT-DUAL PRESS

**Description:** Breathing Air Module Option - Dual pressure switch.

**Quantity:** 1 **Unit:** EA

**Price:** 596.75

**Part Number:** OPT-LIQ-GGE

**Description:** Breathing Air Module Option - Liquid filled gauges. **Quantity:** 3 **Unit:** ST

**Price:** 138.45

**Part Number:** OPT-COMON

**Description:** Breathing Air Module Option - CO-monitor w/ auto calibration

**Quantity:** 1 **Unit:** EA

**Price:** 3098.56

**Part Number:** OPT-CCM

**Description:** Breathing Air Module Option - CMM (CO monitor & moisture monitor)

**Quantity:** 1 **Unit:** EA

**Price:** 3562.11



MAKO Blue lubricant is approved for breathing air applications

## Aftermarket Products & Programs

### MAKO Blue Diester Based Synthetic Lubricant

Protecting your investment... from the inside

MAKO Blue synthetic lubricant combines highly stable oils with unique additive technologies to create a product that provides excellent thermal and oxidative stability while delivering superior anti-wear and anti-corrosion protection.

#### LUBRICANT CHART

Features	Mineral Oil	PAO	MAKO
Wide Temperature Performance	na	✓	✓
High Lubricity	na	✓	✓
Low Evaporation	na	✓	✓
Increased Efficiency	na	✓	✓
Excellent Solvency	na	na	✓
Clean Lubrication (no deposits)	na	na	✓
Biodegradability	na	na	✓
Extreme High-Temperature Performance	na	na	✓

✓ = applicable; na = **not** applicable

#### SELECTED PHYSICAL PROPERTIES

Property	Test Method	Results
Viscosity, cSt. @ 40°C	ASTM D445	91.4
Viscosity, cSt. @ 100°C	ASTM D445	9.3
ISO Viscosity Grade	100	
Pour Point °C/°F	ASTM D97	-29 / -30
Flash Point °C/°F	ASTM D92	-260 / 500
Demulsibility @ 130°F	ATSM D1401	Excellent

#### CONVENIENT PACKAGE SIZES

Package Size	Part Number
Quart	003MBQ-S
Gallon	003MBG-S
55 Gallon Drum	003MBD-S



## Compressor Blocks

If a replacement compressor block is required, rely on MAKO to provide you options:

Replacement Block	Warranty
Factory <b>NEW</b>	12-month
Factory <b>REMANUFACTURED</b>	12-month
Factory <b>REPAIR &amp; RETURN</b>	90-day

## Genuine OEM Replacement Parts

Don't take a chance... maintain the MAKO performance advantage and reliability with genuine MAKO replacement parts available through our authorized sales and servicing distributor partners.

All proprietary and consumable parts are designed and/or specified specifically for MAKO products, ensuring operational efficiencies and longevity.

## Product Warranty

### Standard 12-Month Warranty

MAKO warrants its compressors and fill-stations to operate in accordance with its specifications free from defects in material and workmanship under normal operating conditions, for twelve (12) months from initial start-up or eighteen (18) months from shipment by MAKO.

### OPTIONAL 5-Year Extended Warranty

[\[available in the USA and Canada only\]](#)

The MAKO5 is offered exclusively to the municipal fire market, and it covers MAKO's full line of stationary breathing air compressors, containment fill stations, and mobile trailer systems.

(continued on the next page)

# MAKO5

5-YEAR EXTENDED WARRANTY

## Program Summary & Requirements

- Warranty coverage:
  - » Stationary Compressors:
    - 2-year comprehensive, parts and labor
    - Years 3-5 block and purification system, parts only
  - » Containment Fill-Stations:
    - 2-Years comprehensive, parts and labor
  - » Mobile Trailer Systems:
    - 1-year comprehensive, parts and labor
    - Years 2-5 block and purification system, parts only
- Semi-annual inspections and PM's must be performed by an authorized and certified distributor service technician
- Customer is required to use only genuine Mako parts during the entire warranty period
- Compressor must run minimum 1-hour per week to ensure proper lubrication to all critical compressor block components

### Maximize the benefits of your investment and have confidence knowing your Mako breathing air system is...

- The best built, most reliable product on the market
- Backed by our optional comprehensive 5-year, 1000-hour warranty
- Serviced by our distributors' highly trained, highly-skilled technicians
- Maintained using only genuine, Mako OEM parts



# Engineering Sizing Data

## COMPRESSOR SIZING CHART

Instructions: Circle the closest answer(s) to each question. The column in which the most answers are circled should be the smallest system to be considered. If the majority of your SCBA's are 4500 psi choose a compressor from Column 4 or higher.

	Column	1	2	3	4	5	6	7
How many SCBA cylinders are in service, or are expected to be, within 12 months?		6 – 12	13 – 20	21 – 30	31 – 40	41 – 60	61 – 100	101 & UP
What working pressure are these SCBA cylinders rated for?	psi	2216	2216 3000	2216 3000	2216 3000 4500	2216 3000 4500	2216 3000 4500	2216 3000 4500
How many working calls has the department logged in the last 12 months?		20 – 60	61 – 80	81 – 100	101 – 120	121 – 170	171 – 225	226 & UP
How many SCBA's are being refilled each month?		4 – 20	20 – 40	40 – 60	60 – 80	80 – 100	100 – 400	400 & UP
What is the maximum number of refills made in one operation in recent months?		4 – 9	10 – 15	16 – 25	26 – 35	36 – 45	46 – 55	56 & UP
If you have been purchasing breathing air in cascade cylinders, how many of these were purchased in the last 12 months?		6 – 12	13 – 30	31 – 40	41 – 50	51 – 60	61 – 100	101 & UP
How many active fire fighters are on the staff of this department (count all shifts)?		4 – 8	9 – 12	13 – 20	21 – 30	31 – 45	46 – 65	66 & UP
How many stations does this department operate?		1	1	1 – 2	1 – 2	1 – 3	2 – 4	5 & UP
What is the population in this department's district?		1000 – 4000	4000 – 8000	8000 – 16,000	16,000 – 25,000	25,000 – 50,000	50,000 – 200,000	200,000 & UP
If a department has an existing compressor in service, what is it's output range?	cfm	3.0 – 5.0	5.0 – 7.0	8.0 – 10.0	10.0 – 12.0	13.0 – 15.0	16.0 – 18.0	19.0 – 20.0
<b>Compressor Output Recommended</b>								
cfm		5.8	8.6	13.1	14.0	20.7 – 27.0	27.0 – 33.2	33.2 & UP
psi		5000	5000	5000	6000	6000	6000	6000
<b>Cascade System Recommended</b>								
Cyl		3 – 4	4	4 – 6	4 – 6	4 – 6	6 – 8	6 – 8
psi		5000	5000	5000	6000	6000	6000	6000



## MAKO Compressors

MAKO Compressors is part of Gardner Denver, Inc. specializing in Breathing Air Systems since 1952.



## CompAir Reavell

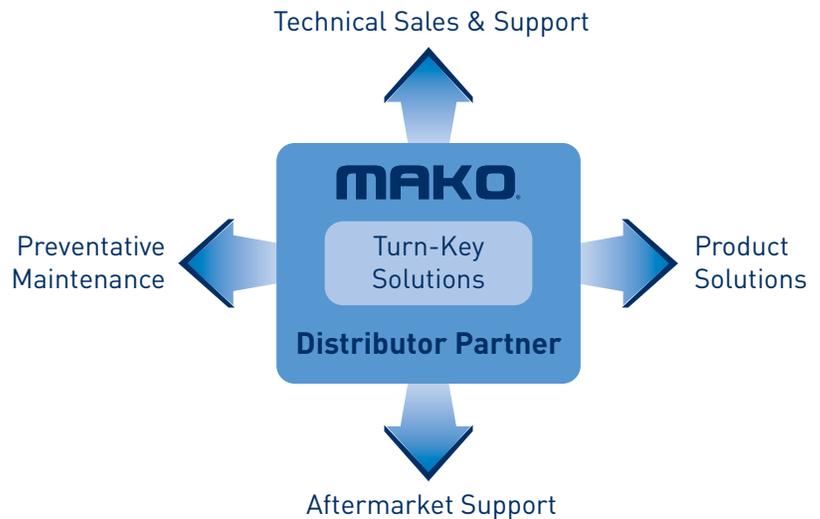
CompAir Reavell is part of Gardner Denver, Inc. From their state-of-the-art facility in Ipswich, England, CompAir Reavell designs and manufactures high quality reciprocating piston compressors.

### Compressor Notes

1. All technical details are subject to change.
2. Performance figures are typical and are not the full range available.
3. Figures based on inlet conditions of 20°C/68°F, 1,013 Bar/14.7 PSL.
4. Charge rates measured in accordance with Compair Ipswich standard No. 27 Type 'A'.
5. Electric motors are available in 50 & 60 Hz. Single & 3 Phase versions and with multiple voltage options.
6. Tested and certified to equivalent of UL 1450 Standards. Conforms to all applicable TUV directives.
7. Sound pressure level at 1m/3 ft.

### CFS [Containment Fill Station] Notes

1. All technical details are subject to change.
2. Tested and certified to equivalent of UL 1450 Standards. Conforms to all applicable CE directives.
3. Rupture test certificate available on request.



BREATHING AIR SOLUTIONS



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 770-632-5071 fax  
[www.makocompressors.com](http://www.makocompressors.com)

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