



Breathing Air Solutions

We've Got Your Back





LIFE COMES WITH ENOUGH RISKS

THE AIR YOU BREATHE
SHOULD NOT BE ONE OF THEM.

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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!



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

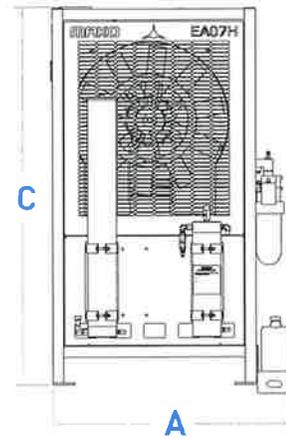
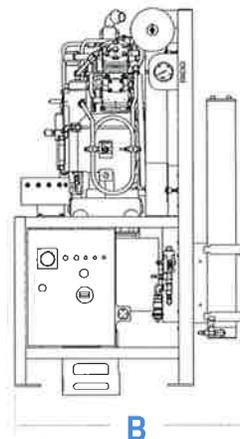
- MK5C purification
- Wall-mount CO & Moisture (CMM) Mounting System

TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m ³ /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



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

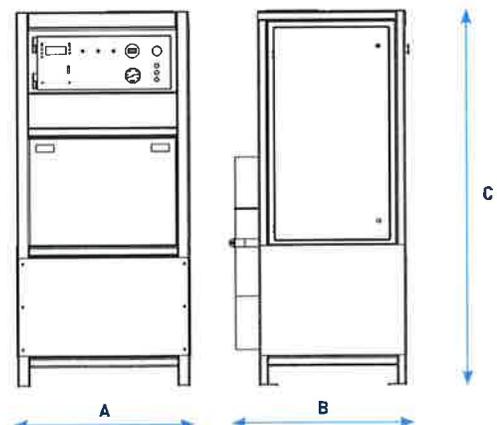
- MK5C purification
- Integrated or wall-mounted CO & Moisture [CMM] Monitor
- Shutdown audible alarm
- Dual pressure switch

TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate [0 - max pressure]			Compressor rpm	Drive		Weight		Sound Level dba
	bar	psi		m ³ /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.

Commercial/Catalog Price: \$15250

GSA Price: \$13644

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.

Commercial/Catalog Price: \$15133

GSA Price: \$13145.35

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.

Commercial/Catalog Price: \$16345

GSA Price: \$14648.7

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.

Commercial/Catalog Price: \$15977

GSA Price: \$14315.39



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.

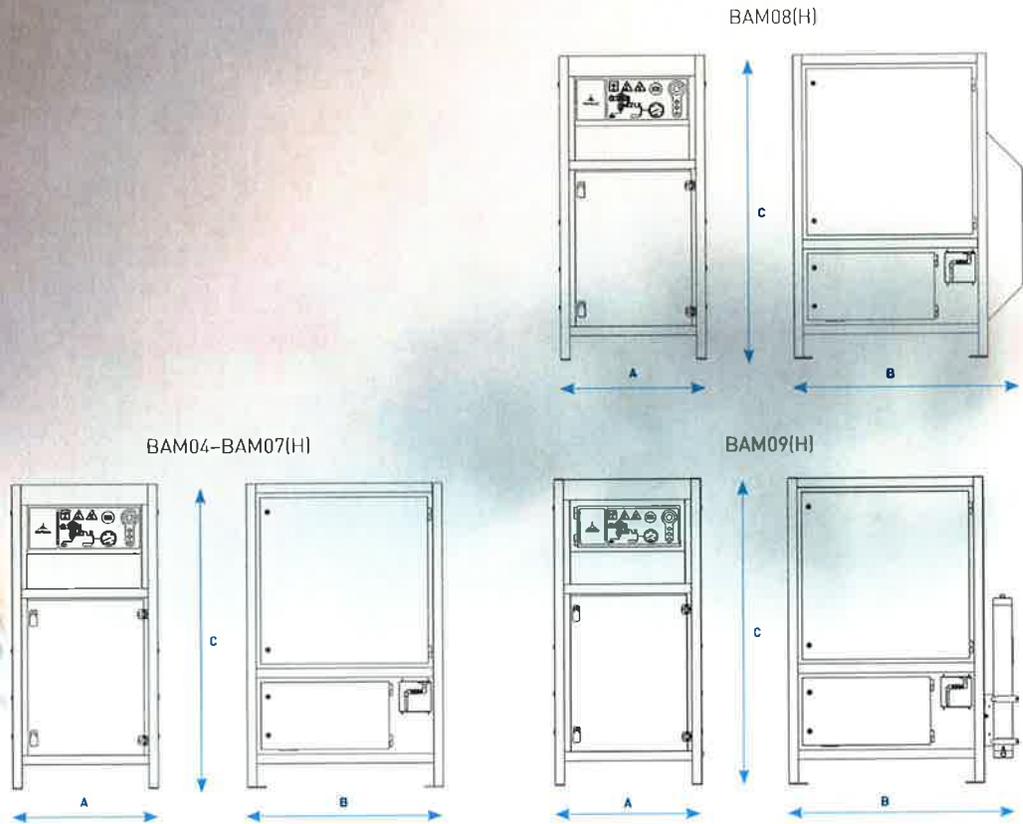
STANDARD FEATURES

- 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 ³ /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)	31½ x 42 x 65½	794 x 1067 x 1673
BAM08(H) BAM09(H)	31½ x 50 x 65½	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 ³ /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





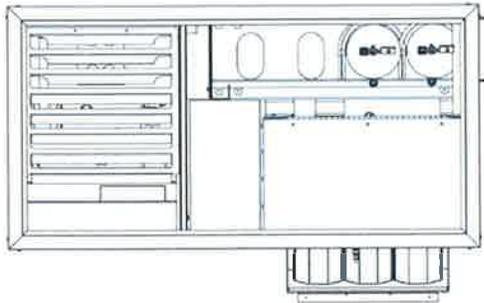
DIMENSIONS (A x B x C)

BAM with SCFS2 or SCFS3

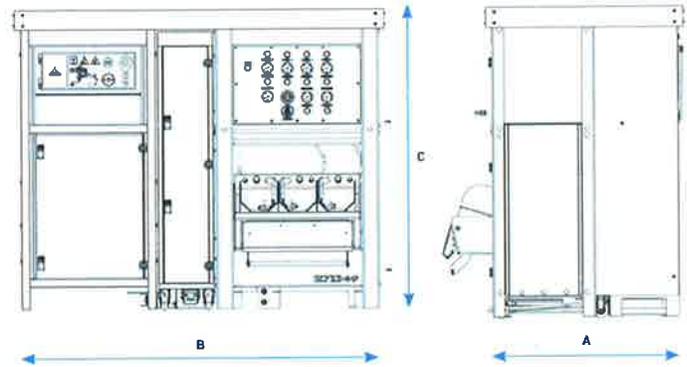
	In	mm
BAM04-07H	45½ x 86 x 70	1156 x 2185 x 1778
BAM08-09H	52½ x 86 x 70	1334 x 2185 x 1778

BAM with SSCFS2 or SSCFS3

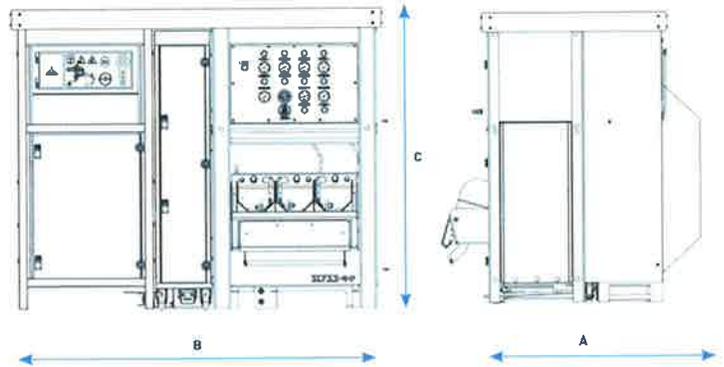
	In	mm
BAM04-07H	45½ x 90 x 70	1156 x 2286 x 1778
BAM08-09H	52½ x 90 x 70	1334 x 2286 x 1778



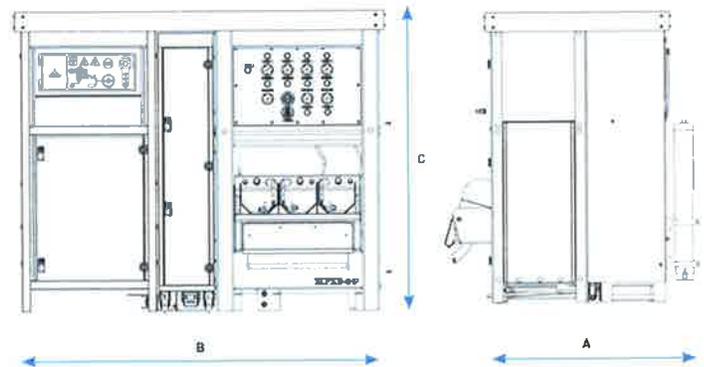
BAM04-BAM07(H)



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.

Commercial/Catalog Price: \$15644

GSA Price: \$14034.94

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.

Commercial/Catalog Price: \$17575

GSA Price: \$15747.2

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.

Commercial/Catalog Price: \$17348

GSA Price: \$15543.81

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.

Commercial/Catalog Price: \$20463 **GSA Price:** \$18344.85

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.

Commercial/Catalog Price: \$19910 **GSA Price:** \$18018.55

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.

Commercial/Catalog Price: \$23800 **GSA Price:** \$21539

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.

Commercial/Catalog Price: \$23697 **GSA Price:** \$20826.63

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.

Commercial/Catalog Price: \$24831

GSA Price: \$22249

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.

Commercial/Catalog Price: \$24609

GSA Price: \$22049.5

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.

Commercial/Catalog Price: \$23150

GSA Price: \$20950.75

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.

Commercial/Catalog Price: \$23150

GSA Price: \$18635.75

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.

Commercial/Catalog Price: \$25614

GSA Price: \$22950.14

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.

Commercial/Catalog Price: \$26901

GSA Price: \$24210.9

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.

Commercial/Catalog Price: \$30786

GSA Price: \$27584.27

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.

Commercial/Catalog Price: \$32985

GSA Price: \$29554.56

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.

Commercial/Catalog Price: \$33100

GSA Price: \$29955.5

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.

Commercial/Catalog Price: \$34850

GSA Price: \$31539.25



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

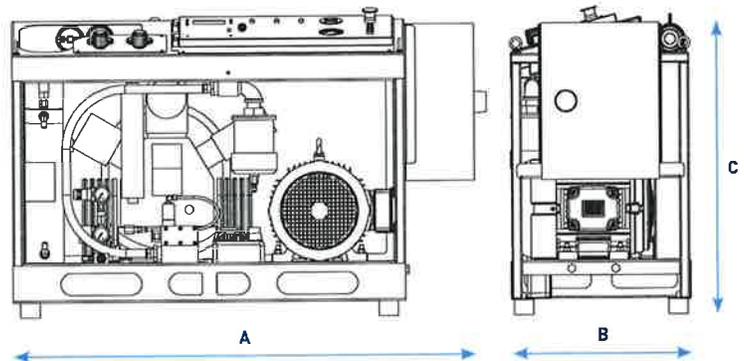


TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Max Integrated fill hoses
	bar	psi		m ³ /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.

Commercial/Catalog Price: \$15243

GSA Price: \$13657.12

**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.

Commercial/Catalog Price: \$14402

GSA Price: \$12972.13

**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.

Commercial/Catalog Price: \$17912

GSA Price: \$16040.17

**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.

Commercial/Catalog Price: \$13203

GSA Price: \$11882.7

**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.

Commercial/Catalog Price: \$16968

GSA Price: \$15356.04

**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.

Commercial/Catalog Price: \$16355

GSA Price: \$14627

**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.

Commercial/Catalog Price: \$19038

GSA Price: \$17125.75

**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.

Commercial/Catalog Price: \$14578

GSA Price: \$12332.11

**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.

Commercial/Catalog Price: \$19862

GSA Price: \$17675.1

**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.

Commercial/Catalog Price: \$18489

GSA Price: \$16700.55

**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.

Commercial/Catalog Price: \$24356

GSA Price: \$21822.97

**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.

Commercial/Catalog Price: \$17625

GSA Price: \$15000.89

**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.

Commercial/Catalog Price: \$22340

GSA Price: \$20016.64

**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.

Commercial/Catalog Price: \$21684

GSA Price: \$19428.87

**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.

Commercial/Catalog Price: \$31056

GSA Price: \$27826.18

**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.

Commercial/Catalog Price: \$24620

GSA Price: \$20059.52

**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.

Commercial/Catalog Price: \$23824

GSA Price: \$20250.4

**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.

Commercial/Catalog Price: \$23072

GSA Price: \$19999.5

**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.

Commercial/Catalog Price: \$32814

GSA Price: \$29401.34

**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

Commercial/Catalog Price: \$26576

GSA Price: \$23918.4

**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.

Commercial/Catalog Price: \$24304

GSA Price: \$21776.38

**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.

Commercial/Catalog Price: \$35114

GSA Price: \$31462.14

**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.

Commercial/Catalog Price: \$28702

GSA Price: \$25831.8

**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.

Commercial/Catalog Price: \$27271.8

GSA Price: \$24544.62

**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.

Commercial/Catalog Price: \$37572

GSA Price: \$33814.8

**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.

Commercial/Catalog Price: \$30711

GSA Price: \$27332.79

**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.

Commercial/Catalog Price: \$28570

GSA Price: \$25350

**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.

Commercial/Catalog Price: \$37512

GSA Price: \$31885.2

**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.

Commercial/Catalog Price: \$30610

GSA Price: \$27426.56

**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.

Commercial/Catalog Price: \$42450

GSA Price: \$37993

**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.

Commercial/Catalog Price: \$31445

GSA Price: \$28455

**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.

Commercial/Catalog Price: \$45117

GSA Price: \$38999.01

**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.

Commercial/Catalog Price: \$32341

GSA Price: \$29106.9

**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.

Commercial/Catalog Price: \$47482

GSA Price: \$41345.15

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.

Commercial/Catalog Price: \$93433

GSA Price: \$74746.4

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.

Commercial/Catalog Price: \$93433

GSA Price: \$74746.4



Water-Cooled Packages

Quiet, durable, reliable, continuous duty

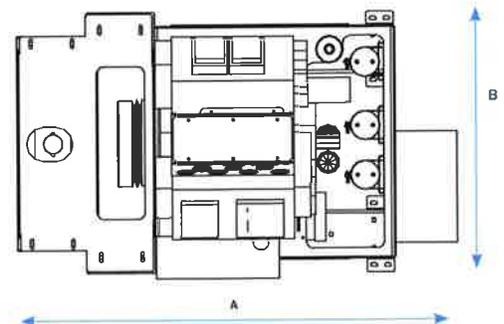
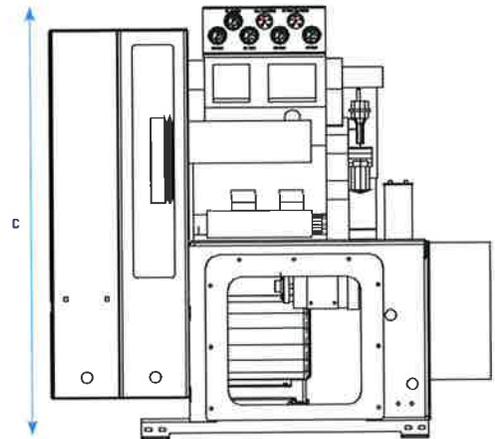
For the user whose demands include "around the clock" operation PLUS high capacity, look to our water-cooled packages to fulfill those needs.

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



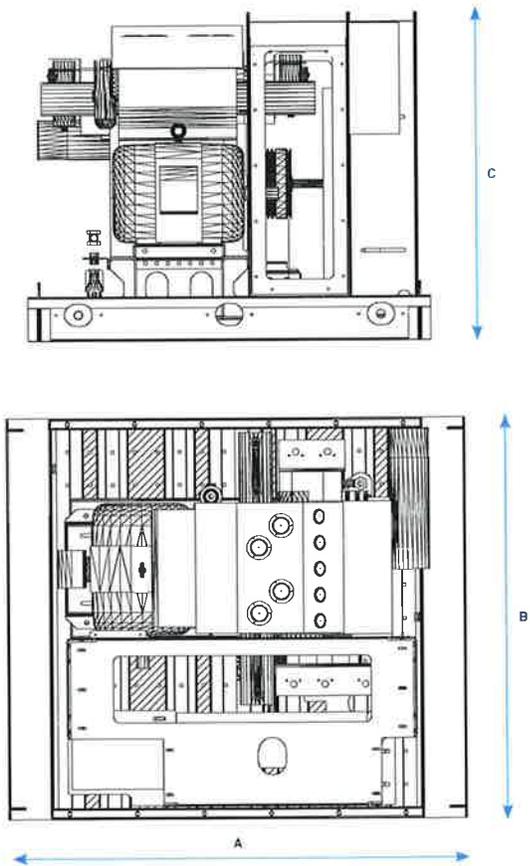
5417BA

TECHNICAL DATA

Model	Max Pressure		Stages	Charging Rate (0 - max pressure)			Compressor rpm	Drive		Weight	
	bar	psi		m ³ /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.

Commercial/Catalog Price: \$83103

GSA Price: \$75208.21

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.

Commercial/Catalog Price: \$115734

GSA Price: \$104734.27

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.

Commercial/Catalog Price: \$116226

GSA Price: \$105184.53

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.

Commercial/Catalog Price: \$7305

GSA Price: \$6545.28

**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.

Commercial/Catalog Price: \$8400

GSA Price: \$7526.4

**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.

Commercial/Catalog Price: \$8410

GSA Price: \$7505.15

**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.

Commercial/Catalog Price: \$9672

GSA Price: \$8666.3

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.

Commercial/Catalog Price: \$4982

GSA Price: \$4463.88

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.

Commercial/Catalog Price: \$6445

GSA Price: \$5774.72

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.

Commercial/Catalog Price: \$7411

GSA Price: \$6640.56

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.

Commercial/Catalog Price: \$7009

GSA Price: \$6280.07

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.

Commercial/Catalog Price: \$8054

GSA Price: \$7009.37

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.

Commercial/Catalog Price: \$5387

GSA Price: \$4821.67

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.

Commercial/Catalog Price: \$7602

GSA Price: \$6811.41

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.

Commercial/Catalog Price: \$1251

GSA Price: \$1132.16

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.

Commercial/Catalog Price: \$3476

GSA Price: \$3128.4

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.

Commercial/Catalog Price: \$2323

GSA Price: \$2068.66

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.

Commercial/Catalog Price: \$3016

GSA Price: \$2744.56

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.

Commercial/Catalog Price: \$809

GSA Price: \$732.15

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.

Commercial/Catalog Price: \$1862

GSA Price: \$1684.83

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.

Commercial/Catalog Price: \$6906

GSA Price: \$5999.99

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.

Commercial/Catalog Price: \$10359

GSA Price: \$9426.69

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.

Commercial/Catalog Price: \$13812

GSA Price: \$12568.92

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.

Commercial/Catalog Price: \$4168

GSA Price: \$3731.99

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.

Commercial/Catalog Price: \$6252

GSA Price: \$5498.14

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.

Commercial/Catalog Price: \$8336

GSA Price: \$5558.74

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.

Commercial/Catalog Price: \$3016

GSA Price: \$2435

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.

Commercial/Catalog Price: \$4523

GSA Price: \$3899.13

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.

Commercial/Catalog Price: \$6031

GSA Price: \$4893

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)

Commercial/Catalog Price: \$5381

GSA Price: \$4740.66

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)

Commercial/Catalog Price: \$2682

GSA Price: \$2400

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)

Commercial/Catalog Price: \$15378

GSA Price: \$13659.88

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)

Commercial/Catalog Price: \$4035

GSA Price: \$3579.29

Accessories

Accessory name: COMPRESSOR ACCESSORIES

Manufacturer: MAKO

Mfg Part #: 003OWS1000

Contractor Part #: U003OWS1000

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

Commercial/Catalog Price: \$255

GSA Price: \$216.75

Accessory name: COMPRESSOR ACCESSORIES

Manufacturer: MAKO

Mfg Part #: 003OWS1001

Contractor Part #: U003OWS1001

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

Commercial/Catalog Price: \$211

GSA Price: \$179.35

Accessory name: COMPRESSOR ACCESSORIES

Manufacturer: MAKO

Mfg Part #: 003OWS1002

Contractor Part #: U003OWS1002

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

Commercial/Catalog Price: \$45

GSA Price: \$38.25

Accessory name: COMPRESSOR ACCESSORIES

Manufacturer: MAKO

Mfg Part #: 005H316-36

Contractor Part #: U005H316-36

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

Commercial/Catalog Price: \$33.92

GSA Price: \$28.83

Accessory name: COMPRESSOR ACCESSORIES

Manufacturer: MAKO

Mfg Part #: 005H316-60

Contractor Part #: U005H316-60

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

Commercial/Catalog Price: \$42.43

GSA Price: \$36.07

Accessory name: COMPRESSOR ACCESSORIES

Manufacturer: MAKO

Mfg Part #: 009MBACKIT-S2

Contractor Part #: U009MBACKIT-S2

Accessory Description: Modular BAC (MBAC) Integration Kit

Commercial/Catalog Price: \$2250

GSA Price: \$1912.5

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)**

Commercial/Catalog Price: \$3030

GSA Price: \$2575.5

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)**

Commercial/Catalog Price: \$3803

GSA Price: \$3232.55

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

Commercial/Catalog Price: \$2455

GSA Price: \$2086.75

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

Commercial/Catalog Price: \$2202

GSA Price: \$1871.7

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

Commercial/Catalog Price: \$2615

GSA Price: \$2222.75

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.

Commercial/Catalog Price: \$1041

GSA Price: \$884.85

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.

Commercial/Catalog Price: \$1212

GSA Price: \$1030.2

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.

Commercial/Catalog Price: \$1354

GSA Price: \$1150.9

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)

Commercial/Catalog Price: \$319

GSA Price: \$271.15

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)

Commercial/Catalog Price: \$159

GSA Price: \$135.15

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)

Commercial/Catalog Price: \$285

GSA Price: \$242.25

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)

Commercial/Catalog Price: \$343

GSA Price: \$291.55

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

Commercial/Catalog Price: \$6505

GSA Price: \$5529.25

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

Commercial/Catalog Price: \$6505

GSA Price: \$5529.25

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

Commercial/Catalog Price: \$6505

GSA Price: \$5529.25

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

Commercial/Catalog Price: \$6505

GSA Price: \$5529.25

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

Commercial/Catalog Price: \$6505

GSA Price: \$5529.25

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.

Commercial/Catalog Price: \$4835

GSA Price: \$4109.75

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.

Commercial/Catalog Price: \$4835

GSA Price: \$4109.75

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: 139.4

Part Number: OPT-SHUTDOWN

Description: Breathing Air Module Option - Shutdown audible alarm.

Quantity: 1 **Unit:** EA

Price: 75.65

Part Number: OPT-DUAL PRESS

Description: Breathing Air Module Option - Dual pressure switch.

Quantity: 1 **Unit:** EA

Price: 578.85

Part Number: OPT-LIQ-GGE

Description: Breathing Air Module Option - Liquid filled gauges.

Quantity: 3 **Unit:** ST

Price: 134.4

Part Number: OPT-COMON

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

Quantity: 1 **Unit:** EA

Price: 3005.6

Part Number: OPT-CCM

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

Quantity: 1 **Unit:** EA

Price: 3455.25



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 NEW	12-month
Factory REMANUFACTURED	12-month
Factory REPAIR & RETURN	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
Compressor Output Recommended							
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
Cascade System Recommended							
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 at 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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