



## Breathing Air Module - BAM

### Breathe Easy with MAKO Breathing Air Systems.

#### BREATHING AIR MODULE - BAM

Up to 414 bar g	9.9 - 56.4 m <sup>3</sup> /hr
Up to 6000 psi g	5.8 - 33.2 cfm
	165 - 940 l/min

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

#### SILENCED VERTICAL ENCLOSURE WITH LOW VIBRATION

- Compact design, small footprint
- Easy access for maintenance
- Components fully enclosed for added safety

#### EASY TO USE WITH GUARANTEED AIR QUALITY EXCEEDING EN 12021 / CGA GRADE D & E / NFPA 1500 / CSA AND MOST RECOGNIZED STANDARDS

- Compressor interstage pressure gauges included as standard
- High quality filtration system designed and manufactured by CompAir
- Automatic condensate system with reservoir and easy access drain
- Full range of manual and automatic control options

#### MODULAR DESIGN FOR MAXIMUM FLEXIBILITY

- Easily incorporated into existing installations
- Single Outlet or Integrated Fill Panel with 2 or 4 filling hoses
- Single or Dual Pressure filling capability
- Compatible with MAKO Containment Fill Station and Air Storage systems
- Optional Control System upgrades



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

Combining proven technology and global experience, the MAKO range brings you high quality breathing air you can trust.



## The Heart of the MAKO design

CompAir has over 100 years of experience designing and manufacturing compressors.

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

- **Long operating life**
- **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

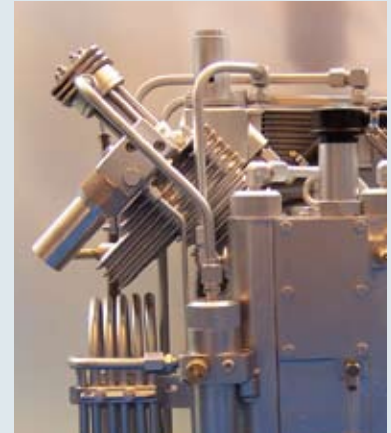
Designed and manufactured by MAKO, the filtration exceeds international standards EN 12021 / CGA Grade D & E / NFPA 1500 / CSA.

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

## User Friendly Controls

The standard controller features illuminated On / Off push buttons, hours run meter, final stage pressure gauge, plus high air temperature, low oil level / pressure and high air pressure shutdown lights.

For those with more complex requirements, MAKO offers a number of control option upgrades giving maximum flexibility and peace of mind.



BREATHE EASY WITH  
PROVEN TECHNOLOGY  
AT THE HEART OF  
EVERY UNIT

### Monitoring made easy CMM MONITOR

Electronic CO and Purification monitoring:

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



### Fully integrated controls for simple operation MEC CONTROLLER

All the advantages of the CMM Monitor, plus:

- **Full integrated system for user friendly control**
- **Self diagnosis with trouble shooting display**



# Flexible Filling Options

Whatever your filling requirements, MAKO has the solution for you.

## A. Integrated Filling Panels

The BAM range can be fitted with an integrated filling panel for quick and easy charging up to 5000 psi / 350 bar

### Filling Panel Options:

- 2 or 4 filling hoses
- Single or dual pressure

### Charging Connectors

The MAKO range provides a variety of connectors for cylinder filling, including:

**CGA 347 • CGA 346 • SCUBA Yoke / A Clamp • 200 bar / 2900 psi DIN • 300 bar / 4350 psi DIN •**

Filling Panels can be supplied as a remote unit on request.



## B. Containment Fill Station

The Containment Fill Station range is a market leading solution providing the ultimate in safe and convenient filling.

Cylinders are placed in the unit via a simple pull down door on the front of the unit. Filling can only commence once the door is closed. In the event of a cylinder, hose or valve rupture the unit is able to contain the full impact of the rupture, protecting the operator from injury.

### Options:

- 1, 2 or 3 positions for SCBA / SCUBA cylinders (size dependent)
- A variety of charging connections as shown in section A



## C. Storage and Cascade Systems

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

### Options:

- Horizontal or vertical storage racks are available in configurations of 2, 3, 4, 5 or 6 cylinders
- Cylinders can be supplied to meet DOT, ASME or CE specifications
- Cascade systems are available to optimize storage and filling capacity. These can be integrated into a Containment Fill Station or as a separate remote unit.



OPTIMIZE YOUR BREATHING AIR SYSTEM TO FIT YOUR CURRENT AND FUTURE REQUIREMENTS  
ALL COMPONENTS CAN BE EASILY INCORPORATED INTO EXISTING INSTALLATIONS

## TECHNICAL DATA

MODEL	MAX PRESSURE		STAGES	CHARGING RATE (0 - MAX PRESSURE)			COMPRESSOR rpm	DRIVE		WEIGHT		SOUND LEVEL dB(A)
	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
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)

BAM04 / BAM05 / BAM06(H) / BAM07(H)

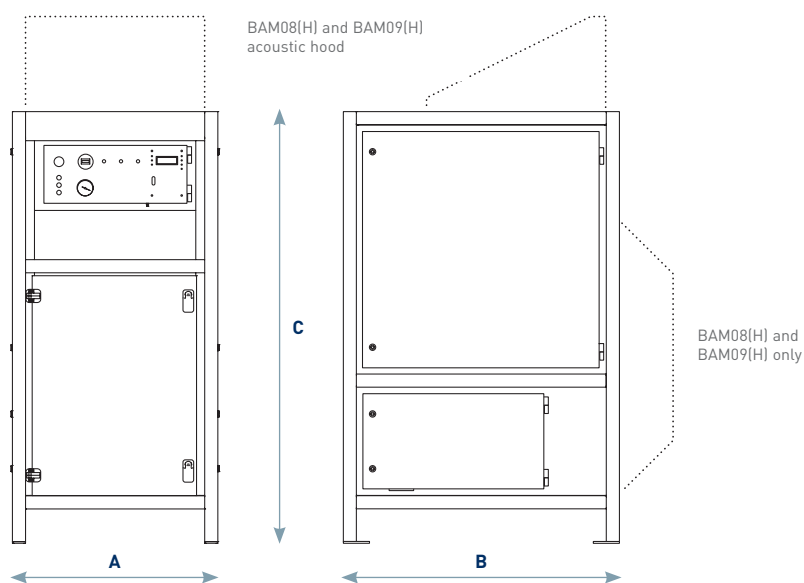
BAM08(H) / BAM09(H)

794mm x 1067mm x 1673mm

31 1/4" x 42" x 65 3/4"

794mm x 1272mm x 2061mm

31 1/4" x 50" x 81"



## NOTES:

- All technical details are subject to change.
- Performance figures are typical and are not the full range available.
- Figures based on inlet conditions of 20°C / 68°F, 1.013 Bar / 14.7 PSI.
- Charge rates measured in accordance with CompAir Ipswich standard No.27 Type 'A'.
- Electric motors are available in 50 & 60 Hz, Single & 3 Phase versions and with multiple voltage options.
- Tested and certified to equivalent of UL 1450 Standards. Meets all applicable CE directives.
- Sound pressure level at 1m/3ft.



Mako Compressors  
100 Gardner Park  
Peachtree City, GA 30269  
877-272-1675  
770-632-5071 fax  
www.makocompressors.com

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