

 **IDROCOMP**

 GasTechno
ENERGY AND FUELS



OIL FREE
COMPRESSORS

SCUBA APPLICATION PRODUCT CATALOG

WHAT CAN OUR COMPRESSORS DO?

Water is a source of energy and well-being and it's the means used by this booster technology for high-pressure compression of technical gases. Our compressors are designed and built according to the following principles:



**Compressors completely
oil free**



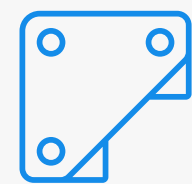
**Water technology for
gas compression**



**210-310 Bar max
pressure**



**2,2-8 Kw power engine
high efficiency**



**System entirely
stainless steel**



**Certified for gas
groups I and II**



Long life compressors



Low cost manufacturing

There are many high-pressure gas applications nowadays, including the diving world. This innovative compressor technology is suitable for all applications for the generation and compression of pure gases or breathable air, ensuring a long life for compressors or complete systems including the total security of breathing high-quality air or gas. GasTechno, with this catalog, shows the compressors dedicated to diving.

COMPRESSOR MINIBOOSTER MCS

This kind of compressor is a booster dedicated for gas transfer, as Oxygen. MCS booster needs to be supplied with high pressure in inlet connection, directly from Oxygen tank.

It's sufficient to connect the tank to be refilled in outlet line compressor, connect a power supply and switch on the compressor.

Max pressure
set 210 bar — 3045 psi.

If once the compressor has reached the maximum set pressure, it switches off.



Most popular choice!

COMPRESSOR MINIBOOSTER BCMS-4CMS

This kind of compressor is a booster dedicated for gas transfer or to comprise breathable air generated by the dryer or a technical gas by a generator.

The booster needs to be supplied with a min pressure 4 bar(g) up to max 100 bar (60 psi-1450 psi) inlet connection, directly from the gas tank.

It's sufficient to connect both tanks with suction and discharge connections compressor, connect a power supply and switch on the compressor.

Max pressure
set 210 bar – 3045 psi.

Once the compressor has reached the maximum set pressure, it switches off.



COMPRESSOR MINIBOOSTER BCS

This kind of compressor is a booster dedicated for gas transfer or to comprise breathable air generated by the dryer or a technical gas by a generator. The booster needs to be supplied with a min pressure 4 bar(g) up to max 100 bar (60 psi-1450 psi) inlet connection, directly from the gas tank.

It's sufficient to connect both tanks with suction and discharge connections compressor, connect a power supply and switch on the compressor.

Max pressure set 310 bar – 4500 psi.

Once the compressor has reached the maximum set pressure, it switches off.



BOOSTER TECHNICAL DATA

Booster Model	Max Pressure Outlet (Bar–Psi)	Flow @ 50 Bar Inlet (NI/min)	Power supply 50 Hz (Volt)	Electric power installed (Kw)	Step maint. gasket sealings (Years)	Dimensions W x L x H (mm)
MB MCS 15	210 - 3045	350	220	2.2	5	900 x 400 x 400

Booster Model	Max Pressure Outlet (Bar)	Flow @ 50 Bar Inlet (NI/min)	Power supply 60 Hz (Volt)	Electric power installed (Kw)	Step maint. gasket sealings (Years)	Dimensions W x L x H (in.)
MB MCS 15	210 - 3045	350	220	2.2	5	35.5 x 15.75 x 15.75

GAS SUITABLE FOR MINIBOOSTER MCS

The MB-MCS series compressor can compress all types of gases or gas mixtures. All compressors are suitable for gas groups I and II, such as air, nitrogen, oxygen, helium, argon, CO2...

USE OF BOOSTER MB-MCS

Idrocomp company has designed the Minibooster to respond to the need for the compression of gases coming from tanks up to max 200 bar pressure inlet and the refill of big or little tanks without changing the chemical characteristics of the gas or gas mixture, up to 210 bar.

This kind of technology is nowadays used in various sectors, such as on oil platforms, to refill oxygen tanks with breathable air or gas mixture in scuba diving, or to refill gas tanks for food or medical purposes.

BOOSTER TECHNICAL DATA

In general, you may use the MiniBooster every time you need to use OIL-FREE machines for high pressures.

EXAMPLE OF TANK REFILLING AT HIGH PRESSURE AND RELATIVE TIME

From a source, like 10 liters tank (610 cubic inches), filling of gas @ 200 bar, connected to the inlet fitting's Minibooster, need to refilling a 3 liters tank (183 cubic inches) empty, connected to the outlet fitting's Minibooster.

When tanks are connected to MB, pressures are stable and the MB it's switch on, after 15 seconds the little tank is refilled up to 210 bar, so the Minibooster switch off.

To function it automatic system, this MiniBooster needs to be supplied with electric power and high pressure directly from a source, so no air compressed needed, no oil lubrication, just clean water to compress and cooling the gas in compression phase, guaranteed low temperature, increasing safety, and efficiency.

WARRANTY

Thanks to the highest quality of their components and to the machining subjected to strict quality controls, our boosters have a two-year warranty from the date of installation.

BOOSTER TECHNICAL DATA

Booster Model	Max Pressure Outlet (Bar–Psi)	Flow @ 10 Bar Inlet (NI/min)	Power supply 50 Hz - 3ph (Volt)	Electric power installed (Kw)	Step maint. gasket sealings (Years)	Dimensions W x L x H (mm)
BCMS 15	210 - 3045	150	380	4	5	1300 x 600 x 500
4CMS 30	210 - 3045	320	380	7.5	5	1300 x 700 x 600

Booster Model	Max Pressure Outlet (Bar)	Flow @ 10 Bar Inlet (NI/min)	Power supply 60 Hz - 3ph (Volt)	Electric power installed (Kw)	Step maint. gasket sealings (Years)	Dimensions W x L x H (in.)
BCMS 13	210 - 3045	150	460	4	5	51.18 x 23.62 x 19.68
4CMS 26	210 - 3045	320	460	7.5	5	51.18 x 27.56 x 23.62

GAS SUITABLE FOR BOOSTER BCMS-4CMS

The BCMS-4CMS series compressors can compress all types of gases or gas mixtures. All compressors are suitable for gas groups I and II, such as air, nitrogen, oxygen, helium, argon, CO2...

USE OF BOOSTER BCMS-4CMS

Idrocomp company has designed the oil-free booster to respond to the need for the compression of gases coming from dryers/generators or directly from technical gas tanks with min 4 bar to max 100 bar pressure inlet and the refill of big or little bottles without changing the chemical characteristics of the gas or gas mixture.

BOOSTER TECHNICAL DATA

If you use this booster to decant gases from the gas tank or from a high-pressure font, the customer has to install a pressure reducer in the inlet connection to get max 100 bar pressure to the booster suction.

This kind of technology is nowadays used in various sectors, such as on oil platforms, to refill oxygen tanks with breathable air or gas mixture in scuba diving, or to refill gas tanks for food or medical purposes.

In general, you may use this booster every time you need to use OIL-FREE machines for high pressures

WARRANTY

Thanks to the highest quality of their components and to the machining subjected to strict quality controls, our boosters have a two-year warranty from the date of installation.

BOOSTER TECHNICAL DATA

Booster Model	Max Pressure Outlet (Bar–Psi)	Flow @ 10 Bar Inlet (NI/min)	Power supply 50 Hz - 3ph (Volt)	Electric power installed (Kw)	Step maint. gasket sealings (Years)	Dimensions W x L x H (mm)
BCS 15	310 - 4500	85	380	4	5	600 x 500 x 1700
4CS 30	310 - 4500	180	380	7.5	5	700 x 600 x 1700

Booster Model	Max Pressure Outlet (Bar)	Flow @ 10 Bar Inlet (NI/min)	Power supply 60 Hz - 3ph (Volt)	Electric power installed (Kw)	Step maint. gasket sealings (Years)	Dimensions W x L x H (in.)
BCS 13	310 - 4500	85	460	4	5	23.62 x 19.68 x 66.93
4CS 26	310 - 4500	180	460	7.5	5	27.56 x 23.62 x 66.93

GAS SUITABLE FOR BOOSTER BCS-4CS

The BCS-4CS series compressors can compress inert technical gases or gas mixtures. All compressors are suitable for gas group II, such as air, nitrogen, helium, argon, Co2, not suitable for hazardous gases.

USE OF BOOSTER BCS-4CS

Idrocomp company has designed the oil-free booster to respond to the need for the compression of gases coming from dryers, generators or directly from tanks with min 4 bar to max 100 bar pressure inlet and the refill of big or little bottles without changing the chemical characteristics of the gas or gas mixture.

If you use this booster to decant gases from cylinder packs, the customer has to install a pressure reducer in the inlet to get max 100 bar pressure.

This kind of technology is nowadays used in various sectors, such as on oil platforms, to refill inert gases or mixture tanks with breathable air or gas mixture in scuba diving, or to refill gas tanks for food or firefighters.

In general, you use this booster every time you need to use OIL-FREE machines for high pressures.

WARRANTY

Thanks to the highest quality of their components and to the machining subjected to strict quality controls, our boosters have a two-year warranty from the date of installation.