

Boost your productivity

A guide to our high-pressure booster range. (69 to 345 bar)

7141 - High Pressure Booster Range Brochure_Oct 2019.indd 1 19-11-2019 09:46:37

Boost productivity. Maximize safety!

When we talk about high pressure boosters, we simply mean a compressor which enables you to step up the pressure of the primary feed air compressor. If you require air or nitrogen at any pressure between 69 and 345 bar, Atlas Copco's high pressure booster with unique in-house designed pumper block is the most efficient choice. They are designed to be transported to your point of work – no matter how remote the location. Whether you are in rental, service industry or water well drilling; this portable booster is the best solution for your needs.



Efficiency and productivity

Our boosters further increase pressure ratio of air or nitrogen by approximately factor 2.7 and 2.9 per compression stage (up to 3 stages available). The integrated fuel tank autonomy further improves ease of use.

Finally, the bypass system allows you to connect the primary compressor to the pipeline before activating the booster; allowing you to gradually build up pressure in the target application.



Versatility and profitability

Through the new Xc4004 Smart air controller, the required output pressure can easy be defined with a touch of the button. You determine the pressure, while your application dictates the flow. For example in a drilling application, drilling speed can efficiently be increased, reducing the cost per meter drilled and improving your overall profitability.

In addition, the modular design of our dual stage boosters, allow you to change from dual to single stage, increasing the utilization rate of your investment to fit various requirements.



Serviceability

Our pumperblock design not only efficient and small, it is also easy to maintain. The standard components don't require special oils and all service points are easily accessible. A booster can be maintained by one service technician without the need for a crane or special tools within 4 hours.

In addition centralized drains impact daily ease of use. Finally the bypass system allows for easy cleaning of the pipes before usage to avoid downtime due to particles in the booster.



Transportability

- Our in-house pumperblock design allows for a unique set-up of all booster components, greatly impacting the footprint of the high pressure booster. Even a 4.4m^2 booster can boost gas up to 69 bar.
- This small footprint limits transportation costs as both the booster and feed air compressor can be combined on one trailer.
- With the weight as low as 2950 kg, even demanding offshore applications experience no limitations.
- Standard forklift slots and lifting eyes further improve maneuverability once on site.



Safety

Our state-of-the art Xc4004 controller is constantly monitoring all vital parameters of the booster. In case of pending failure, the controller will protect your investment by automatically shutting down and thus avoiding damage to core components. It will also indicate when preventive maintenance is required, avoiding unexpected downtime. The controller informs through audible alarms if the temperature of the cylinder valves reaches a certain level, even indicating the specific valve that requires maintenance.



Smart air controller

From improving versatility to increase the utilization rate of your investment, to minimizing downtime by preventive service announcements and audible alarms; the new Xc4004 Smart air controller changes the process of high pressure boosting.
In addition

- A clear 7 inch screen with all key parameters at first glance.
- Access to historical data.
- Remote controlling

With this controller, your booster is ready for the future.

More than just a booster

A high pressure booster is never a stand-alone product but part of a set-up defined by the application. Depending on the requirements, the set-up can contain a combination of:

- Required boosted pressure: defined by the combination of the booster with the output pressure of the feed air compressor (either 24 or 35 bar)
- Required dew point : a dryer can bring the dew point to -40°C/ -40°F
- Type of gas: adding a nitrogen generator can change the compressed air of the feed air compressor to nitrogen gas.

The end result will be a high pressure gas (either air or nitrogen) up to 345 bar and up to...dew point.

Atlas Copco can assist you with every step on the way, contact us today to learn more.

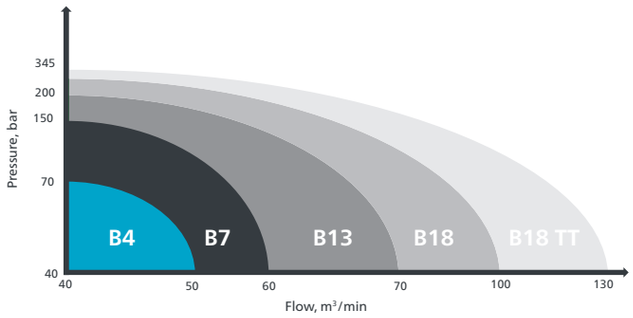





Our complete booster range

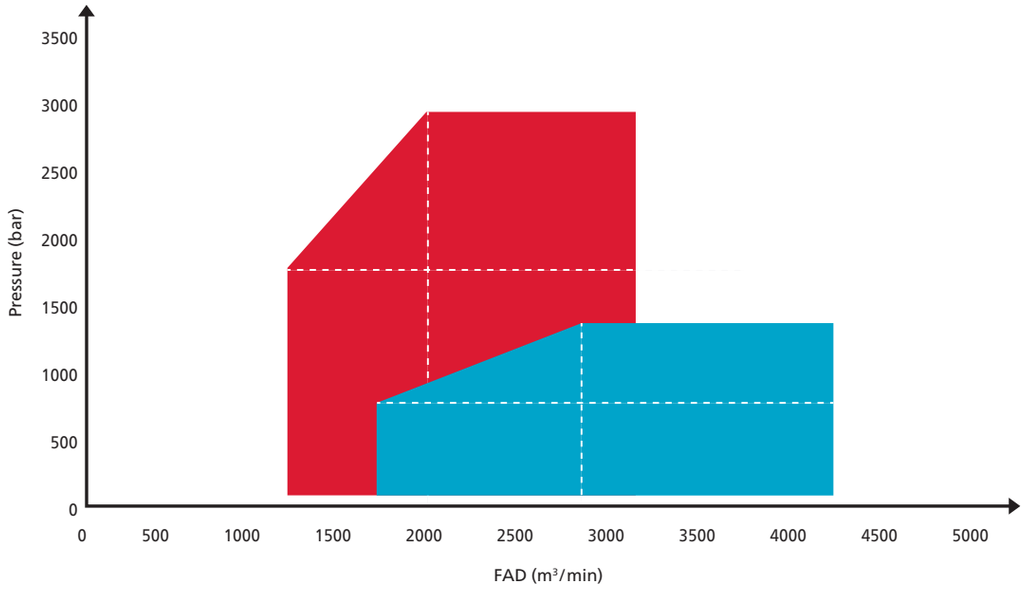
The modular design of our booster range allows you to select the booster that is the best fit for your needs. We have models in 1, 2 or 3 stages, that are compliant with several emission regulations eg.., T4F.

In addition, the Xc4004 smart air controller allows to easy set the required pressure. With flow following your application, this makes the high pressure booster the perfect fit for applications that require a variation in flow or pressure.



2 in 1: boost your utilization rate

Thanks to our modular design, 2 stage boosters can be used in 1 stage mode, further increasing the range of pressure and flow with one high pressure booster.



You buy much more than just a booster

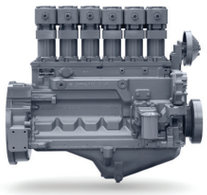
Maximum pressure at minimum footprint

Our unique pumperblock design impacts the footprint significantly. Less piping, a more clean lay out and standard components also improve the serviceability. Service can be done by 1 technician, without the need for a crane or special tools, in under 4 hours.



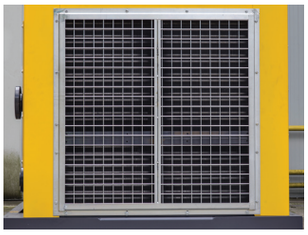
Versatility is key

The new controller allows to set the pressure with the touch of a button, while the modular pumperblock design increases utilization rate as all 2 stage models can also be switched to a single stage set-up.



Versatility

All boosters are standard equipped with both pre and after-coolers; making them compatible with any air compressor as feed air.



Fuel efficiency

When needed, the bypass system allows you to connect the primary compressor to the pipeline before activating the booster.

This allows for a fluent, safe and gradual pressure build up in your application. As a result, one complete installation allows you to transition from low to high pressure.



Transportability is key

All models are standard equipped with a lifting eye and forklift slots. Combined with the small footprint and low weight, these high pressure boosters can be transported to your point of work – no matter how remote the location.

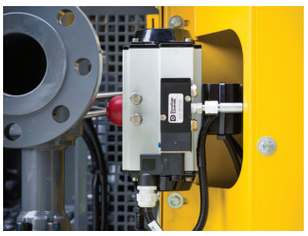




You are in control

Our Xc4004 controller offers

- Clear view of all data
- Preventive maintenance
- Temperature sensors for each of the air cylinder valves
- Historical data
- Audible warnings
- Remote monitoring
- Additional gauges offer a clear view on both air inlet and outlet pressure



Efficient no load
The automatic load/ unload valve keeps an application under pressure while the booster goes in unload; saving energy.



Water separator with level switch (one individual separator per stage) and metal braided airline hoses as standard.



Centralized drain point for all fluids.

Stop compressing air – start controlling it!

Smart Air Xc4004 controller

The Smart Air Xc4004 controller features the latest innovations. We believe a controller should put you in complete control, while being intuitive, and most importantly easy to use and navigate. Smart controls also protect your investment: improve your efficiency while decreasing the operating costs of your equipment through advanced insights.

Advanced features:

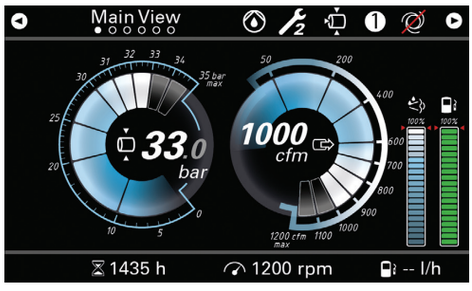
Smart user interface with key parameters at first sight.

Mirror application for remote control.

Audible, clear warning system for any deviations.

Robust design which resists water and dust (IP67 rated).

Takes efficiency, control and connectivity to the next level.



Easy to use interface

- 7 inch LED screen.
- Simultaneous view of pressure and flow increase control on the output flow required by your application.
- Visible fuel and add blue levels as well as running hours avoid unnecessary downtime.
- Personalized interaction through metrics and language settings.

SMART AIR
Xc4004
CONTROLLER

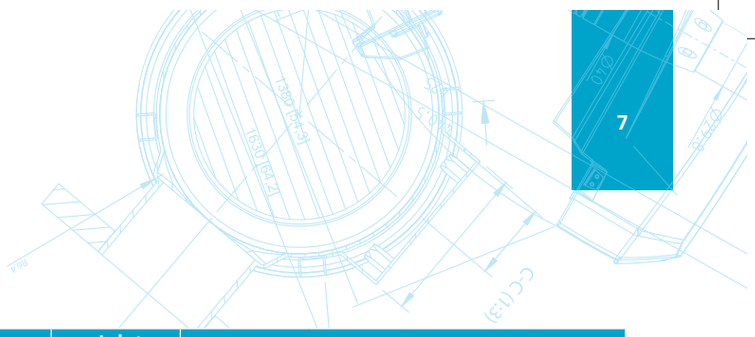
Powerful insights increase uptime

- Easy access to trends of 15 parameters.
- Increase uptime through preventive maintenance.



Save time through remote controlling

- Mirror application: control feed air compressor through second controller at point of use.
- All machine parameters remotely adjustable: Multi pressure/flow settings, emergency stop.
- Hard wired or RRC radio remote connection.



Technical data overview

	Gauges Model	Engine Specification		Engine power kw	Com-pression stages	Inlet pressure		Outlet performance			
						psi	bar	cfm	m³/min	psi	bar
	B4-41/1000	Cummins QSB4.5	T3/G3	113	1	350	24	1350	38	1000	69
	B7-41/1000	CAT C7.1	T3/G3	205	1	350	24	2150	61	1000	69
	B7-42/2175	CAT C7.1	T3/G3	205	2	350	24	1700/1220	49/35	1000/2175	69/150
	B13-62/2175	CAT C13	T3/G3	-	2*	350	24	2800/2000	80/56	1000/2175	69/150
	B13-63/5000	CAT C13	T3/G3	328	3	350	24	1200	34	5000	345
	B18-62/2175	CAT C18	T3/G3	470	2*	350	24	4000/2800	112/80	1000/2175	69/150
	B18-63-3000	CAT C18	T3/G3	470	3	350	24	1950	55	3000	207
	B18-63/5000	CAT C18	T3/G3	470	3	350	24	1750	50	5000	345
	B18TT-62/2175	CAT C18TT	T2	563	2*	350	24	4500/3200	125/91	1000/2175	69/150
	B18TT-62/3000 35 bar inlet	CAT C18TT	T2	563	2*	500	35	4500/3200	125/91	1450/3000	100/207
T4F Range	B4-41/1000	Cummins QSB4.5	T4 Final	113	1	350	24	1350	38	1000	69
T4F Range	B7-41/1000	CAT C7	T4 Final	205	1	350	24	2150	61	1000	69
T4F Range	B7-42/2175	CAT C7	T4 Final	205	2*	350	24	1800/1250	50/36	1000/2175	69/150
T4F Range	B13-62/2175	CAT C13	T4 Final	400	2*	350	24	2800/2000	80/56	1000/2175	69/150
T4F Range	B18TT-62-3000 35 bar inlet	CAT C18TT	T4 Final	563	2*	500	35	4300/3100	122/87	3000	207

Engine choice available will depend on the region of the world where the machine is being installed.
*All two stages machines can also be run single stage.

Weights and dimensions:

	Model	Length (cm)	Width (cm)	Height (cm)	Weight (kg)
	B4-41/1000	248	180	179	3200
	B7-41/1000	353	194	183	3574
	B7-42/2175	363	216	213	4413
	B13-62/2175	485	223	226	6740
	B13-63/5000	487	223	224	7000
	B18-62/2175	544	223	242	7600
	B18-63/3000	544	223	244	9300
	B18-63/5000	544	223	244	9300
	B18TT-62/2175	544	223	245	9500
	B18TT-62/3000 35 bar inlet	544	223	245	9700
T4F Range	B4-41/1000	255	180	179	3500
T4F Range	B7-41/1000	353	194	191	3800
T4F Range	B7-42/2175	381	216	213	4700
T4F Range	B13-62/2175	485	223	226	7100
T4F Range	B18TT-62-3000 35 bar inlet	544	223	245	9700

Please ask a representative for a full data sheet, customized to your needs.

Power Technique Solutions Portfolio

Atlas Copco's Power Technique Business Area has a forward-thinking philosophy. For us, creating customer value is all about anticipating and exceeding your future needs – while never compromising our environmental principles. Looking ahead and staying ahead is the only way we can ensure we are your long term partner.

Air compressors

Ready to go



- 1-5 m^3/min
- 7-12 bar

Versatility



- 5.5-22 m^3/min
- 7-20 bar

*Diesel and electric options available

Productivity partner



- 19-116 m^3/min
- 10-345 bar

Handheld tools

Pneumatic tools



- Breakers (2.5 – 40 kg)
- Rockdrills (5 – 25 kg)
- Underground Rockdrills
- Additional Air Tools

Hydraulic tools



- Breakers (11 – 40 kg)
- Additional Hydraulic Tools
- Powerpacks

Petrol engine driven tools



- Breakers & Tie Tampers (25 kg)
- Combi Drills (23 Kg)

Generators



- Portable
- Mobile
- Industrial

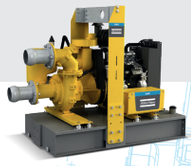
*Multiple configurations available to produce power for any size application

Light towers



- Diesel LED and MH
- Electric LED
- Battery LED

Dewatering pumps



- Submersible
- Surface
- Small portable

*Diesel and electric options available

Photos and illustrations contained herein might depict products with optional and/or extra components which are not included with the standard version of the product and, therefore, are not included in a purchase of such product unless the customer specifically purchases such optional/extra components. We reserve the right to change the specifications and design of products described in this literature without notice. Not all products are available in all markets.

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