PRODUCT DATASHEET

BOOSTER COMPRESSOR

B7-42/2175

1,288 SCFM / 150 BAR (2175 PSI)

AUSTRALIA | UNITED ARAB EMIRATES | SAUDI ARABIA | NEW ZEALAND | KAZAKHSTAN | TURKEY | GEORGIA | AZERBAIJAN | IVORY COAST | ITALY
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B7-42/2175
BOOSTER COMPRESSOR

SPECIFICATIONS		
Model		B7-42/2175
Engine Specification		CAT C7.1 T3/G3
Engine Power kw		205
Compression Stages		2
Inlet Pressure	psi	350
	bar	24
Outlet Performance	cfm	1700/1220
	m^3/min	49/35
	psi	1000/2175
	bar	69/150

WEIGHT AND DIMENSIONS		
Length	cm	363
	inch	143
Width	cm	216
	inch	85
Height	cm	213
	inch	84
Weight	kg	4413
	lbs	9729

STANDARD SCOPE OF SUPPLY

The Atlas Copco Hurricane B7-42/2175 is a multi-stage oil-lubricated piston type air/nitrogen compressor, powered by a Caterpillar C7 diesel engine. Compact and light, it gives you as much power as larger and heavier units on the market. It provides you with a high pressure, gain penetration rate for your drilling applications. Applications include mineral exploration and blast hole drilling, water well and geothermal drilling, oil & gas exploration drilling, nitrogen generation, pipeline services and well services.

Constructed from genuine high-quality parts, Hurricane B7-42/2175 booster offers user-friendliness, easy serviceability, and economical operation to ensure best-in-class cost of ownership.

FEATURES

- Automatic load/unload system
- On board fuel tank
- Booster bypass manifold
- Engine speed adjustment
- Double acting concentric valves
- Water-cooled booster block
- Pre-cooler (a+15°F / 8°C) & suction scrubber tank
- After-cooler (a+50°F / 28°C)
- Low pressure switch at booster inlet
- Open skid with four point lifting
- 24 volt DC starting and operating system
- Suction, inter-stage and discharge safety relief valves
- Full function instrument panel monitoring all pressures,temperatures and controls with full protection shutdown and fault indicators

BENEFITS

- Worldwide service support
- Economical in transport and installation
- Longer valve life & optimal performance in high ambient conditions
- Optimal performance in humid ambient conditions
- Optimal performance in low ambient conditions
- Economical operation – lower fuel consumption
- Adjustable capacity to match the feed-air compressors
- Maintains minimum compression ratio – avoids formation of condensate
- Easy to operate
- Optimum safety for your equipment
- High reliability

SINGLE STAGE MODE

CAPACITY (SCFM) AT VARIOUS PRESSURE AND RPM

Suction Pressure (psig)	Discharge Pressure (psig)	1800 rpm	1600 rpm	1400 rpm	1200 rpm
350	800	1600	1422	1244	1067
325	745	1490	1325	1159	994
300	689	1381	1227	1074	921
275	633	1271	1130	989	847
250	577	1162	1033	904	774
225	521	1052	935	818	701

CAPACITY (M^3/MIN) AT VARIOUS PRESSURE AND RPM

Suction Pressure (barg)	Discharge Pressure (barg)	1800 rpm	1600 rpm	1400 rpm	1200 rpm
24.14	55	45	40	35	30
22.41	51	42	38	33	28
20.69	47	39	35	31	26
18.97	44	36	32	28	24
17.24	40	33	29	26	22
15.52	36	30	27	23	20

NOTE:

Areas highlighted in **green** are optimized for concentric valve performance and valve life.

Areas highlighted in **yellow** may experience some losses in valve efficiency and valve life.

TWO STAGE MODE

CAPACITY (SCFM) AT VARIOUS PRESSURE AND RPM

Suction Pressure (psig)	Discharge Pressure (psig)	1800 rpm	1600 rpm	1400 rpm	1200 rpm
350	2175	1288	1145	1002	859
325	2025	1200	1066	933	800
300	1875	1112	988	865	741
275	1725	1023	910	796	682
250	1575	935	831	727	623
225	1425	847	753	659	565
210	1335	794	706	618	529

CAPACITY (M^3/MIN) AT VARIOUS PRESSURE AND RPM

Suction Pressure (barg)	Discharge Pressure (barg)	1800 rpm	1600 rpm	1400 rpm	1200 rpm
24.14	150	37	33	28	24
22.41	140	34	30	27	23
20.69	129	32	28	25	21
18.97	119	29	26	23	19
17.24	109	27	24	21	18
15.52	98	24	21	19	16
14.48	92	23	20	18	15

NOTE:

Areas highlighted in **green** are optimized for concentric valve performance and valve life.
Areas highlighted in **yellow** may experience some losses in valve efficiency and valve life.

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.

Serviceability

Our pumper block design is 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, our boosters' centralized drains offer ease of use in your daily operations. 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 pumper block design allows for a unique set-up of all booster components, greatly impacting the footprint of the high pressure booster. Even a 4.4 m² (47ft²) booster can boost gas up to 69 bar (1000 psi).
- 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 (6500 pounds), even demanding offshore applications experience no limitations.
- Standard forklift slots and lifting eyes further improve maneuverability once on site.

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, allows you to change from dual to single stage, increasing the utilization rate of your investment to fit various requirements.

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.

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 AdBlue® levels as well as running hours avoid unnecessary downtime.
- Personalized interaction through metrics and language settings.

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.