

NRC International GmbH



BOOSTER PUMP CATALOG



The TEC booster series from NRC – Specially developed for professional diving



NRC International presents the safest air driven booster pumps, designed with German precision and manufactured to the highest standards. Trust us to enhance your diving experience with reliability and safety.

NRC International Team

Contents

Booster features	04
The 3 NRC boosters	05
Booster pump Type 220/1	06
Booster pump Type 220/2	07
Booster pump Type 300/2	08
Booster pump accessories	09



Important Safety Warning:

Proper training and servicing of the booster pump are essential for safe operation. Nrc International cannot be held responsible for any accidents resulting from improper use or failure to follow recommended maintenance or incorrect usage.



**HOW
BOOSTERS
WORK**

Booster pump features



Highlights

- 1 **Non Metal materials tested and approved for oxygen compatibility**
 - Our special piston rings are a perfect balance between tightness and sliding friction as well as compatibility with pure oxygen.
- 2 **Hardened high pressure Cylinders**
 - Hardened and cross ground cylinder tube material for longest life cycles.
- 3 **Special material used to evacuate heat from the Valve head**
 - Brass alloy for fast temperature removal from the compression chamber.
- 4 **Drive gas outlets in the position to cool the pressure pipes**
 - The position of the drive air outlets are chosen to obtain the maximum cooling effect.
- 5 **No direct short 90 degrees angles on the pressure outlets**
 - Attention was paid to large Radiuses in order to minimize the chances of cavitations.



Safe and efficient diving experience

- 6 **Low pressure Cylinder tube coated with hard eloxal**
 - Drive cylinder tubes coated with a hard anodized layer for a long service life.



- 7 **No teflon seal tapes**

100% STAINLESS STEEL
No Teflon inner core



8

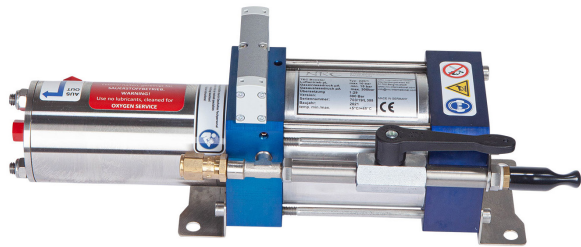
FILLING AND DECANTING HOSES

ONLY WITH NRC



Overview 3 NRC Boosters

220/1



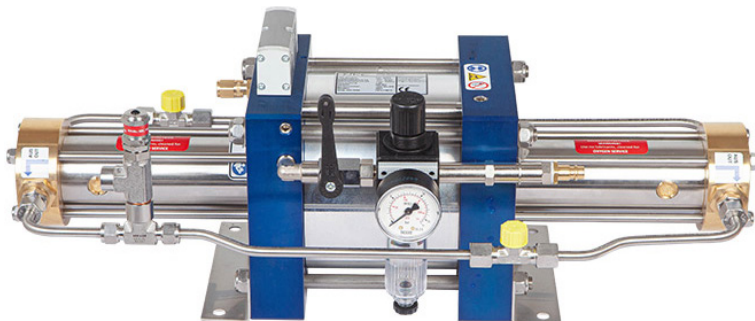
13 cm³
CE

220/2



26 cm³
CE

300/2



100 cm³
CE

MODEL NUMBER	DISPLACEMENT VOLUME	WEIGHT	MADE FOR	VERSION	OTHER
220/1	13 cm ³	4 kg	Rebreather	232 / 300 bar	Single piston
220/2	26 cm ³	5,5 kg	Rebreather Doubles Bailout / Stages	330 bar pressure safety valve	Double piston
300/2	100 cm ³	22 kg	Commercial Dive centers Storage tanks	330 bar pressure safety valve	Double piston

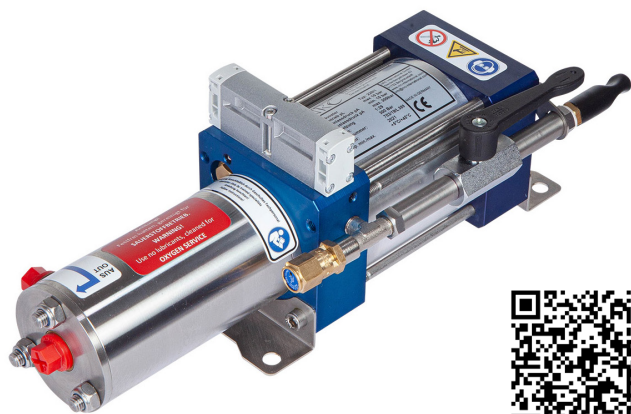


220/1

Rebreather diver booster pump

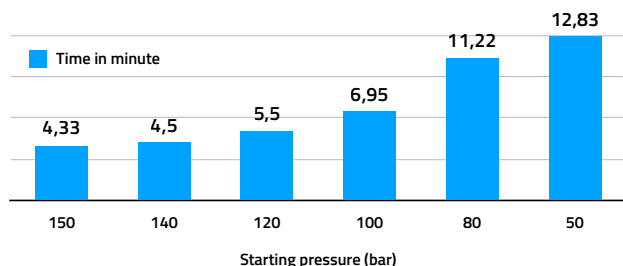
220/1

SPECIFICATIONS

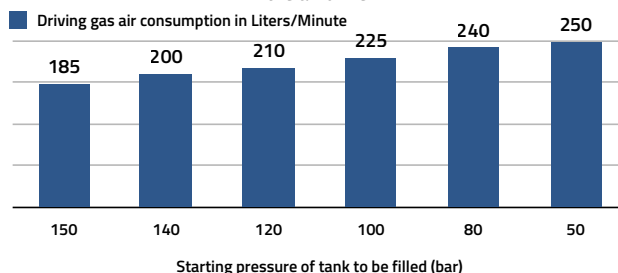


- 13 cm³ compression room
- Specially developed for the use of oxygen
- Ideal as a travel booster with 4kg
- Perfect for rebreather divers
- Ready for connection
- 8S in/out
- Nw 7.2 quick connection
- 200 or 300 Bar Version

Filling time from starting pressure to 200 bar with a 10 litre volume, measured at a constant 8 bar pL on the air drive.



Driving gas air consumption to fill a tank from a starting pressure to reach 200 bar with a 10 litre volume, measured at a constant 8 bar pL on the air drive.



CONFIGURATION

BOOSTER SET

Water resistant booster set



Ready-to-Connect Booster Set, which comes in a waterproof case weighing approximately 13kg and includes

- 1.65 meter stainless steel braided discharge hose
- 1.65 meter stainless steel braided fill hose
- G5/8" 200 Bar pressure regulator
- 2 meter control air hose
- Standard protective water resistant case with handle 60cm x 44cm x 23cm (L/W/H)



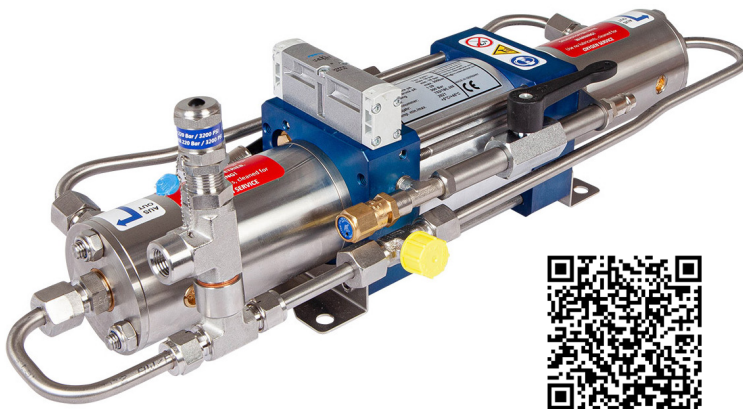


220/2

Rebreather diver, doubles, bailout, stages booster pump

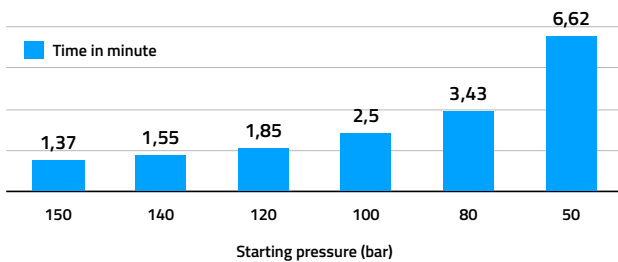
220/2

SPECIFICATIONS

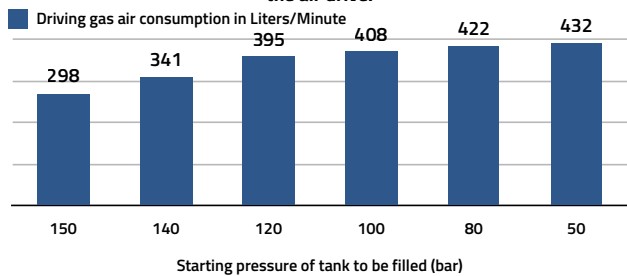


- 26 cm³ compression room
- Specially developed for the use of oxygen
- Ideal for mobile use 5.5 kg
- Perfect for rebreather divers, doubles, stages
- Ready for connection
- Final pressure 232 or 300 bar
- 8S in/out
- Control air safety valve 10.5 bar
- NW 7.2 connection
- Ultimate pressure safety valve up to 330 bar

Filling time from starting pressure to 200 bar with a 10 litre volume, measured at a constant 8 bar pL on the air drive.



Driving gas air consumption to fill a tank from a starting pressure to reach 200 bar with a 10 litre volume, measured at a constant 8 bar pL on the air drive.



CONFIGURATION

BOOSTER SET

Water resistant booster set



Ready-to-Connect Booster Set, which comes in a waterproof case weighing approximately 16kg and includes

- 1.65 meter stainless steel braided discharge hose
- 1.65 meter stainless steel braided fill hose
- G5/8" 200 Bar pressure regulator
- 2 meter control air hose
- Standard protective water resistant case with handle 60cm x 44cm x 23cm (L/W/H)



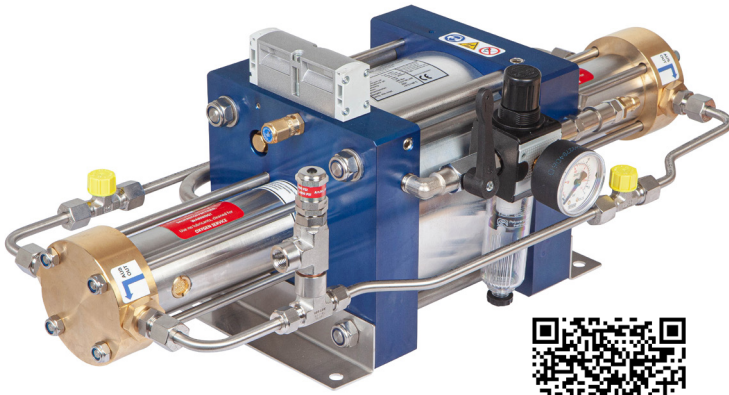


300/2

Commercial use, dive centers, storage tanks booster pump

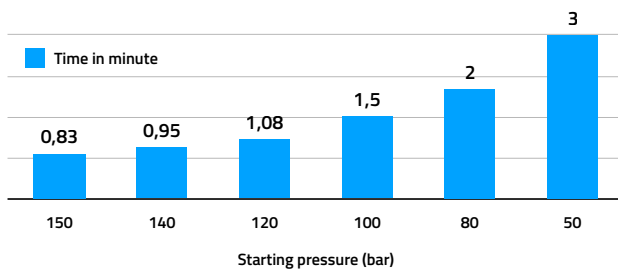
300/2

SPECIFICATIONS

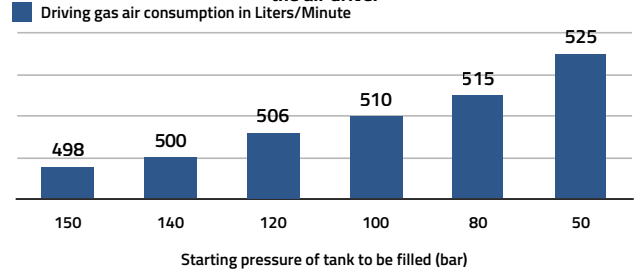


- 100 cm³ compression room
- Specially developed for the use of oxygen
- Ideal as a portable booster with 33kg
- Perfect for commercial use and dive centers
- Ideal for storage tanks
- Ready for connection
- 8S in/out
- Nw 7.2 quick connection
- 200 or 300 Bar Version

Filling time from starting pressure to 200 bar with a 10 litre volume, measured at a constant 8 bar pL on the air drive.



Driving gas air consumption to fill a tank from a starting pressure to reach 200 bar with a 10 litre volume, measured at a constant 8 bar pL on the air drive.



CONFIGURATION

BOOSTER SET

Water resistant booster set



Ready-to-Connect Booster Set, which comes in a waterproof case weighing approximately 33kg and includes

- 1.65 meter stainless steel braided discharge hose
- 1.65 meter stainless steel braided fill hose
- G5/8" 200 Bar pressure regulator
- 2 meter control air hose
- Standard protective water resistant case with handle 87cm x 57cm x 36cm (L/W/H)





PRESSURE REDUCERS

AVAILABLE

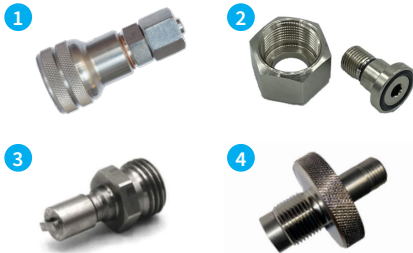


■ **PRESSURE REDUCER G5/8 300 BAR**
0-10 bar with NW 7.2 connection and ball valve

■ **PRESSURE REDUCER G5/8 200 BAR**
0-10 bar with NW 7.2 connection and ball valve

ADAPTERS

MORE AVAILABLE ON OUR WEBSITE



1 **ADAPTER FOR BOOSTER 220/2 AND 300/2**
Input-output adapter G 5/8" 200 Bar G1/4 BSPP

2 **OXYGEN CONNECTOR**
G 3/4" union nut with connecting shaft G 1/4"

3 **ADAPTER INFLATOR**
G1/4" AG stainless steel

4 **CONNECTION SHAFT WITH HANDWHEEL**
G5/8" 200bar external thread to M16x1.5 mm (8S) external thread

FILLING HOSES

AVAILABLE



■ **FILLING HOSE ANALOGUE 1.5 METERS**
Analogue pressure gauge and DIN G5/8" connection

■ **FILLING HOSE DIGITAL 1.5 METERS**
Digital pressure gauge and DIN G5/8" connection

PRESSURE GAUGES

AVAILABLE



ANALOGUE ■ **MANOMETER M26x2 thread 200 bar Nitrox standard**

■ **MANOMETER G5/8" 200/300 Bar**

DIGITAL ■ **MANOMETER M26x2 thread 200 bar Nitrox standard**

■ **MANOMETER G5/8" 200/300**

SERVICE KIT

AVAILABLE



■ **PARTIAL SERVICING KIT**

■ **FULL SERVICING KIT**



HOSE



■ 2 METER COMPRESSED AIR HOSE

Antistatic drive hose With NW 7.2 coupling and NW 7.2 plug
Internal hose Ø : 6 mm
External hose Ø : 13mm

GREASE



■ OXYGEN GREASE

Service temperature range: -40 / +250 °C
BAM tested and approved Up to 440 bar O² at 60 degrees
Non-flammable and non-combustible

GREASE



■ GREASE FOR BOOSTER DRIVE SIDE (10 grams)

High thermal stability
Good sealing effect
Neutral behavior towards metals and plastics (thermoplastics and elastomers)
Not compatible with oxygen

FILTER



■ FILTER CONTROLLER FOR BOOSTER

Input 0.5 - 16bar up to 1600l/min - Quick release fasteners standard NW 7.2
Polycarbonate container
Semi-automatic condensation tray



Scan for more
accessories



Sale and delivery

Your safety and satisfaction are our top priority

At Nrc International, our employees are dedicated to providing excellent customer service. We pride ourselves on going the extra mile to assist our customers and meet their needs. If you have any questions or concerns, please do not hesitate to reach out to us we are always available to help.

For information about delivery, please refer to our website where you can find more details.



Customer Service

Tel: +49(0)2261/500414
Fax: +49(0)2261/500415
E-mail: info@nrc-international.com

Notes



NRC International GmbH
Karlstrasse 21a
51702 Bergneustadt
Germany

Info@nrc-international.com
+49 2261 500414

WWW.NRC-INTERNATIONAL.COM