

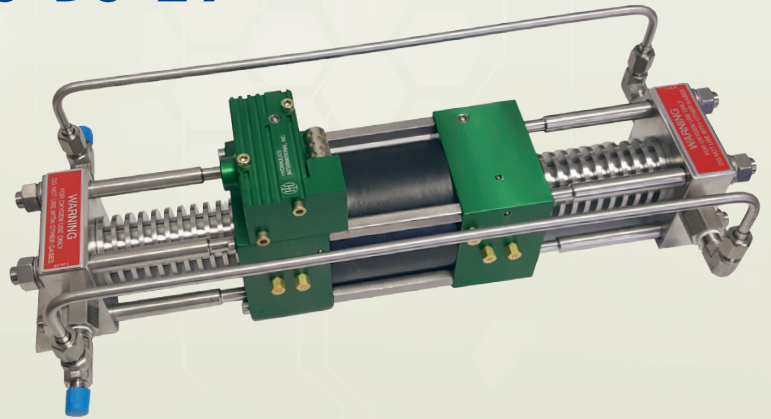
REBREATHER OXYGEN BOOSTER

MODEL 3G-DS-29

GB505

Hydraulics International, Inc. (HII) air driven gas booster is designed to boost gas from as low as 400 psi (28 bar) up to 5000 psi (345 bar). The unit may be driven with a low pressure conventional air compressor or regulated high-pressure air storage supply (SCUBA, SCBA or NITROGEN bottles).

The high-pressure sections of the booster operate dry, hydrocarbon-free with complete separation from drive section.



IDEAL FOR GENERAL AVIATION, MUNICIPAL FIRE, RESCUE, RECREATIONAL & TECHNICAL DIVERS, DIVE SHOPS, YACHTS AND RESCUE SERVICES

KEY BENEFITS:

- **Increase Number of Fills:** Up to 50%
- **Eliminate Cascading:** Allows you to fill or top-off from storage as low as 400 psi (28 bar)

KEY FEATURES:

- **Boost** gas pressure from 400 psi to 5000 psi
- **Hold Pressure.** Can be controlled to stop at any predetermined pressure and hold that pressure indefinitely without consuming power, and restart under full load
- **Intrinsically Safe.** Compressed air reduces risk of heat, flame, spark, or electrical shock
- **Contamination FREE.** Separation between drive and gas section uses three static seals with dual vents

OPTIONAL CONTROLS:

- **Low Pressure Air Controls**
Filter and on/off valve
- **High Pressure Air Controls**
HP regulator, relief valve and on/off valve
- **Oxygen Fill Accessory Kit**
Includes inlet 5-foot hose assembly with CGA connector; outlet 5-foot hose assembly with high pressure filter, on/off valve, gauge, and DIN connector with bleeder
- **Watertight Protective Case with Wheels**
22"L x 14"W x 9"H (559 mm x 356 mm x 229 mm)
- **Safety Low & High Pressure Pilot Valves**
Set to automatically stop & restart the booster
- **Outlet Pressure Relief Valve**

PERFORMANCE:

Approximate fill-time* for a 19-ft³ (0.54-m³) O₂ Bottle to 2,400-psi (165 bar)

SYSTEM PRESSURE AFTER EQUALIZATION	APPROX. FILL-TIME	APPROX. FILL RATES
2000 psi (138 bar)	51 seconds	5.3 scfm (150 nl/min)
1500 psi (103 bar)	106 seconds	4.0 scfm (113 nl/min)
1000 psi (69 bar)	244 seconds	2.7 scfm (76 nl/min)
500 psi (34 bar)	640 seconds	1.4 scfm (40 nl/min)

*Based on 105-psi shop air and 60 cycles per minute. **NOTE:** DO NOT exceed 200 psi/min. transfer rate for pure oxygen and 50-70 psi/min. during mixing.



HYDRAULICS INTERNATIONAL, INC.® (HII)
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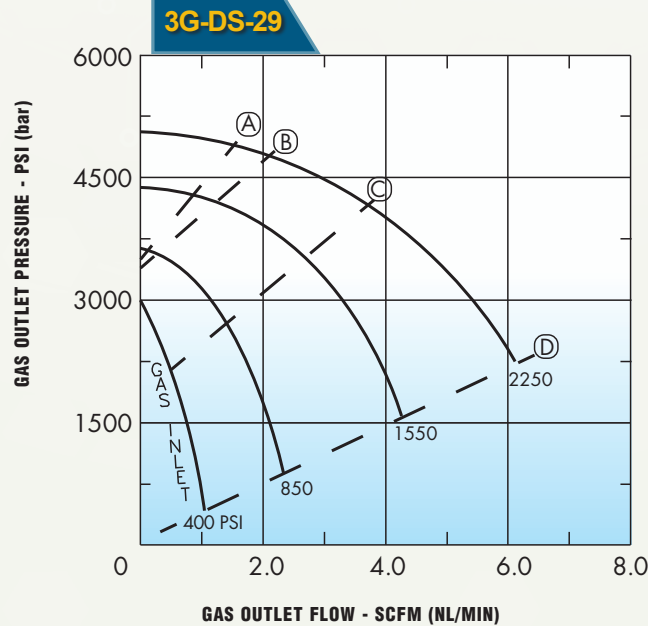
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SPECIFICATIONS:

▪ Dimensions:	18" L x 4.75" D x 8" H	▪ Air Drive:	1/8" NPTF
▪ Weight:	18-pounds (8.1 Kg)	▪ Gas Inlet:	-4 SAE (7/16" x 20 straight threads)
▪ Pressure Ratio:	29:1	▪ Gas Outlet:	-4 SAE (7/16" x 20 straight threads)
▪ Maximum Outlet Pressure:	9000-psi (621 Bar)	▪ Exhaust:	1/4" NPTF
▪ Max/Min Drive Air Pressure:	150/12-psi (10/0.8 Bar)	▪ Remote Pilot:	1/8" NPTF

PERFORMANCE CURVE



PERFORMANCE CURVE

(Assume an air drive source of approximately 100 psi from 1/4" I.D. piping)

Dashed lines represent approximate air consumption:
A: 2 SCFM (57 NL/MIN) **B:** 4 SCFM (113 NL/MIN) **C:** 6 SCFM (170 NL/MIN) **D:** 9 SCFM (255 NL/MIN)

Other HII Quality Products: 100% USA Made



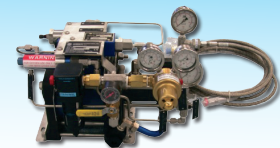
Booster mounted on a Watertight Protective Case



Electric Driven Booster Packages



2-Bottle Hand Truck with Booster



Portable Booster System with Safety Valves



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