AIR DRIVEN STANDARD SYSTEM PACKAGES

FOR HIGH PRESSURE:

AIR

GAS

LIQUID

CONTENTS

- Standard Liquid Pump Packages ............................................. 2, 3
- Standard Gas Booster Packages ............................................. 4, 5
- Standard Air Pressure Amplifier Packages .............................. 6
- Custom Units - Examples ..................................................... 7
- HII Overview .......................................................................... 7
- Other Literature ..................................................................... 8

www.hiigroup.com
Chatsworth, California, USA
HIGH-PRESSURE LIQUID PUMP PACKAGES

**TYPE HIHPB**

**DESCRIPTION:**
Any 3L, 5L, or 7L series pump mounted on an aluminum base plate with dual carry aluminum handles, outlet gauge assembly, air controls, and needle type release valve back to inlet.

**PRIMARY APPLICATION:**
Hydrostatic testing using water hose inlet.

**APPROXIMATE DIMENSIONS:**
30”W x 12”D x 12”H

**TYPE HIHPT1**

**DESCRIPTION:**
Any 3L, 5L, or 7L series pump mounted on a 2 or 5 gallon stainless steel tank with dual carry handles, outlet gauge assembly, air controls and needle type release valve back to tank.

**PRIMARY APPLICATION:**
Power unit for hydraulic systems. Petroleum base or phosphate ester fluids.

**APPROXIMATE DIMENSIONS:**
10”W x 10”D x 15”H

**TYPE HIHPT2**

**DESCRIPTION:**
Any 3L series pump, mounted submerged inside stainless steel 2 or 5 gallon tank with outlet gauge assembly, air controls and needle type release valve back to tank.

**PRIMARY APPLICATION:**
Power unit for high pressure hydraulic tools. Petroleum base fluid only.

**APPROXIMATE DIMENSIONS:**
13”W x 10”D x 12”H

**TYPE HIHPT3**

**DESCRIPTION:**
Any 5L or 7L series pump mounted alongside a 2 or 5 gallon stainless steel tank enclosed in a tubular steel frame with expanded metal gauge face protection. Includes outlet gauge assembly, air controls and needle type release valve back to tank. Also available without tank for water hose inlet similar to type HIHPB.

**PRIMARY APPLICATION:**
Power unit for high pressure and rough handling, water, petroleum base, or phosphate ester fluids.

**APPROXIMATE DIMENSIONS:**
22”W x 16”D x 18”H

**TYPE HIHPT4**

**DESCRIPTION:**
Any 5L, or 7L series pump mounted on top a 2 or 5 gallon stainless steel tank enclosed in a two-wheel cart with valves and gauges panel mounted. Includes outlet gauge, air controls, chart recorder (optional), needle type on/off valves and release valves back to tank.

**PRIMARY APPLICATION:**
Power unit for high pressure and rough handling, water, petroleum base, or phosphate ester fluids.

**APPROXIMATE DIMENSIONS:**
33”W x 17”D x 20”H

**TYPE HIHPT5**

**DESCRIPTION:**
Any 5L, or 7L series pump mounted on top a 2 or 5 gallon stainless steel tank enclosed in a two-wheel cart with valves and gauges panel mounted. Includes outlet gauge, air controls and needle type on/off valve and release valve back to tank.

**PRIMARY APPLICATION:**
Mobile test cart for hydrostatic testing, valve actuation, crimping, post preloading and hydraulic systems.

**APPROXIMATE DIMENSIONS:**
25”W x 20”D x 55”H

**TYPE HIHPT6**

**DESCRIPTION:**
Any 3L, 5L, or 7L series pump mounted in a fully enclosed cabinet on wheels with valves and gauges panel mounted. Includes push handle, doors for ease of maintenance, air controls, drive and hydraulic gauges, on/off valve, release valve, emergency push button, optional selector valve and stainless steel tank.

**PRIMARY APPLICATION:**
Portable power unit for hydrostatic testing, valve actuation, crimping, post preloading and hydraulic systems.

**APPROXIMATE DIMENSIONS:**
32”W x 26”D x 48”H

**TYPE HIHPT7**

**DESCRIPTION:**
Any 3L series pump mounted on a 2-gallon plastic tank with carry handle and hydraulic hose support. Includes air controls, hydraulic gauge, and needle type release valve back to tank.

**PRIMARY APPLICATION:**
Power unit for hydrostatic testing and hydraulic systems.

**APPROXIMATE DIMENSIONS:**
16”W x 14”D x 17”H
**Model Number Construction:**

<table>
<thead>
<tr>
<th>TYPE</th>
<th>PUMP</th>
<th>OUTLET GAUGE WITH RETURN VALVE</th>
<th>TANK</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Select:**
- HIHPB
- HIHPT1
- HIHPT2
- HIHPT3
- HIHPT4
- HIHPT5
- HIHPT6
- HIHPT7

- Use Catalog LP500 to select a model (Note HIHPT2 and HIHPT7 is limited to 3L series)
- Specify any modification from Catalog LP500
- Specify stainless steel frame for type HIHPBs, HIHPT3S and HIHPT4S

**STANDARDS**

<table>
<thead>
<tr>
<th>Select Code</th>
<th>Range PSI</th>
<th>Dial Size by Type of Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HIHP-B,-T1,-T2 HIHP-T3</td>
</tr>
<tr>
<td>1K</td>
<td>0-1000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>2K</td>
<td>0-2000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>3K</td>
<td>0-3000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>4K</td>
<td>0-4000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>5K</td>
<td>0-5000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>6K</td>
<td>0-6000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>10K</td>
<td>0-10,000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>15K</td>
<td>0-15,000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>20K</td>
<td>0-20,000</td>
<td>2 1/2” 4”</td>
</tr>
<tr>
<td>35K</td>
<td>0-35,000</td>
<td>4” 4”</td>
</tr>
<tr>
<td>60K</td>
<td>0-60,000</td>
<td>6” 6”</td>
</tr>
<tr>
<td>P</td>
<td></td>
<td>Port only-suitable for customer to install a non-standard gauge</td>
</tr>
</tbody>
</table>

**Notes:**
1. All gauge cases stainless steel and glycerin filled.
   6” is solid front, blow out back.
2. Accuracy:
   - 2 1/2” dial: ± 1% full scale.
   - 4”, 6” dials: ± 1/2% full scale.
   Units: PSI, single scale.
3. All outlet piping stainless steel and sized to fit selected pump.
4. Air Control Inlets:
   - 3L Series - 1/4” NPT
   - 5L Series - 1/2” NPT
   - 7L Series - 3/4” NPT

**EXAMPLE**

- HIHPT3S
- 5L-SS-205
- 35K
- 2G

This is a
- Stainless Steel Tubular Frame System Package
- With Model 5L-SS-205 pump
- 1/2 NPT Air Drive Inlet
- 1/4 Superpressure Liquid Outlet
- 0-35,000 PSI, 4 Outlet Gauge
- 2 Gallon Tank
## Gas Booster Packages

### TYPE HIHPG1
**DESCRIPTION:**
Booster mounted on kick stand equipped, single gas cylinder hand truck. Enables operation upright or at 45% angle for added stability. Options provide for drive power from either the cylinder gas or shop air, or both choices.

**PRIMARY APPLICATION:**
Accumulator N2 servicing, aircraft ground support.

**APPROXIMATE DIMENSIONS:**
39"W x 13"D x 46"H

### TYPE HIHPG2
**DESCRIPTION:**
Booster mounted in an aluminum tubular frame with controls for air drive up to 150 PSI. PCV valves sense both gas inlet and outlet pressures to automatically stop the booster when either minimum inlet or maximum outlet pressures are reached enabling unattended operation. Panel mounted gauges read gas inlet and outlet. The drive air gauge is behind the panel for reference.

**PRIMARY APPLICATION:**
High Pressure gas testing, Gas injection and Gas transfer to portable bottles.

**APPROXIMATE DIMENSIONS:**
33"W x 17"D x 18"H

### TYPE HIHPG3
**DESCRIPTION:**
Booster supports all piping, gauges and controls, so that booster’s standard foot brackets provide the mounting. Drive controls enable powering the unit from either the inlet gas or shop air. PCV valve and relief valve provide adjustable, automatic outlet pressure control. Note: Outlet gauge not included.

**PRIMARY APPLICATION:**
Fire Dept., hasmat, dive shop breathing gases.

**APPROXIMATE DIMENSIONS:**
34"W x 14"D x 14"H

### TYPE HIHPG4
**DESCRIPTION:**
Booster mounted on a watertight protective case (control panel is optional). Drive controls enable powering the unit from inlet gas or shop air, or both choices. PCV valve (s) and relief valve provide adjustable, automatic outlet pressure control.

**PRIMARY APPLICATION:**
Life support, hasmat, general aviation, dive shop, military

**APPROXIMATE DIMENSIONS:**
22"W x 13"D x 8"H (3G Series)
25"W x 22"D x 12"H (5G-SS Series)
33"W x 21"D x 12"H (5G-DD, -SD, -DS, -TS Series)

### TYPE HIHPG5
**DESCRIPTION:**
Booster mounted in a tubular frame with carry handle. Includes drive controls that enable powering the unit from either the high pressure inlet gas or low pressure shop air, PCV valves that sense both gas inlet & outlet pressures to automatically stop the booster when either minimum inlet or maximum outlet pressures are reached, gas inlet & outlet gauges, and relief valve.

**PRIMARY APPLICATION:**
Accumulator N2 charging and high pressure gas testing

**APPROXIMATE DIMENSIONS:**
30"W x 12"D x 12"H

### TYPE HIHPG6
**DESCRIPTION:**
Booster mounted on a rigid skid with control panel. Includes drive controls that enable powering the unit from either the high pressure inlet gas or low pressure shop air, PCV valves that sense both gas inlet & outlet pressures to automatically stop the booster when either minimum inlet or maximum outlet pressures are reached, gas inlet & outlet gauges, relief valve, outlet on/off valve and vent valve.

**PRIMARY APPLICATION:**
High pressure gas testing, gas injection and gas transfer.

**APPROXIMATE DIMENSIONS:**
34"W x 14"D x 14"H

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* CO₂ gas inlet must be held to 88°F or higher to prevent a phase change to liquid in the booster.

* Output range: 1000 - 10,000 PSI
* Booster models: 3G; 5G-SS-14, -30, -50, -75
* Gases: nitrogen, helium, argon, oxygen, CO₂

* Output range: 1000 - 25,000 PSI
* Booster Models: Select from catalog GB500
* Gases: Most cylinder gases used in industry & life support applications.
## Model Number Construction:

<table>
<thead>
<tr>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
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<tbody>
<tr>
<td>TYPE</td>
<td>BOOSTER</td>
<td>DRIVE CONTROLS</td>
<td>INLET GAUGE</td>
<td>OUTLET GAUGE</td>
<td>INLET</td>
<td>OUTLET</td>
</tr>
</tbody>
</table>

Select:
- HIHPG1
- HIHPG2
- HIHPG3
- HIHPG4
- HIHPG5
- HIHPG6

- Use Catalog GB500 to select a model. (Note limitations with types HIHP-G1, -G3.)
- Specify any modification (O, V, or X)(4)
- Specify stainless steel frame for type HIHPG2S and HIHPG5S

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### Example

**HIHPG2S** - **5G–TS–14/30** - **SAD** - **3K** - **3K** - **A200** - **B2500**

- Stainless Steel Tubular Frame System Package
- With Model 5G–TS–14/30 Booster
- With Shop Air for Drive (GFD not a standard option)
- With 3000 PSI Inlet and Outlet Gauges
- With PCV Valve Settings of 200 PSI Inlet, 2500 PSI Outlet

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### Standards

<table>
<thead>
<tr>
<th>Select Code</th>
<th>Range PSI</th>
<th>Dial Size by Type of Unit</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>HIHP-G1, -G6</td>
</tr>
<tr>
<td>1K</td>
<td>0-1000</td>
<td>2 1/2&quot;</td>
</tr>
<tr>
<td>2K</td>
<td>0-2000</td>
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<td>2 1/2&quot;</td>
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<td>Not avail.</td>
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<tr>
<td>P</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. All gauges stainless steel with non-filled cases. 6” is solid front, blow out back.
2. Accuracy:
   - 2 1/2” dial: ± 1% full scale.
   - 4” dial: ± 1/2% full scale.
   - Units: PSI, single scale.
3. Outlet Gauge on type HIHPG3 is not a standard option.
4. If oxygen (–O) mod. is specified all other components in O₂ contact will be compatible.

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Specifying:
- Valve A Inlet PSI
- Valve B Outlet PSI
**MODEL HIS-10001**

(Also referenced as HIS-S5A-DS-2)

**DESCRIPTION:**
The air pressure amplifier unit includes model 5A-DS-2 and it is a complete pneumatic system designed to provide double the available plant air pressure and momentary high flow. Tank is 15-gallon, 200-psi ASME code. The regulator on the tank outlet is provided to control the output pressure and flow. Tank relief valve is set at 200-psi.

**PRIMARY APPLICATION:**
Assist air powered tools and machines in large plants with marginal central air pressure systems. Ideal to boost plant air pressure in tools for operation of automatic clamps, cylinders and other equipment.

**APPROXIMATE DIMENSIONS:**
44" W x 32" D x 17" H

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**MODEL HIHP-10044 or HIHP-10045**

(Also referenced as HIHP-S3A-SS-2.5 OR -4)

**DESCRIPTION:**
This compact air pressure amplifier unit includes model 3A-SS-2.5 or 3A-SS-4 and it is a complete pneumatic system designed to provide 2.5x or 4x the available plant air pressure. Tank is approximately 1-gallon, D.O.T. code steel bottle. The inlet drive air regulator is provided to control the output pressure up to 675-psi.

**PRIMARY APPLICATION:**
Assist smaller air powered tools and machines with marginal shop air pressure. Ideal for light duty, miscellaneous testing, and boosting into tight spaces.

**APPROXIMATE DIMENSIONS:**
11" W x 11" D x 17" H

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**MODEL HIS-10002**

(Also referenced as HIS-S5A-DS-5)

**DESCRIPTION:**
This air pressure amplifier unit includes model 5A-DS-5 and it is a complete pneumatic system designed to provide 5x the available plant air pressure and momentary high low. Tank is 5-gallon, 600-psi ASME code. The regulator on the tank outlet is provided to control the output pressure and flow. Tank relief valve is set at 600-psi.

**PRIMARY APPLICATION:**
Pressure testing with plant compressed air up to 5x air in (up to 500-psi) with moderate flow or special devices. Ideal to boost plant air pressure in tools for operation of automatic clamps cylinders and other equipment.

**APPROXIMATE DIMENSIONS:**
17" W x 15" D x 23" H

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**MODEL HIS-10003**

Dual Air Amplifier System
(Also referenced as HIS-S5A-DS-2/5)

**DESCRIPTION:**
This dual air amplifier system provides increased efficiency, flow and pressure. It consists of a model 5A-DS-2X piped into model 5A-DS-5X for a 2-stage configuration. Tank is 15-gallon, 400-psi ASME code. Tank pressure is controlled with a pilot cutoff valve (PVC), and is rated for a maximum pressure of 390-psi. This system is assembled, completely tested for maximum flow and pressure, and mounted on a rigid fork-lift-able steel frame with control panel.

**PRIMARY APPLICATION:**
Pressure testing, purging, clamping with plant compressed air up 390-psi with high flow.

**APPROXIMATE DIMENSIONS:**
30" W x 28" D x 43" H
Multiple natural gas booster system with high flow capacity for recovering unclaimed gas and injecting back into a higher pressure transmission line.

Tube & hose test stand rated to 30,000 PSI fully automated.

Electric driven gas booster package rated up to 10,000-psi suitable for transfer and pressurization of Argon, Breathing Air, Carbon Dioxide, Helium, Hydrogen, Methane, Natural Gas, Nitrogen and Oxygen.

PAINTBALL propellant bottle filling to 6,000 PSI using 5G-DS and 5G-TS series boosters.

Corporate Headquarters and Offices, Sales, Administration, Fabrication and Assembly
9201 Independence Ave.
Chatsworth, CA 91311

Engineering, Assembly and Test Facility
20961 Knapp Ave.
Chatsworth, CA 91311

Machine Shop Facility
9000 Mason Ave.
Chatsworth, CA 91311

Overhaul Facility
70 Industrial Park Drive
Forsyth, GA 31029

HYDRAULICS INTERNATIONAL, INC.
OVERVIEW
Founded in 1976, HII has evolved into a fully integrated manufacturer of hydraulic and pneumatic test equipment. HII maintains three modern facilities in Chatsworth, California and one in Forsyth, Georgia, totaling 690,000 square feet.

Along with air driven system packages, HII offers pumps, air amplifiers, gas boosters, flowmeters and high pressure components, and electric driven gas boosters. HII products are designed and manufactured in the USA.

High pressure hydraulic system with accumulators for 200 Ton Tensioning Systems

Mobile hydraulic or skydrol cart on casters with control panel for pressure testing valves, motors and various aircraft components.

Paintball propellant bottle filling to 6,000 PSI using 5G-DS and 5G-TS series boosters.

Electric driven gas booster package rated up to 10,000-psi suitable for transfer and pressurization of Argon, Breathing Air, Carbon Dioxide, Helium, Hydrogen, Methane, Natural Gas, Nitrogen and Oxygen.

Tube & hose test stand rated to 30,000 PSI fully automated.

(818) 407-3400
<table>
<thead>
<tr>
<th>Catalogs</th>
<th>Number</th>
<th>Includes</th>
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<tbody>
<tr>
<td>Liquid Pumps</td>
<td>LP500</td>
<td>Principle of operation, benefits. Applications, installation detail, chart of rated pressures, port sizes and weights, performance curves, standard modifications. 12 Pages</td>
</tr>
<tr>
<td>Gas Boosters</td>
<td>GB500</td>
<td>Principle of operation, benefits. Applications, typical schematics, selection tables, performance curves and modifications. 16 Pages</td>
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<tr>
<td>Gas Boosters Electric Driven</td>
<td>EGB100</td>
<td>Pressure ratings, type of controls, voltages, flow rate, weight, dimensions and key features 1 Page</td>
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<tr>
<td>Air Amplifiers</td>
<td>AA500</td>
<td>Principle of operation, replacing dedicated air compressor in large plants, installation, controls, schematics and packaged systems. 4 Pages</td>
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<tr>
<td>Flowmeters</td>
<td>FM-100</td>
<td>Principle of operation, applications, design features, flow ranges and sizing guides with calculations. How to order. 58 Pages</td>
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### Bulletins

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<thead>
<tr>
<th>Catalogs</th>
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<th>Includes</th>
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<tbody>
<tr>
<td>Liquid Pumps</td>
<td>LP501</td>
<td>Basic pressure ratings, displacement per cycle, weights, dimensions and key features. 2 Pages</td>
</tr>
<tr>
<td>Gas Boosters</td>
<td>GB501</td>
<td>Basic pressure ratings, displacement per cycle, weights, dimensions and key features. 2 Pages</td>
</tr>
<tr>
<td>Product Line Overview</td>
<td>PBVF-100</td>
<td>Quick reference to the overall capacities of HII’s liquid pumps, gas boosters, air pressure amplifiers, high pressure accessories and flow meters. 4 Pages</td>
</tr>
<tr>
<td>High Pressure Valves</td>
<td>V-100</td>
<td>Relief, pilot cutoff, unloading, check, plus gas receivers and needle valves. 2 Pages</td>
</tr>
<tr>
<td>Breathing Air Scuba Diving</td>
<td>GB-102</td>
<td>Breathing air booster unit for dive store SCUBA tank fill stations to 4500 PSI. 1 Page</td>
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