



**Algas-SDI**  
Origins in 1932



ISO 9001  
Certified



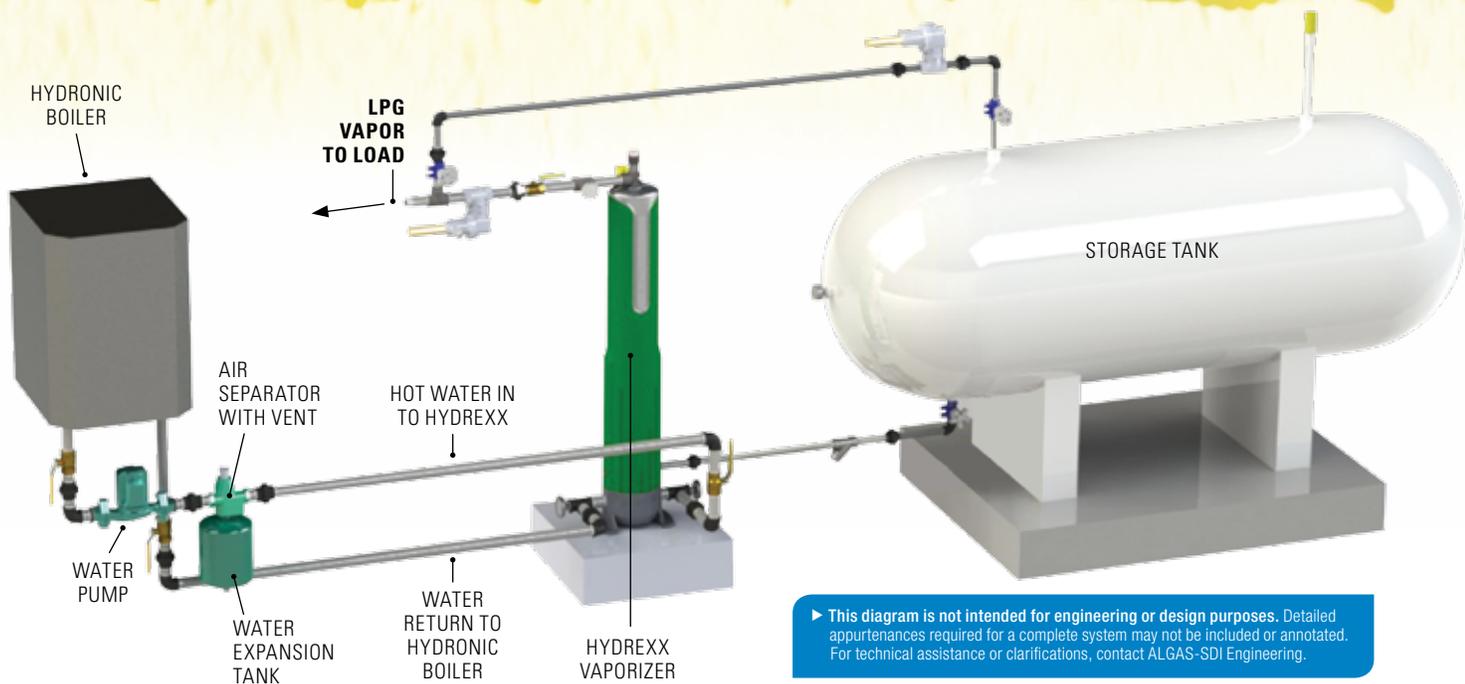
# Hydrex<sup>TM</sup>

Indirect Heated Vaporizer

Hot Water / Steam

[algas-sdi.com](http://algas-sdi.com)

# Indirect Heated Vaporizer



## Key Points

→ Safest design

→ Minimal power consumption

→ Corrosion-free

→ Simple design!

→ Compact footprint

→ Liqui-SAFE™ Valve

→ Propane, butane or LPG

→ HXB Models available\*

**Hydrexx™** fills the critical application niche where 3-phase electrical power is lacking, or where an open flame Direct Fired vaporizer is inappropriate.

## The Heating Process

**Hydrexx** is a compact indirect heated vaporizer. The heat source can be excess hot water from a process or from a dedicated hydronic boiler (remote or packaged from the factory). **Hydrexx** can also accept saturated process steam as the heating medium.

**Hydrexx** is corrosion resistant! The heating medium (e.g. hot water or steam) flows inside stainless steel tubes encased by the aluminum shell. The process fluid (e.g. propane, butane or LPG) is admitted on the shell side and extracts the heat from the stainless steel tubes. Our proprietary **Liqui-SAFE™** valve prevents liquid LPG from passing downstream of the vaporizer. And in the event of a 'high liquid level' occurrence, the Liqui-SAFE™ valve provides visual indication of activation.

\* HXB Models include a fully packaged hydronic boiler. Note that code compliance can vary by country and jurisdiction.

## Two Configurations Available

### HX Series vs. HXB Series

The “free-standing” **Hydrex HX Series** is limited in supply scope to the heat exchanger, Liqui-Safe™ Valve and relief valve. All other appurtenances must be sourced locally or requested as options from Algas-SDI. A generalized installation is shown in the diagram to the left.

The **HXB Series** is a base-plate mounted package with an integral dedicated hydronic boiler installed at the factory. The HXB Series is pre-piped, pre-wired and ready for installation. The LPG vapor fired hydronic boiler provided with the HXB Series heats the water to the desired preset temperature. The water is contained within a closed loop system and circulated by an integral pump. Hydronic boilers are efficient, economical and a proven solution for industrial applications worldwide.



*[ HXB Series with CSA Approved Boiler Package ]*

*[ HX Series ]*



#### IDEALLY SUITED FOR:



Schools/  
Universities



Hospitals  
& Clinics



Hotels  
& Resorts



Office  
Buildings



Small  
Factories



Mines  
& Excavation

Start up: 1–5 minutes depending  
on heating medium availability

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# Hydrex<sup>™</sup> Specifications

**Vaporization Type:** Indirect Heated Vaporizer *Circulating Hot Water | Saturated Steam*

## HXB PACKAGED CONFIGURATION

Electrical Data:	HX160	HX320	HX500	HXB320	HXB500	HXB640	HXB1000
Voltages	← NA →			← 100 – 240 →			
Ph	← NA →			← 1 →			
Amps	← NA →			← 6 to 4 →			
Hz	← NA →			← 50 / 60 →			
<b>Electrical Class:</b>	← NA →			← NEC ANSI / NFPA 70 →			
<b>Vaporizer Approvals:</b>	CE, PED Marked, designed per ASME				CSA Approved Boiler		
<sup>1</sup> Vaporization Capacity:	HX160	HX320	HX500	HXB320	HXB500	HXB640	HXB1000
Kg/h	160	320	500	320	500	640	1,000
US Gal/h	80	160	250	160	250	320	500
MMBTU/h	7.2	14.5	22.9	14.5	22.9	28.8	45.2
<b>Heat Exchanger:</b>	HX160 – HX500			HXB320 – HXB500 <sup>3</sup>			
<sup>2</sup> Design Pressure	250 PSIG 17.2 barg			250 PSIG 17.2 barg			
Relief Valve Set Point	250 PSIG 17.2 barg			250 PSIG 17.2 barg			
Hydrostatic Pressure	375 PSIG 25.0 barg			375 PSIG 25.0 barg			
<b>Unit Dimensions:</b>	9" L x 60" H x 12" W 229 mm L x 1,524 mm H x 305 mm W			68" L x 63.5" H x 36" W 1,727 mm L x 1,613 mm H x 914 mm W			
<b>Unit Weight:</b>	96 lbs 43.6 kg			600 lbs 272 kg			
<b>Shipping Dimensions:</b>	19" L x 65" H x 24" W 483 mm L x 1,524 mm H x 610 mm W			80" L x 75" H x 48" W 2,032 mm L x 1,905 mm H x 1,219 mm W			
<b>Shipping Weight:</b>	134 lbs 61 kg			650 lbs 295 kg			

<sup>1</sup> Capacity shown is nominal. Actual is impacted by LPG composition, glycol percentage, water temperature, flow and steam conditions. Higher glycol percentage may require a larger circulation pump due to increased viscosity.

<sup>2</sup> Max Allowable Working Pressure or MAWP

<sup>3</sup> For weights and dimensions of HXB640 and HXB1000, please contact Algas-SDI for datasheet.

Algas-SDI developed its first vaporizer in 1932. Over eighty years later, we still lead the market in quality, innovation and **commitment to our purpose**. Our products allow businesses located off the gas grid or under curtailment, to operate. We eliminate downtime ensuring **workers can work and goods and services can flow to market**.



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