



Algas-SDI
Origins in 1932

TUV NORD
ISO 9001
Certified

Hydrex[™]

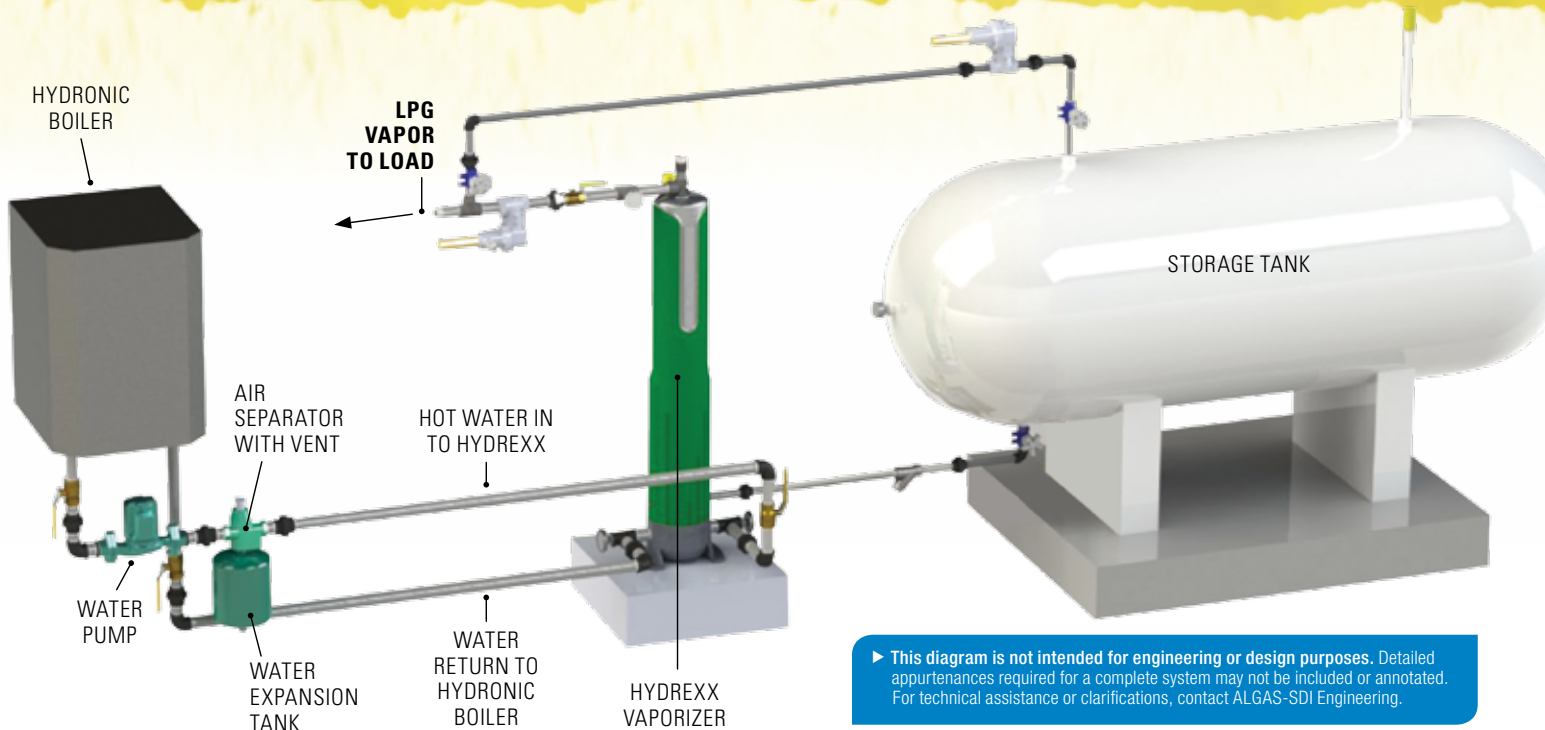
Indirect Heated Vaporizer

Hot Water / Steam



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Indirect Heated Vaporizer



Key Points

→ Safest design

→ Minimal power consumption

→ Corrosion-free

→ Simple design!

→ Compact footprint

→ Liqui-SAFE™ Valve

→ Propane, butane or LPG

Hydrex™ 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

Hydrex 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). **Hydrex** can also accept saturated process steam as the heating medium.

Hydrex 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.

HX 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.



IDEALLY SUITED FOR:



Schools/
Universities



Hospitals
& Clinics



Hotels
& Resorts



Office
Buildings



Small
Factories



Mines &
Excavation

START UP:

1 to 5 minutes depending on heating medium availability

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Hydrex[™] Specifications

Vaporization Type:	Indirect Heated Vaporizer	Circulating Hot Water/ Saturated Steam	
Electrical Data:	HX160	HX320	HX500
Voltages	←	NA	→
Ph	←	NA	→
Amps	←	NA	→
Hz	←	NA	→
Electrical Class:	←	NA	→
Vaporizer Approvals:	CE, PED Marked, designed per ASME CSA Approved Boiler		
¹Vaporization Capacity:	HX160	HX320	HX500
Kg/h	160	320	500
US Gal/h	80	160	250
MMBTU/h	7.2	14.5	22.9
Heat Exchanger:	HX160 – HX500		
² Design Pressure	250 PSIG 17.2 barg		
Relief Valve Set Point	250 PSIG 17.2 barg		
Hydrostatic Pressure	375 PSIG 25.0 barg		
Unit Dimensions:	9" L x 60" H x 12" W 229 mm L x 1,524 mm H x 305 mm W		
Unit Weight:	96 lbs 43.6 kg		
Shipping Dimensions:	19" L x 65" H x 24" W 483 mm L x 1,524 mm H x 610 mm W		
Shipping Weight:	134 lbs 61 kg		



- ¹ Vaporization 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.
- ² Max Allowable Working Pressure or MAWP

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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