

/ Atmospheric Heat Vaporization Systems for LNG Import Terminals /



SPX

COOLING TECHNOLOGIES

Introducing dramatically more efficient regasification.
Plus an innovative source for pure water.





FEWER EMISSIONS

Compared to traditional combustion-only systems, Atmospheric Heat Vaporization Systems can reduce CO₂ and NO_x emissions by as much as 90%.

LESS CONSUMPTION OF NATURAL GAS

Any major oil company or natural gas marketer planning or operating an LNG terminal can expect to save 20% – 90% of the energy required by traditional methods of heating.

GENERATE PURE WATER

The heat transfer process condenses water from the atmosphere, delivering up to 4 million liters of water a day to the local community.



Atmospheric heating: the basic elements.

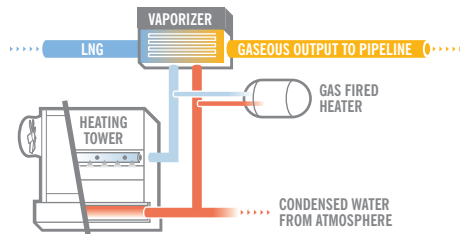
Unlike traditional gas-fired only methods, Atmospheric Heat Vaporization Systems utilize heat from the atmosphere – extracted via a direct or indirect heat exchanger, resulting in significantly less fuel consumption.



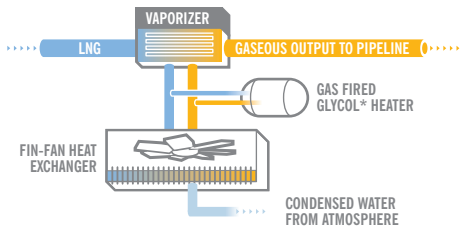
INNOVATIVE CONFIGURATIONS

SPX Cooling Technologies' unique direct contact heating tower and indirect contact fin-fan heat exchanger designs allow for maximum atmospheric heat transfer while optimizing footprint and electrical power consumption.

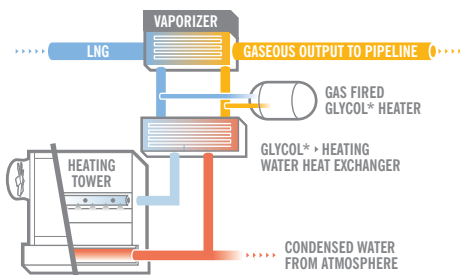
OPEN RACK VAPORIZATION WITH DIRECT CONTACT HEATING TOWER



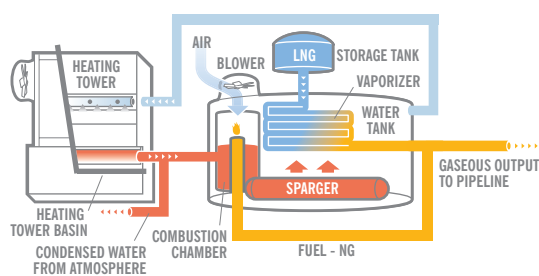
SINGLE LOOP WITH INDIRECT CONTACT HEAT EXCHANGER



TWO LOOP DIRECT CONTACT HEATING TOWER SYSTEM



SUBMERGED COMBUSTION VAPORIZATION WITH HEATING TOWER



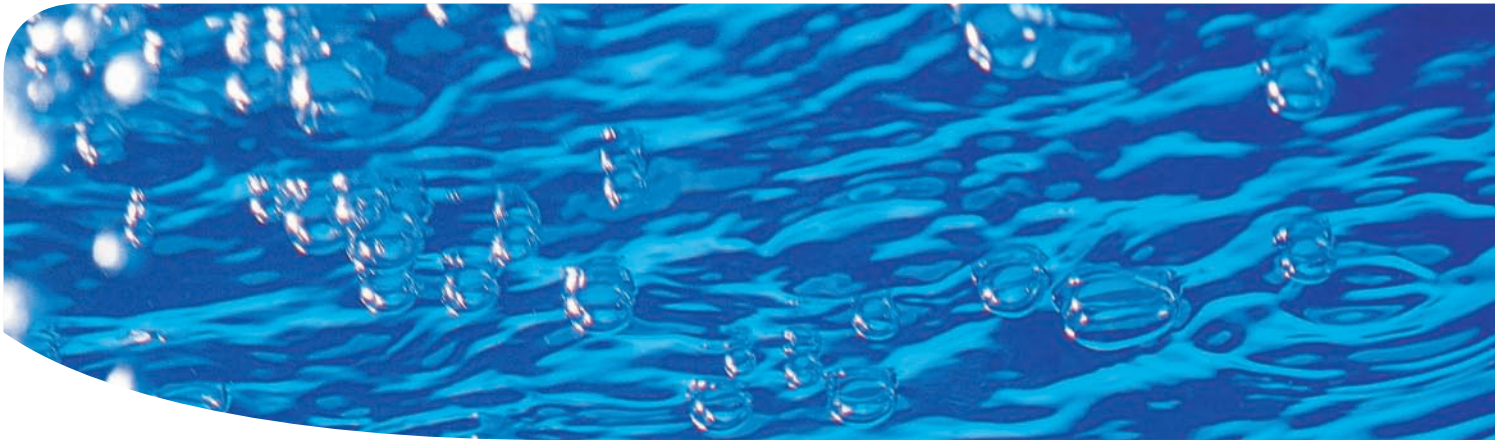
POWERFUL SAVINGS

While results vary based on climate, tower and system configuration, and gas and power values, Atmospheric Heat Vaporization Systems reduce natural gas consumption while dramatically increasing cost savings.

LOCATION	% GAS SAVINGS**
Gulf Coast U.S.	74
Southeast U.S.	88
Italy	67
Western UK	40
Eastern Canada	29

**Estimated savings based on typical annual weather conditions using a two-loop system.

*Or other anti-freeze liquid.



The optimal solution. Yours.

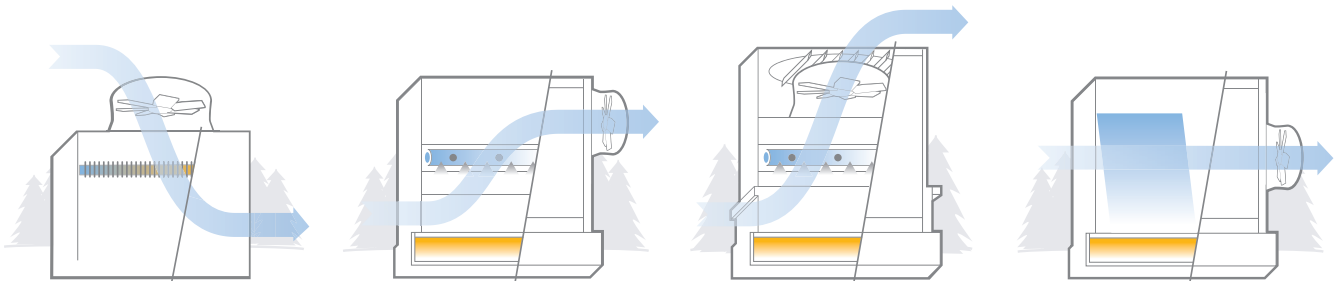
SPX Cooling Technologies offers more ways to deliver the greatest long-term value.

LNG VAPORIZATION SYSTEM AUDITS

SPX Cooling Technologies conducts sizing, selection, plant modeling and environmental analyses to custom design and build an Atmospheric Heat Vaporization System that optimizes your operations.

DIRECT CONTACT OR INDIRECT CONTACT TOWER DESIGNS FOR MOST TERMINAL SITES

Whether your requirements focus on cost, wind conditions or future expandability, SPX Cooling Technologies offers patented tower designs to satisfy the unique needs of your import terminal.




INDIRECT CONTACT DESIGN

DIRECT CONTACT
VERTICAL FAN
COUNTERFLOW DESIGN

DIRECT CONTACT
WIND ADAPTED
COUNTERFLOW DESIGN

DIRECT CONTACT
VERTICAL FAN
CROSSFLOW DESIGN



Brought to you by a leader in
heat transfer technology.

As a leading provider of cooling solutions to the industrial and power industries, SPX Cooling Technologies is uniquely qualified to deliver atmospheric heat transfer at your LNG terminal.

Given our innovative technologies and performance-enhancing services, it's no wonder our customers are getting the most out of their LNG import terminals, while consuming the least of our natural resources.

Learn more about Atmospheric Heat Vaporization Systems.
Call 60 3 7665 1018 or visit spxcooling.com today.



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In the interest of technological progress,
all products are subject to design and/or
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