

SPX Cooling Technologies has developed a new family of vaporization systems that utilize heat from the atmosphere offering unique capabilities.



SPX has developed heating tower technology that allows LNG (Liquefied Natural Gas) vaporization plant operators to reduce their natural gas consumption. This is accomplished by utilizing atmospheric heat, extracted via a heating tower, to boil the LNG back into a gaseous state.

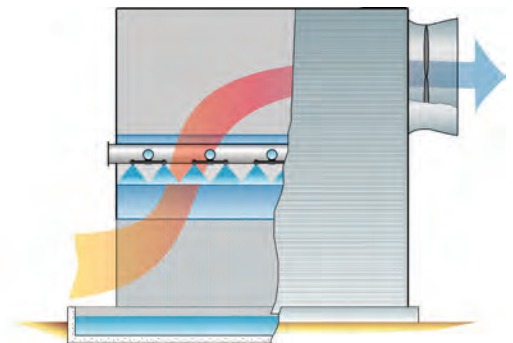
With the growing demand and increasing price for natural gas in the US, Europe, and Asia, the transport of natural gas via ocean tankers is increasing in demand. This process involves cooling

the natural gas to -260°F , so that it is liquefied (LNG) and loaded efficiently and transported via tanker. At the receiving end, the LNG must then be reheated back to a gaseous state. The amount of heat required to vaporize the LNG in a typical 1 billion cubic feet per day (BCF/d) plant is approximately 850 MMBTU per hour. In most cases, this heat is delivered through burning natural gas in high efficiency vaporizers, consuming between 1.5-2.5% of the terminal's total throughput.

A new family of vaporization systems have been developed that utilize heat from

the atmosphere working in parallel with gas combustion units. In these applications, the amount of natural gas required has been reduced by 60-90% on an annual basis. SPX's unique, patent-pending heating tower designs offer unique capabilities that allow maximum atmospheric heat

transfer while optimizing footprint and electrical power consumption. Coupled with a proprietary sizing, selection, plant modeling and optimization methodology, SPX is uniquely qualified to design and build the optimum solution that delivers the greatest long term value.



Marley XF400 Series – Horizontal Discharge



profiles

Typical Heating Tower

To handle the heating load requirement of one billion cubic feet per day (BCF/d) for a terminal in the US Gulf area.

- A 12 fan cell tower (model XF499) with 10-meter fans (250 hp motors) delivers 90% of the annual heat load.
- Each cell measures 54'-0 x 54'-0.
- Each cell delivers enough heat to vaporize 83.3 MCF per day of natural gas.

All of the above estimations are based on typical US Gulf area annual weather conditions.

Key Features

- Vaporization system utilizes heat from the atmosphere
- Natural gas consumption reduced 60-90% annually
- Patent-pending designs offer unique capabilities allowing maximum atmospheric heat transfer
- Optimizes footprint and electrical power consumption
- SPX delivers the greatest long term value

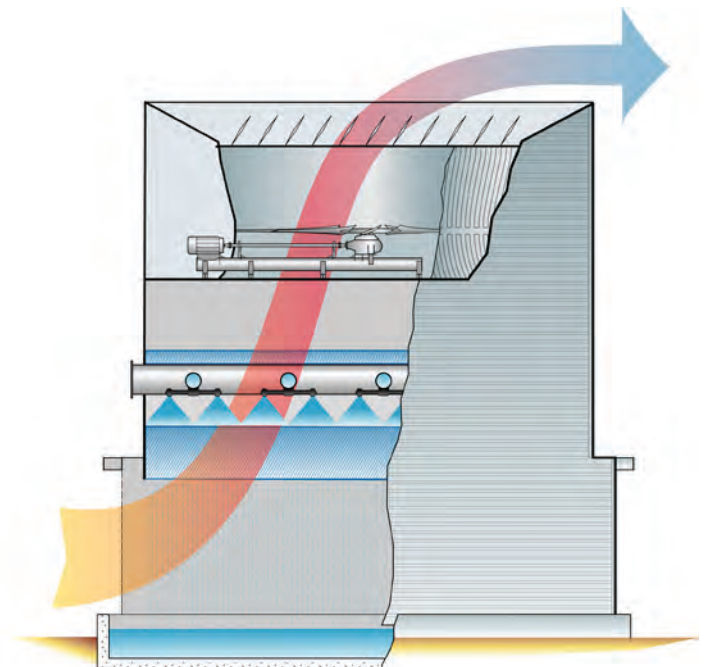
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Marley VX400 Series – Wind Adapted Variable Discharge