

# NIAGARA BLOWER SOLUTIONS

## What is WSAC®?

The Wet Surface Air Cooler is a closed-loop, evaporative cooling system.

Wet Surface Air Coolers are optimized for industrial applications where rugged design/fabrication and cost effective efficient closed-loop cooling/condensing are required.

## Applications:

Liquid Cooling  
Gas Cooling  
Vapor Condensing

## Industries:

Refining  
Power  
Wastewater  
Pulp & Paper  
Metals  
Mining  
Food/Beverage

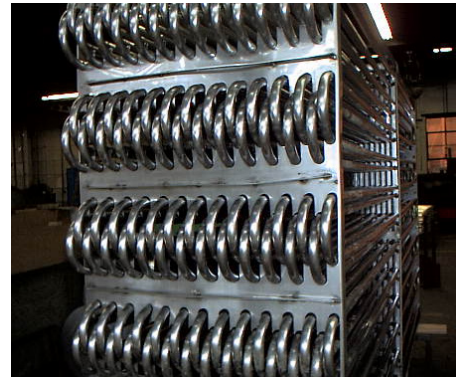
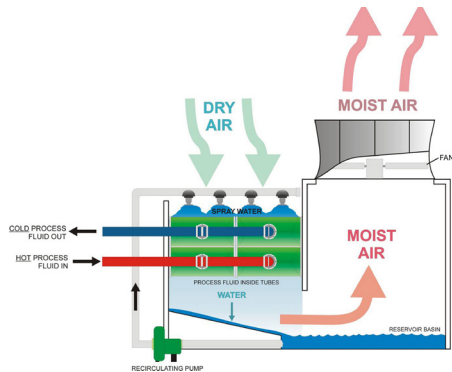
## CASE STUDY

# HIGH PRESSURE COMPRESSED GAS COOLER FOR MIDSTREAM PROCESSOR

Customer: **NATURAL GAS PROCESSOR**  
Installation Location: **SOUTHWEST TEXAS**  
Application: **COMPRESSED NATURAL GAS COOLING**

**THE CHALLENGE** A midstream gas processor needed to cool highly compressed natural gas before pipeline transmission to downstream facilities. The gas needed to be cooled to the lowest possible temperature in a very warm, arid climate.

**THE SOLUTION** Niagara Blower engineered, designed, and manufactured a Wet Surface Air Cooler to cool the natural gas stream effectively and efficiently to 95°F even in the most extreme outdoor conditions. Also, the WSAC system required less compressor horsepower, reducing cost and lowering plant carbon footprint.



## WSAC® ADVANTAGES

- Ability to achieve lowest possible gas temperature in an arid desert environment
- Pressure vessel designed for 1,200 psig
- ASME Sect. VIII, Div. 1 U-Stamp
- HDGAF steel tube bundle
- Lower compressor horsepower
- All stainless steel structure for corrosion & erosion resistance
- Class 1, Div. 2, Group D Explosion Proof
- Modular design for ease of installation
- Thermal capacity controlled by VFD



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