



**Niagara Blower Heat Transfer Solutions**  
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## NIAGARA SUPPLIES 3 SUPERCRITICAL CO<sub>2</sub> COOLERS FOR WELL INJECTION

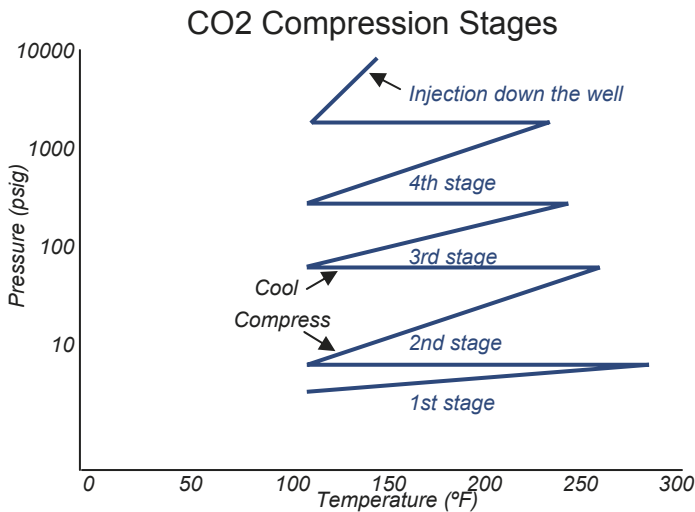
CUSTOMER: OIL & NATURAL GAS PRODUCER

INSTALLATION LOCATION: CENTRAL U.S.

APPLICATION: COMPRESSED GAS COOLING

**PROBLEM:** An independent oil and natural gas producer needed three supercritical aftercoolers for cooling high pressure CO<sub>2</sub> from 110 to 95°F prior to injection.

**SOLUTION:** Niagara designed, manufactured, and installed closed-loop, evaporative Wet Surface Air Coolers to meet process requirements. These units were designed using 304 stainless steel per ASME VIII Division I with 18 serpentine tube bundles and an access package including a fan deck, ladders, and railing. The lower outlet temperature of these coolers reduced compressor horsepower and saved capital and operating costs.



### ADVANTAGES

- Lower capital cost than an air cooler
- Smaller plot space requirement
- Lower outlet temperature
- Cools process efficiently
- Lower motor horsepower consumption, fewer motors / fans to maintain

### FEATURES

- Heavy duty 10 & 12 ga panel construction
- Nut & bolt construction, no self tapping screws
- Modular assembly
- Direct process heat rejection
- 900# ANSI flanges
- Low water consumption

FOR MORE INFORMATION ABOUT THIS AS WELL AS OTHER WSAC APPLICATIONS,  
PLEASE CONTACT THE NIAGARA FACTORY OFFICE IN BUFFALO, NY.