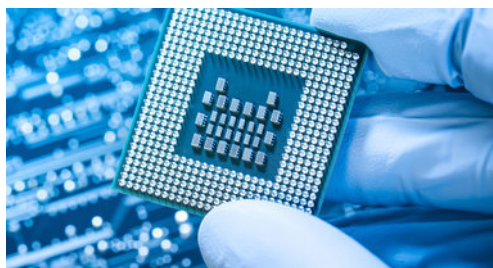


AIR LIQUIDE FLUID TEMPERATURE CONTROL

WITH NORTH SLOPE CHILLERS

NORTH SLOPE CHILLERS, A POWERBLANKET COMPANY, SOLVES EVERY KIND OF TEMPERATURE PROBLEM FROM SIMPLE TO VERY COMPLEX IN A VERY SHORT TURNAROUND TIME.



WHO NEEDED A SOLUTION?

The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 65,000 employees and serves more than 3.5 million customers and patients. Oxygen, nitrogen and hydrogen are essential small molecules for life, matter and energy. They embody Air Liquide's scientific territory and have been at the core of the company's activities since its creation in 1902.

The leader in molecule design, manufacturing and delivery, they contribute to the innovation in the electronics industry. They engineer innovative and cost-effective solutions and keep improving products and processes to move nanotechnology forward.

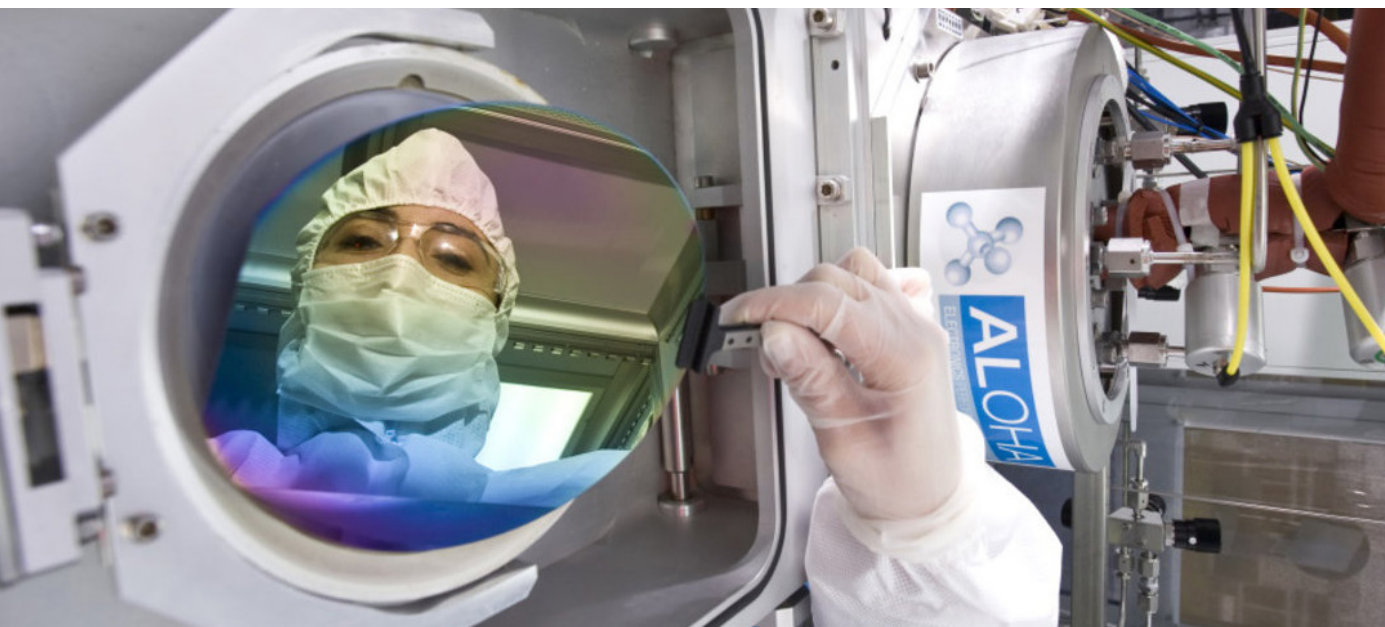


We needed to add heat to our dichlorosaline tanks and were surprised by how easily Fluxwrap made that happen. We now have a simple and safe solution that has significantly improved our daily output.

WHAT WAS THE PROBLEM?

Air Liquide moves dichlorosaline gas from 1 ton cylinders to smaller, portable containers for distribution. The major hurdle they faced came as the gas became too cold in winter and cold conditions, preventing the container from draining completely. Ideally, this gas needed to maintain a regular temperature of 120° F to flow correctly in the winter. This is also a hazardous gas: extremely flammable chemical (C1D2). Two issues needed to be addressed and required the expertise of North Slope Chillers custom engineers: maintain temperature to improve flow and create a solution safe for a highly flammable application. Cold weather can wreak havoc on gas cylinders. When the temperature drops, it's very difficult to maintain optimal pressure. This prevents the gas from vaporizing which in turn renders the gas cylinders unusable. Heat increases flow to fill more tanks, which in turn increases productivity.

NORTH SLOPE CHILLERS SPECIALIZES IN COMPLETE SOLUTIONS. WHILE COOLING IS OUR FORTE, FLUXWRAP OFFERS LIQUID TEMPERATURE CONTROL SOLUTIONS, BE IT HOT OR COLD.



THE NORTH SLOPE CHILLERS SOLUTION

Because of the hazardous location, Air Liquide did not want to use Powerblanket's standard electric blankets. North Slope Chillers developed a custom solution for liquid temp control using a boiler system to heat a water/glycol mixture. The heater was positioned safely away from the hazardous area and pumped heated mixture into our signature fluid control jacket, Fluxwrap.

LASTING BENEFITS

The custom solution is performing even better than expected. Because of the increased consistent heat, Air Liquide is nearly doubling their daily output. The colder it is outside, the lower the pressure will be in the tank; conversely, the higher the temperature, the higher the pressure. Air Liquide's gas volume is directly related to the temperature. North Slope Chillers' custom solution has optimized the system and improved operations.

NEED A FLUID TEMPERATURE CONTROL SOLUTION?

PHONE: 888.316.6324

EMAIL: INFO@NORTHSLOPECHILLERS.COM

3130 SOUTH 1030 WEST, SUITE 1

SALT LAKE CITY, UT 84119

WWW.NORTHSLOPECHILLERS.COM