

Your benefits

CO₂ - Footprint Reduction And ISO Certification Contribution

ECO CHILLER helps you to **lower your environmental impact with a footprint reduction**. The system makes a valuable contribution to achieving your ISO 50001 and ISO 14001 certifications.

Constant gaseous nitrogen (N₂) Gas Temperature, Avoid Icing And Fog

Thanks to the evaporation process you are able **to rely on a more constant temperature**. At the same time, icing and fog formation related to N₂ vaporization, decrease.

Significant Energy Savings

By using the cold generated by the nitrogen vaporization you **reduce the energy costs of your own process cooling**.



ECO CHILLER

- 1 Convenient automated system
- 2 Icing and fogging risk reduction for nitrogen vaporization
- 3 Significant energy cost savings
- 4 CO₂ footprint reduction
- 5 ISO 50001- ISO 14000 certifications
- 6 Work safety and process security



Contact Us

Air Liquide - IM-WBL
75 quai d'Orsay
75321 Paris Cedex 07 - France

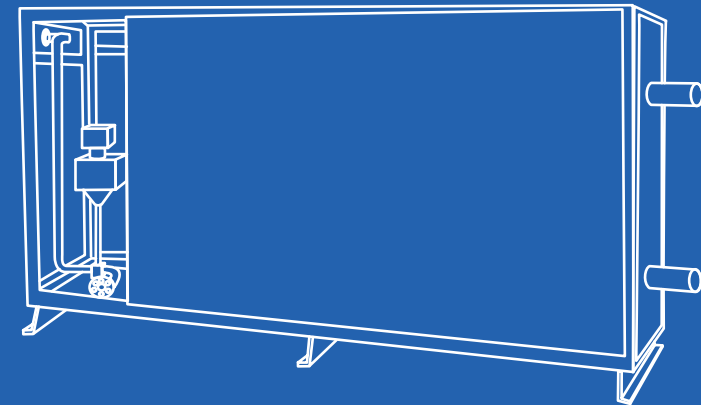
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The world leader in gases, technologies and services for Industry and Health, Air Liquide is present in 80 countries with approximately 66,000 employees and serves more than 3 million customers and patients.



A highly reliable heat exchanger



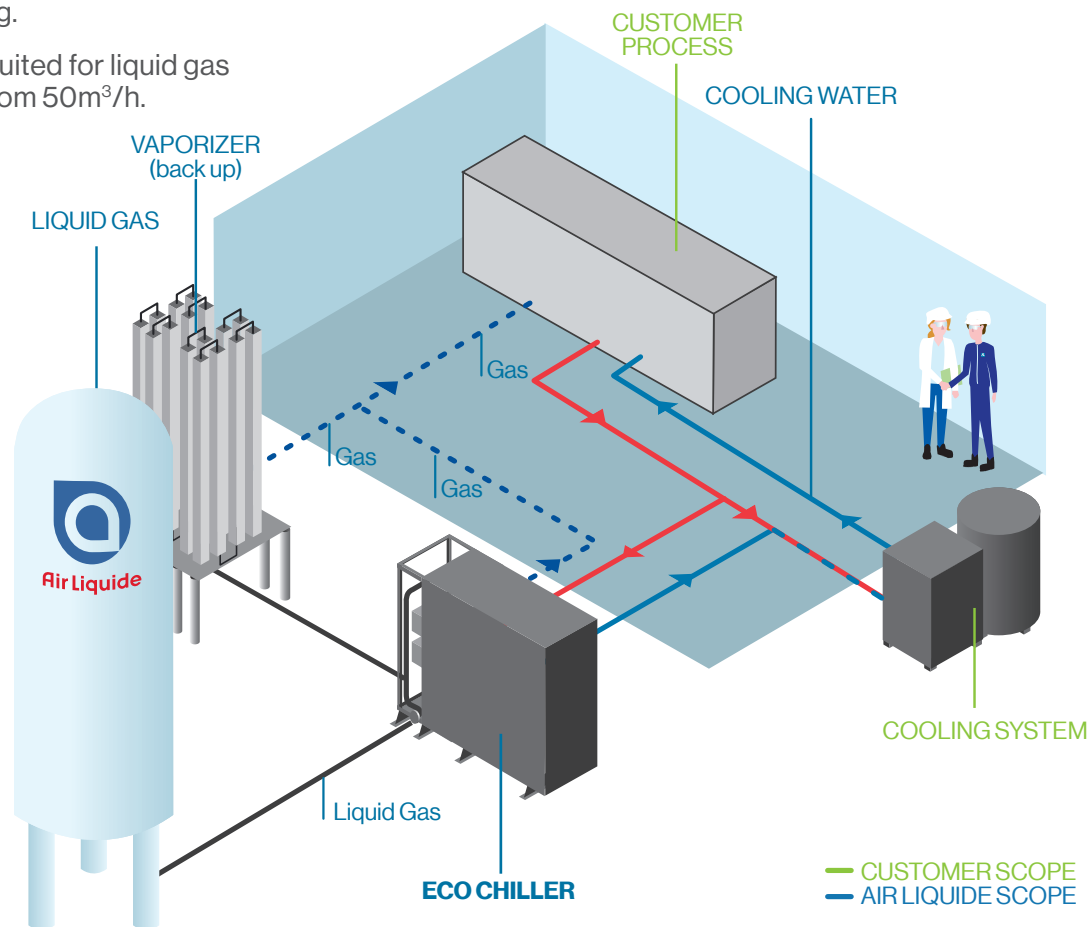
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THE RIGHT SOLUTION FOR YOUR COOLING SYSTEM

A highly reliable automated heat exchanger

ECO CHILLER is an **automated heat exchanger equipment**, designed by Air Liquide to **improve the efficiency of your cooling process**. The system works by recycling the cold generated by the liquid nitrogen vaporization, back into your cooling system and conveniently plugs into your water-cooling network. The pre-cooled water thus relieves your cooling unit and reduces the energy costs of process cooling.

ECO CHILLER is best suited for liquid gas consumption starting from 50m³/h.



The equipment

Liquid nitrogen from the liquid storage tank goes through insulated cryogenic piping into the ECO CHILLER equipment. The warm water from your process is then cooled down by the liquid nitrogen in the ECO CHILLER's heat exchanger.

For optimal operational safety, there is an automated switch function in case of:

- insufficient water flowrate
- insufficient water temperature
- insufficient gas temperature

In these situations, the heat exchanger is bypassed and liquid nitrogen is quickly sent to the air vaporizer.

The Comprehensive Support Of Our Application Experts

You benefit from the full support of our application experts, from the point of the solution's design, right down to its implementation and maintenance.

The model ranges

The ECO CHILLER is available in 3 standardized sizes to adapt to different cooling powers.

ECO CHILLER	100	300	500
Length (m)	2.0	3.2	2.8
Depth (m)	1.5	1.5	2.0
Height (m)	1.8	1.8	1.8
Weight (kg)	200	500	700

Through our solutions, we assist our customers in reducing their carbon footprint