



Advanced Heat Transfer Fluid

A revolution in cooling, energy saving and carbon reduction

A Closer Look at Building Energy

Buildings account for 40% of global energy consumption, with 60% of that energy used for cooling and heating. This makes cooling and heating the most energy-intensive operations in buildings. Based on our central cooling system audit experience, chillers alone can consume up to 70% of a building's cooling energy.

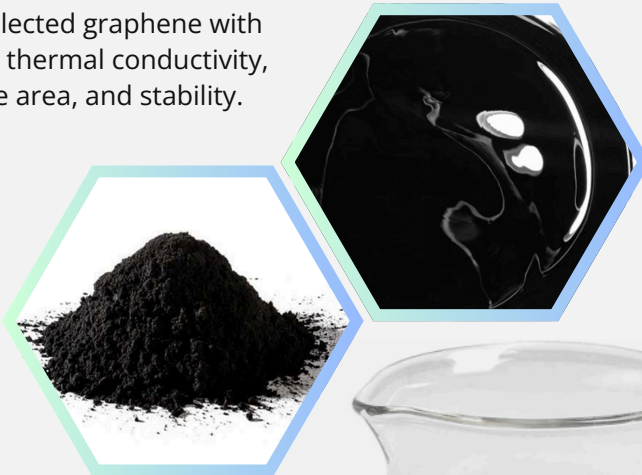
Enhancing Heat Transfer in Central Cooling with Patented Graphene Innovation

AQUENE is an innovative heat transfer fluid that surpasses traditional chilled water in central cooling systems. Engineered with graphene technology, AQUENE enhances thermal exchange efficiency and reduces energy consumption at the chiller up to 15%.

The AQUENE Process

1. Graphene Selection

Carefully selected graphene with exceptional thermal conductivity, high surface area, and stability.



2. Stable Formulation

Through our patented process, the raw graphene is transformed into a highly stable concentrate that effortlessly mixes with water.



3. In-line Conversion

The conversion from our concentrate to the final product occurs onsite and in-line via our proprietary **Dialytix** machine, without requiring operational shutdowns.

AQUENE for Dynamic Sectors

Commercial

Data Center

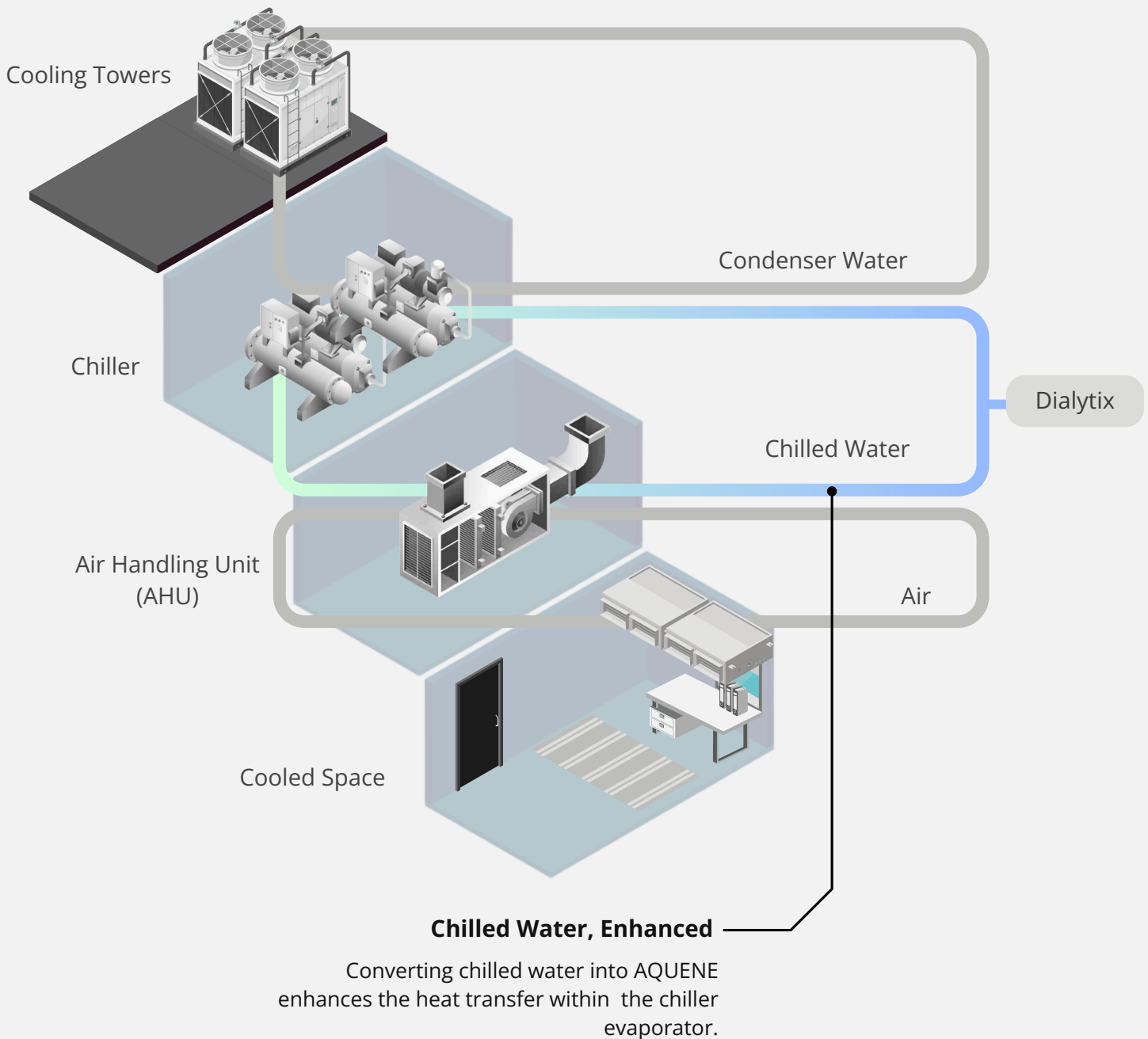
Solar PV

District Cooling

Industrial

E-Mobility

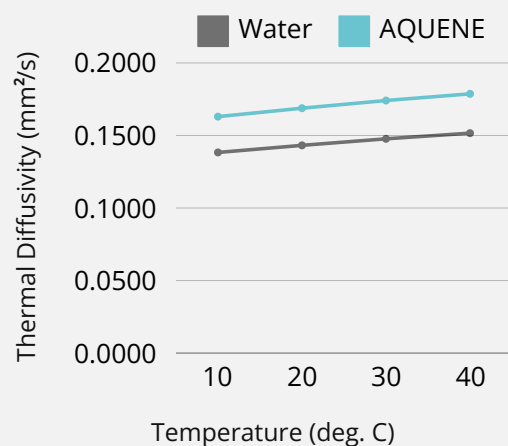
Overview of a Central Cooling System



Properties of AQUENE

Appearance	Black liquid, odourless
Particle Size	Approx. 500 nm
Operating Temp.	4 - 80 °C
Density (at 20 °C)	998.7 kg/m ³
Viscosity (at 20 °C)	1.0809 mPa.s
pH	8.0 - 9.0
Zinc (Zn)*	<0.1 mg/L
Nickle (Ni)*	<0.1 mg/L
Lead (Pb)*	<0.01 mg/L
Manganese (Mn)*	<0.1 mg/L

*As determined by APHA - 3120B method reference.



These results are based on representative samples. Please note that variations may occur between batches due to production processes and other factors.



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