

Advanced Heat Pump Technology



Dalrada Likido™ ONE revolutionary heat pumps replace traditional water heaters, steam boilers, cooling towers, or chillers.

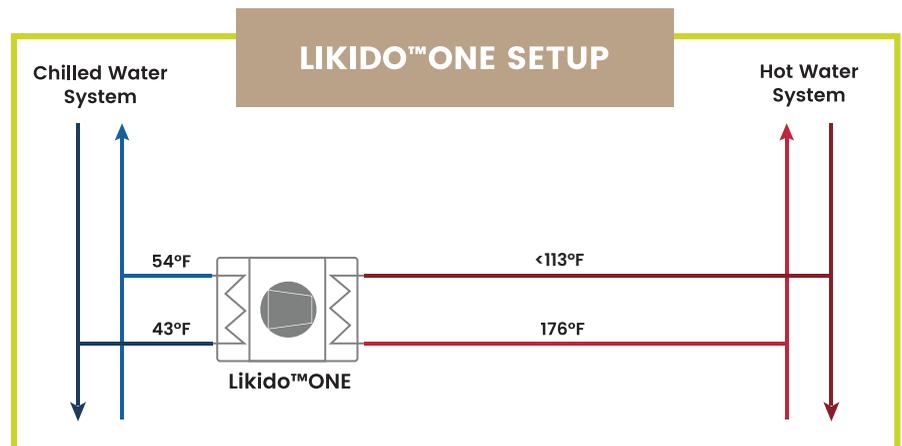
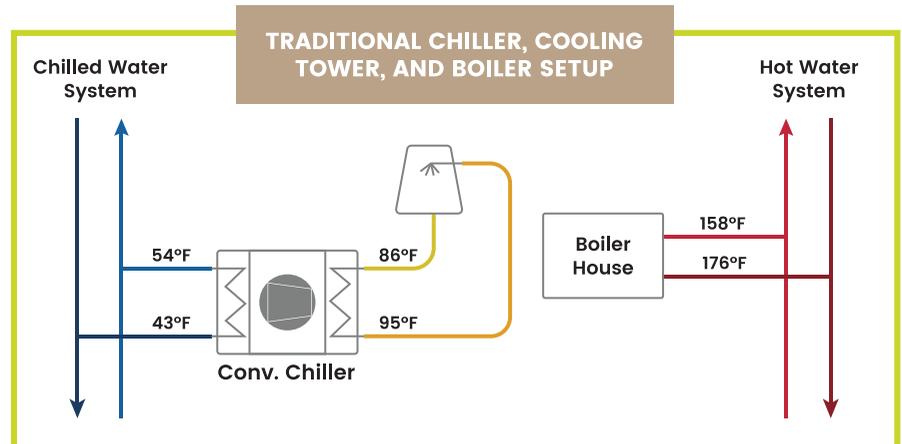
LIKIDO™ ONE HEAT PUMP ADVANTAGES

- **Efficiently** decarbonizes heat
- **Combustion-free** process
- **Reduces** global warming potential (GWP)
- **Uses carbon dioxide (CO₂)** as refrigerant in transcritical refrigeration cycle
- **Retrofittable design**, modular build
- **Climate agnostic**, works in multiple regions
- **Easily implemented** into new and existing building infrastructures
- **Buy American Act (BAA)** and **Trade Agreements Act (TAA)** compliant
- **Real-time performance data** enabled with advanced control module

7X More Efficient
than conventional heating & cooling systems

INDUSTRIES & APPLICATIONS

- Hotels, Gyms & Spas
- Commercial Buildings
- Data Centers
- Hospitals & Medical Facilities
- Schools & Universities
- Food Production & Processing



HOT & COLD COUPLING

Innovative technology for use in applications that link to local heat networks, where hot and cold coupling is a necessity (IT, server cooling, district heating, and more).

01

COST & ENERGY EFFICIENT

Savings of thousands of dollars every year and reduced carbon emissions. Up to 75% increased energy efficiency and eligible for tax credits and incentives.

02

F-GAS EXEMPT REFRIGERANT

Non-toxic, non-flammable, and eco-friendly R744 Carbon Dioxide (CO₂). This natural refrigerant is CFC and HFC free with an ODP of 0 and GWP of 1.

03



Decarbonizing Energy Solution



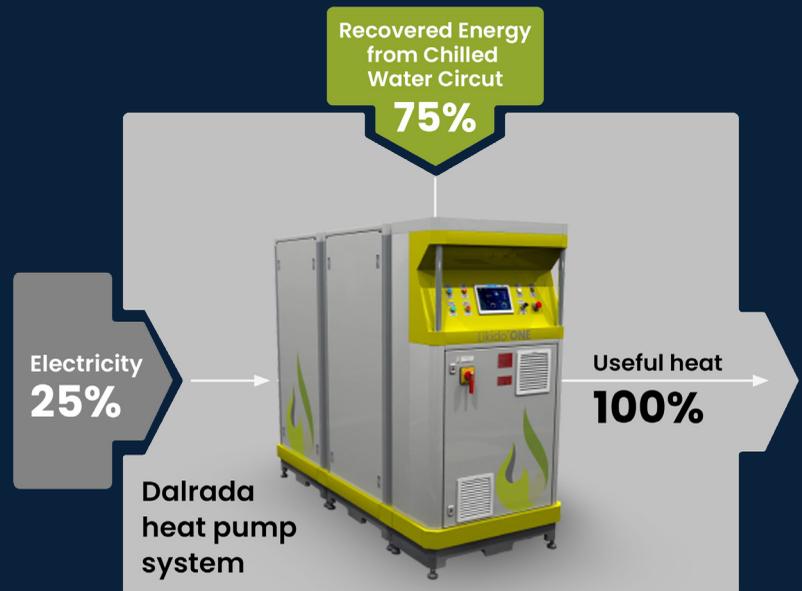
LIKIDO™ ONE OVERVIEW

Likido™ ONE combustion-free heat pumps increase heating and cooling efficiency by capturing and reusing thermal energy, ultimately reducing global warming potential (GWP) through the use of carbon dioxide (CO₂) as the refrigerant.

These advanced machines help support the global initiative of transitioning to Net Zero through renewable and sustainable energy technology and innovation, impacting carbon emissions and improving energy efficiency.

Likido™ ONE replaces traditional combustion boilers and can eliminate carbon emissions at a local level when the system is scaled accordingly and when “cleaner” electricity sources are used.

Up to
75%
reduction in energy consumption



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BY THE NUMBERS

- **7 times** more efficient than traditional boilers and chiller systems
- **1 kW** of electrical energy produces **4.5 kW** of heating and extracts **3.5 kW** of cooling energy from the waste heat source
- Cost-effective heating and cooling over a wide temperature range: **-22°F - +250°F**
- Delivers **60 - 80%** energy savings