NUSCool

NUSCool is a water-based, indirect dew-point evaporative cooler (IDEC), designed for humid countries that achieves energy savings of 40% while being 20% cheaper to manufacture than conventional air-conditioners. Our built-to-fit cooler can reduce the temperature from 32°C to 24°C and adjust humidity to a comfortable level (50-60% RH) more efficiently than our competitors.

NUS National University of Singapore | Institute for Engineering Leadership
College of Design and Engineering
Team: Suhail, Tammy, Viivi, Zhefang | https://www.nuscool.com
Contact: enquiry@nuscool.com

PROBLEM

Air conditioners use chemical refrigerants and generates about

4%

of global greenhouse gas emissions.

Conventional Air-Conditioner

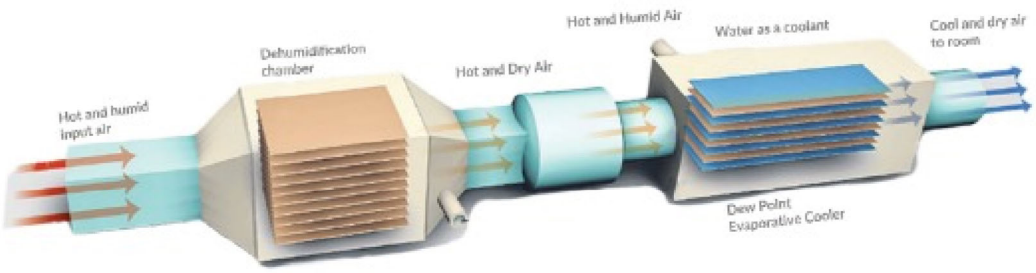
Consumes Chemical Refrigerants

CFCs

Generates ~4% of Global Greenhouse Gases

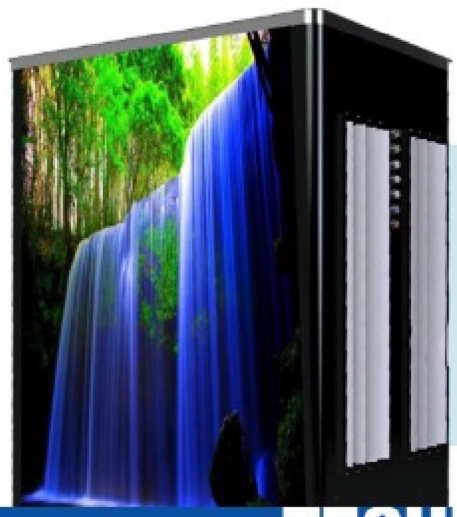
SOLUTION

Cooling hot and humid air using water instead of chemical refrigerants



Redefining **MINIMAL** Carbon Footprint

PRODUCT



Customised-To-Fit IDEC

- Portable & eco-friendly
- Precise temperature and humidity control
- Safe with anti-fungal and anti-bacterial properties

BENEFITS

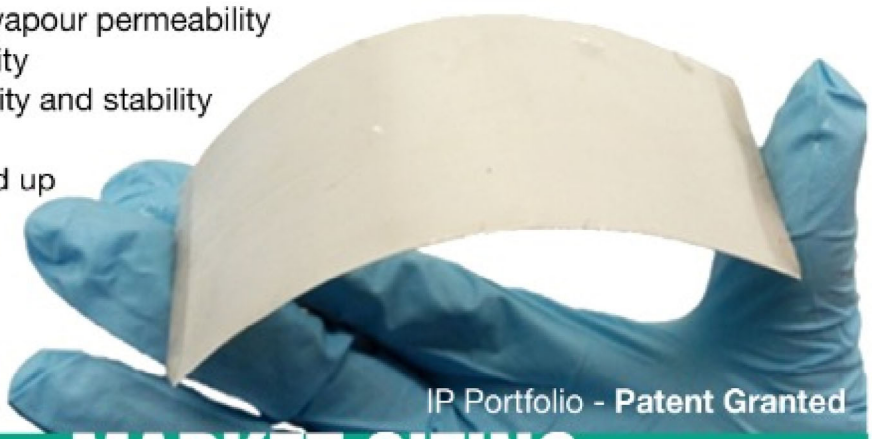
Cost Savings for Customers
20% lower manufacturing and operating cost

Sustainable
40% more energy efficient and does not release heat to atmosphere

TECHNOLOGY

Green Fabrication Membrane

- High water vapour permeability and selectivity
- High durability and stability
- Flexible
- Easily scaled up
- Low cost

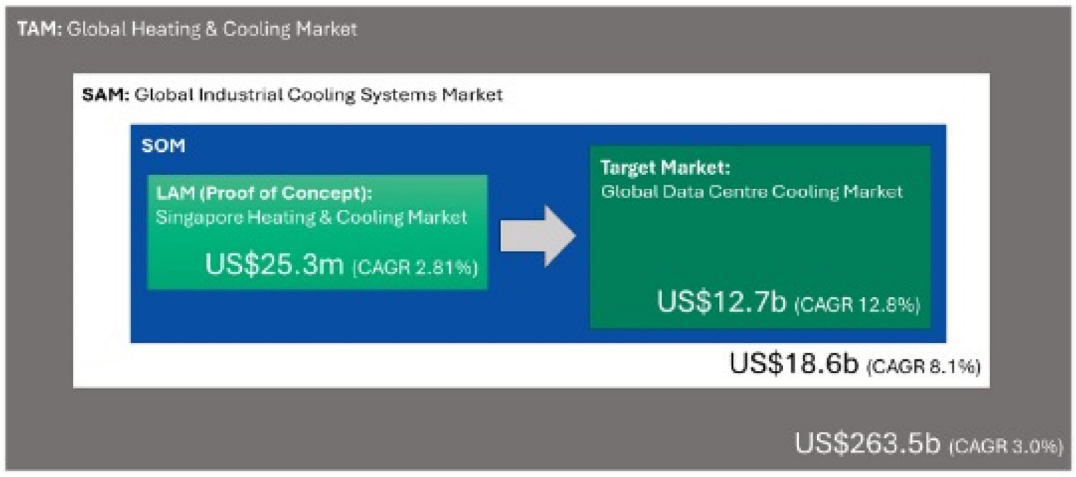


IP Portfolio - **Patent Granted**

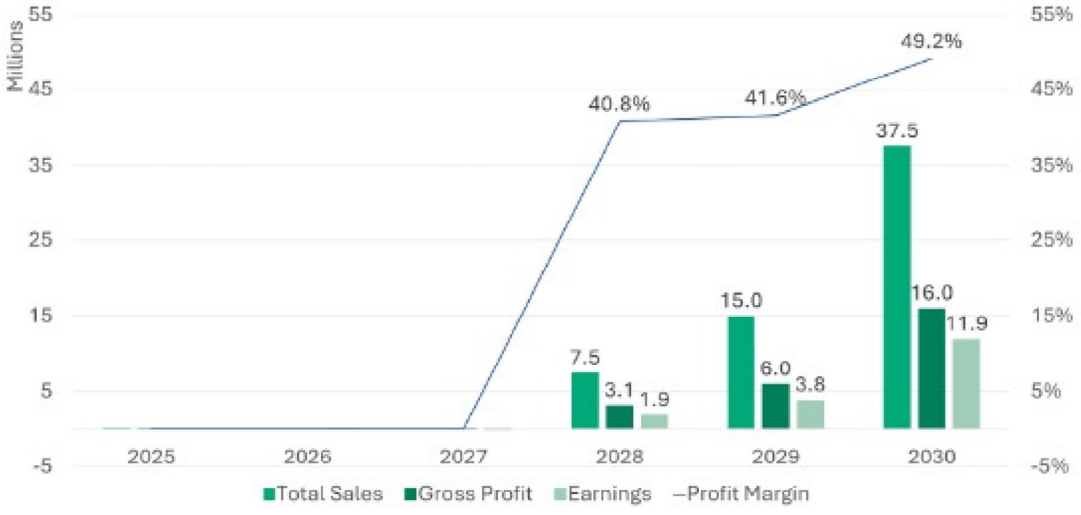
COMPETITION

	NUSCool	AOLAN	AIRBITAT	The Climate Wizard	DAIKIN (conventional)
More energy efficient than conventional A/C	YES	YES	YES	YES	NO
Cooling uses 0 chemicals	YES	YES	YES	YES	NO
Dehumidifies	YES	NO	NO	NO	YES
Adaptive to humid environments	YES	NO	NO	NO	YES

MARKET SIZING



FINANCIALS



DEVELOPMENT PLANS