

About Us

GAIA Tech Pte. Ltd. (GTPL) is founded by a group of experts from AI & Analytics, Computing, IoT, Environmental, GIS and Cartography studies. We specialise in Data Analytics, Machine Learning as well as 2D/3D modelling in Transportation and Smart Building industries.

With a focus on sustainability and environmental consciousness, we help businesses accelerate their path to net-zero emissions while driving operational efficiency and growth. Partner with us to unlock the power of advanced technologies and shape a greener future.

Our company achieved the first runner-up position in the 2022 China-ASEAN Entrepreneurship Startup Competition. With our strong commitment to sustainable technology, the HyperCool Platform has set a new standard, paving the way for a green future.

Contact Us

GAIA Tech Pte. Ltd.

Email: contact@gaiatechintl.com

01-69, Blk 81 JTC LaunchPad@OneNorth

81 Ayer Rajah Crescent, Singapore 139967



PLATFORM & PRODUCT INTRODUCTION

DRIVING CLEAN TECH IN
THE CLOUD

Energy consumption and Scorecard



3D Visualization of Cool Air Flow

Visualization of flow volume
Visualization of air quality score
Visualization of efficiency score

Copyright © GAIA Tech Pte Ltd

iVAV™ SMARTNET APPLICATION

- Integrated Sensor Monitoring: Gain real-time insights through advanced sensor technology.
- Environment Trend Analysis: Predict trends and conditions with precision.
- Environment Profiling: Visualize 2D heat maps and 3D piping layouts for optimal planning.
- Energy Consumption Optimization: Monitor and enhance energy usage efficiency.
- Scenario Simulation: Explore energy scenarios based on varying conditions.
- Efficiency Indicators: Identify and address area/building inefficiencies.
- ACMV Health Dashboard: Stay updated on system health and maintenance needs.
- Air Quality Tracking: Monitor air quality and track efficiency scores.

Linking Real-world Challenges

- An IoT & cloud-enabled platform for optimizing energy in new or brown buildings with HVAC Chilling/Warming
- Real-time optimization of HVAC to achieve Net-Zero Carbon Emission in massive AC utility market
- Save up to 35% electricity & 40% of annual adjustment/maintain cost
- Cost only 5% of conventional solutions over building modifications
- Improve indoor air quality & hygiene level.

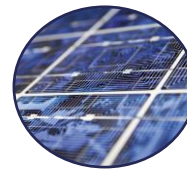


HYPERCOOL



Hyper X Platform

Provides cross platform integration features for new and existing Air Conditioning (AC) systems



Hyper Smart

Forms IoT Compute network and is backed by Propriety AI models



Hyper Healthy

Provide a healthier environment and stay away from AC disease



Hyper Green

Cut the Carbon Emission by 0.1 Metric tons of carbon dioxide equivalent (MtCO₂e) by 2030



CORE PRODUCTS IN AI & SUSTAINABILITY

iVAV™ Data Mesh Computing Units (MCU)



The MCU is an Edge computing unit that can be placed at any location in the building that provides data streaming, edge analysis and localized intelligence.

iVAV™ Mesh Sensing Units (MSU)

The MSU are a group of sensors strategically placed at indoor, outdoor or airside that provides 24 x 7 monitoring data to the MCU and SmartNET Application.



iVAV™ Mesh Regulating Units (MRU)



The MRU is a controller unit installed at the airside of the ACMV system for flow regulation and monitoring.

关于我们

GAIA Tech私人有限公司 (GTPL) 是由一群来自人工智能与分析、计算、物联网、环境、地理信息系统和制图学领域的专家创立。我们专注于数据分析、机器学习以及在交通和智能建筑行业进行的2D/3D建模。

在注重可持续发展和环境意识的基础上，我们帮助企业加速实现零排放的道路，同时推动运营效率和增长。与我们合作，释放先进技术的力量，塑造更绿色的未来。

我们公司在2022年中国-东盟企业家创业大赛中荣获第一名亚军，巩固了其地位。凭借我们对可持续技术的坚定承诺，HyperCool平台树立了新的标准，为绿色未来铺平了道路。

联系方式

GAIA Tech Pte. Ltd.

Email: contact@gaiatechintl.com

01-69, Blk 81 JTC LaunchPad@OneNorth

81 Ayer Rajah Crescent, Singapore 139967



HYPERCOOL

平台与产品介绍

DRIVING CLEAN TECH IN
THE CLOUD

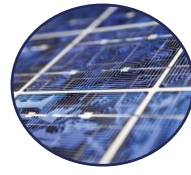
iVAV™智能网络应用程序

- 综合传感器监控：通过先进的传感器技术获得实时洞察。
- 环境趋势分析：精准预测趋势和状况。
- 环境轮廓绘制：可视化2D热图和3D管道布局，实现最佳规划。
- 能耗优化：监测和提升能源使用效率。
- 场景模拟：基于不同条件探索能源方案。
- 效率指标：识别和解决区域/建筑的低效问题。
- 暖通空调与通风健康仪表盘：随时了解系统健康状况和维护需求。
- 空气质量追踪：监测空气质量并追踪效率得分。



Hyper X Platform

为新旧空调系统提供跨平台集成功能。



Hyper Smart

构建IoT计算网络，并由专有的人工智能模型支持。



Hyper Healthy

创造更健康的环境，远离空调疾病。



Hyper Green

到2030年将碳排放削减0.1公吨二氧化碳当量 (MtCO₂e)



HYPERCOOL



人工智能与可持续性的核心产品

iVAV™ Data Mesh Computing Units (MCU)



MCU 是一种边缘计算单元，可放置在建筑物内的任何位置，提供数据流处理、边缘分析和本地智能功能。

iVAV™ Mesh Sensing Units (MSU)

MSU 是一组战略性地放置在室内、室外或空气侧的传感器，可为 MCU 和 SmartNET 应用程序提供全天候的监测数据。



iVAV™ Mesh Regulating Units (MRU)



MRU 是安装在空调与通风系统的空气侧的控制单元，用于流量调节和监测。

Energy consumption and Scorecard



连接现实世界的挑战

- 物联网和云平台，用于优化新建或已有建筑中配备了暖通空调 (HVAC) 制冷/供暖系统的能源利用
- 实时优化暖通空调制冷/供暖系统，以在大规模空调市场中实现净零碳排放
- 可节省高达35%的电力消耗和40%的年度调整/维护成本
- 仅相当于传统解决方案的5%，无需对建筑进行修改
- 提升室内空气质量和卫生水平。

3D Visualization of Cool Air Flow

Visualization of flow volume
Visualization of air quality score
Visualization of efficiency score