



/hae-kohzae/

**Crafting life-care
widgets.**

To live with greater agility
and freedom.

Achievements

360,000+

Non-equity funding (HK\$)



331

Units ordered/sold



11

Official trials with 6 intl. companies



4

Major accolades

THE JAMES DYSON AWARD



4

Incubation programmes



3

Major exhibitions



5

Patents/certifications pending
(wearable cooling technology)



Our Team

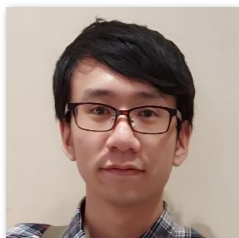
An award-winning team, led by designer architects.



Jeff Li | Chief Operating Officer
Awarded 2 scholarships from HKU
Bachelors in Architecture (BAAS, HKU)



IMAGINEX GROUP



Mac Ju | Chief Product Officer
2-time winner of IYRADC Art and Design Competition
Certificate in Design (Multimedia-Aided Design)
Bachelors in Architecture (BAAS, HKU)



Vito Mak | Electronics Engineer
State Key Lab Research involving signal generators, oscilloscopes, and network analyzers, circuit and antenna simulation
Bachelors in Electrical Engineering (BEng, HKU)



毫
米
波
State Key Laboratory of
Millimeter Waves
國家重點實驗室
(香港城市大學聯席實驗室)
(Partner Laboratory in City University of Hong Kong)



Advisory Board

Professional support with a powerful network.



Faculty of Engineering
THE UNIVERSITY OF HONG KONG



HKU
Med

LKS Faculty of Medicine
The University of Hong Kong
香港大學李嘉誠醫學院



Prof. George Tham

BSc(Eng) (HKU), PhD (HKU)
Ex-associate Dean

Network:



Dr. Parco Siu

Dean

BSc (HKUST), MPhil (CUHK), PhD
(West Virginia), FRSB, FACSM,
FECSS, FHKASMSS



THE UNIVERSITY OF HONG KONG 香港大學
faculty of architecture 建築學院



Ar. William Tam

BA(AS), DipArch(Dist), MA, Sheffield;
RIBA; ARBUK; HKIA; RAHK; PRCRA
(Class 1) Qualification

Network:



Prof. Mark Tam

HBAS (Waterloo), MArch (Waterloo),
MEng (MIT), Dr. Sc. (ETH Zurich)

Problem

Heat. Stress. Accidents...

60%+

Construction workers suffered
heatstroke symptoms

300%

More work errors in **35°C+**
environments

<https://www.greenpeace.org/hongkong/issues/climate/press/39875>
人因工程学/郭伏, 钱省三主编, 2版, 北京:机械工业出版社, 2018.2

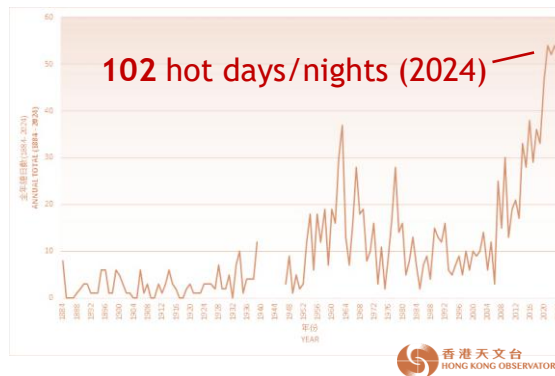
Money Loss...

-\$200/hr

Salary/productivity loss
from heat work-downtime

https://www.censtatd.gov.hk/en/web_table.html?id=29A

Only worsening.



香港天文台
HONG KONG OBSERVATORY

https://www.hko.gov.hk/en/cis/statistic/hotday_statistic.htm

638,464
workers in HK suffering.

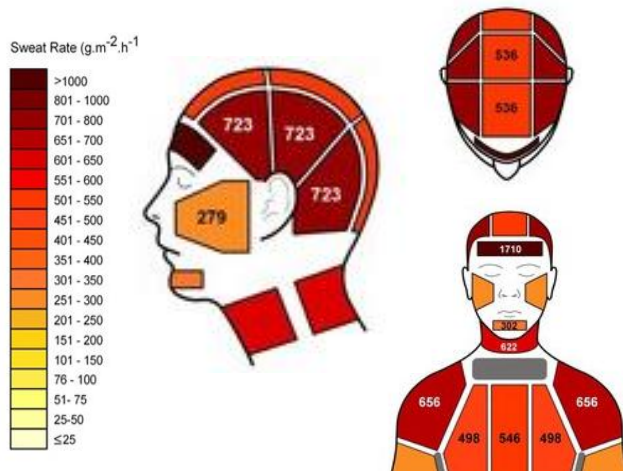
More trouble for the
employers.

Problem

Hot head

Back neck & ears:
highest sweat-rate.

Overheating causes heatstroke.



https://www.researchgate.net/figure/Body-mapping-of-sweat-distribution-at-70-VO2max-running_fig1_49679275/actions#caption

90%

Workers lack portable fans.



<https://civic-exchange.org/protecting-workers-in-a-changing-climate-hong-kongs-heat-stress-system/>



AR 49

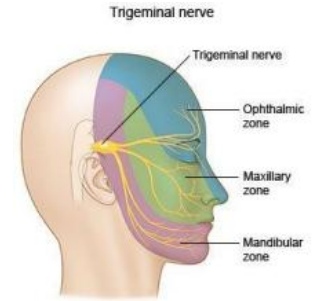
Contactless Biomedical Cooling Additive

A Product of 48 Prototypes



Targeted Hotspot Cooling

Max. temp. difference -5.1°C | Avoids headache nerves ▶



Weightless

155g | Balanced



Hyperduration

Up to 15hr use per charge | 2-3 working days



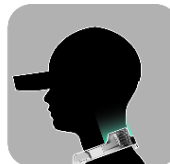
Robust

Triple-point support | Waterproof (IPX4-pending)



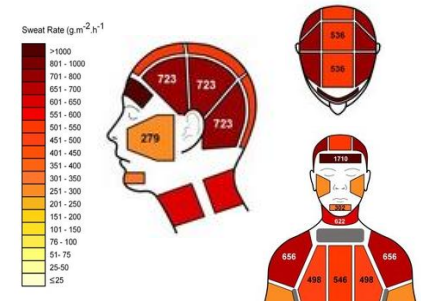
Two-click installation

Fits all helmets



Dual-utility

Neck fan for off-work ▶



Aerodynamic tests: targets high-sweat regions (neck, back), avoids cold stimulus of the facial trigeminal nerve; and providing ventilation upwards and within helmet.



Fig. D: $T=0.3\text{s}$

R&D - Past to present



Best

Okay

Bad

Worse

Worst

Competitive advantage

Helmet cooling solutions



Tajima (Japan)



Taobao (China)



KleinTools (US)



AR 49

Duration	5-12hrs	14-24hrs	8-16hrs	15hrs*
Agility	Obstructs looking up	Overweight	Extends outwards, exposed wiring	100% cranial freedom
Balance	Weight at back neck	Heavy weight at front and back	Weight at back neck	Balanced ring around head
Device Weight	305g	610g	570g	155g
Usability	Limited to helmets with specific brim	Cannot remove fan, illegal	Limited to Klein helmets	Functional without helmet, Two-click install
Noise	64dB	51dB		30dB
Price (HK\$)	HK\$1170	HK\$260-360	HK\$663	HK\$320

<https://www.japanrendshop.com/tajima-seiry-helmet-cooling-fan-2-p-5096.html>

<https://item.taobao.com/item.htm?abbuc ket=19&id=712465115511>

<https://www.amazon.com/Klein-Tools-60523-Lightweight-Rechargeable/dp/B0CHN6M1TJ>

Depending on bulk size*

*Battery duration at lowest level of windspeed.

Competitive advantage

Other cooling solutions



Circulator



Neck Fan



Cooling Jacket



Waist fan



AR 49

Cooling efficiency*		12.0 (@-3.0°C)	2.7 (@-2.7°C)	9.0 (@-3.0°C)	21.1 (@-3.2°C)
Duration		4-12 hrs	7-12 hr	2-6 hrs	15hrs
Agility	Stationary	Limits neck movement	Limits torso movement	Limits torso movement	100% cranial freedom
Balance		Weight around neck	Battery at side pocket	One-sided	Balanced ring around head
Device Weight		250g	1020g	333g	155g
Usability	Needs power socket, creates dust clouds, impersonal	Unstable when moving, Discomfort from direct contact, Dries eyes	Hard to wash, needs frequent wash	Unstable when moving	Functional without helmet, Two-click install
Noise	66dB+	30db	50db	60dB	30dB
Price (HK\$)	\$560-750	\$80-350	\$500	\$150-350	HK\$320

*Cooling efficiency = tested neck skin temperature difference/total weight (kg).

Unique Selling Proposition



More targeted cooling:

1st to market in biometric cooling.

Best battery life to weight ratio:

15 hours (900min)/155g = 5.8min/g.

[Tajima = 2.4min/g. Taobao = 2.4min/g. KleinTools = 1.7min/g]



More multi-functional:

1st to market in dual functionality as helmet air-conditioner and neck fan.

More adaptable:

Proprietary Smart-locking mechanism adapts to all safety helmets.



Medical support:

Product of 11 on-site trials, supported by professor-backed methodology in collaboration with the University of Hong Kong's Faculty of Medicine.

Use cases

11 trials completed with 6 companies - to perfect the product



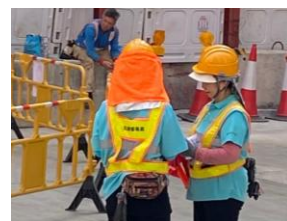
小蠔灣地鐵廠



九龍灣宏照道公屋



磡石灣污水處理廠



紅磡煥然懿居



啟德簡約公屋



上水警察設施



迦納M&S總部



迦納ENI氣油公司

 中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LIMITED

 俊和
CHUN WO

 市區重建局
URBAN RENEWAL
AUTHORITY

 BuildKing

 MENDANHA & SOUSA

 DRILTECH

 CHINA CIVIL
中国土木

331 (HK\$84,870 in value)
Units sold/signed LOI

 中國建築工程(香港)有限公司
CHINA STATE CONSTRUCTION ENGINEERING (HONG KONG) LIMITED



 FSE ENGINEERING GROUP LTD
豐盛機電工程集團有限公司
A Member of FSE Lifestyle

 永祥興有限公司
CHEE CHEUNG HING & CO., LTD.

Dear Safety Officer,

Subject: Letter of Intent for Provision of H&M Safety System Accessory by Haydon Limited.

This Letter of Intent (LOI) confirms the intent of Haydon Limited (Contractor) to provide 100 units of H&M Safety System Accessory, developed by Haydon Limited, to support the construction of the Red磡煥然懿居 project, which is being developed by Chun Wo (Developer).

Each H&M unit is priced at HK\$1,000.00. The Contractor will purchase 100 units of H&M units from Haydon Limited, and the parties will conclude the sale for HK\$1,000 per unit upon satisfactory completion.

Please note that this LOI is non-binding and will be used only for reference in the development of the H&M Safety System Accessory. The Contractor will be responsible for the design, development, and testing of the H&M Safety System Accessory, and the Contractor will be responsible for the design, development, and testing of the H&M Safety System Accessory.

Please confirm your intent by signing below:

Signed: WONG King Hing
Contractor
Haydon Limited

Acknowledgment of Intent to Purchase

I, WONG King Hing, (Safety Officer Name), representing Haydon Limited, acknowledge the intent to purchase 100 units of H&M Safety System Accessory, developed by Haydon Limited, for the construction of the Red磡煥然懿居 project, which is being developed by Chun Wo.

Signed: WONG King Hing
Developer
Chun Wo Limited

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Chun Wo Limited

Target Market



\$49.2B

40%

\$19.7B

<0.01%

\$1.72m

TAM

Personal cooling device market
(Global, 2025)

<https://www.meticulousresearch.com/product/portable-and-personal-hvac-cooling-devices-market-6212>

SAM

Personal cooling device market
(Asia-Pacific, 2025)

<https://www.meticulousresearch.com/product/portable-and-personal-hvac-cooling-devices-market-6212>

SOM

Year 3

Currency in (HK\$)*



OXFAM



HAYKOZÉ

AR 49

For Outdoor Cleaners



Upcoming: For workers to enjoy smart systems.



發展局
Development Bureau



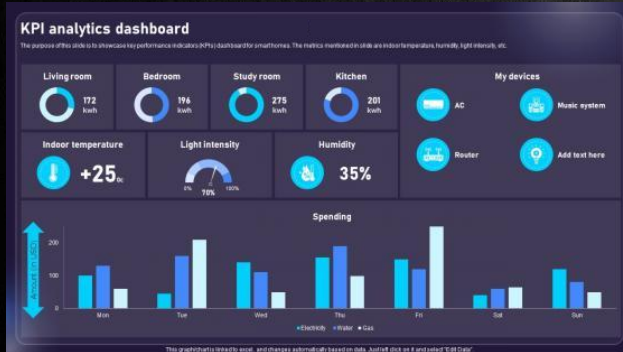
CONSTRUCTION
INDUSTRY COUNCIL
建造業議會



安全智慧工地系統標籤計劃
SMART SITE SAFETY SYSTEM
LABELLING SCHEME



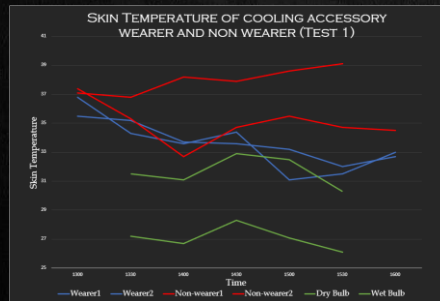
CITF
建造業創科基金
CITF Pre-approved Product



Compatible across CMP, site wide monitoring



Heat sensors to track worker health in heat



AI data analysis of worker temp fluctuation according to environment: heatstroke warnings



AR 50

IoT-enabled
Biomedical Cooling Additive



AS 01

Invisible Air Collar

Upcoming: For hikers and runners to enjoy the summer.

Revenue Model

Year 1



Year 2



Year 3

Product



Region



Industry

Construction

Construction, Lifestyle

Construction, Lifestyle,
Mining, Outdoor
cleaning

Volume
forecast

2116

~\$320/pc

3732

~\$320/pc

5210

~\$320/pc

Revenue¹

\$677k

Pessimist's estimation

\$1.19m

3.1% of manual labors 
<1 in 13400 manual labors 

\$1.72m

<0.01% of APAC market

Industry-wide value



Construction worker



Earn more from less downtime



Enjoyable working condition



Less work-halting accidents, deaths



Improve ER/EE relationship



Construction firm



Recover salary, time cost
\$200/hr/worker
15min/hr/worker



Gain innovation accolades, remuneration



Advantage in securing future contracts



Save costs from sped-up work



Enhance leading brand image



Advantage in hiring



Resolve tension from heat-rest guidelines



HAYKOZÉ



Government



Attract talent to solve ageing industry



Uplift futuristic industry image



Strong push for construction innovation

✓ Compliance with:
Cap 5.3.3. *Heat stroke prevention at work*

✓ *Pay For Safety Scheme*

✓ *Smart Site Safety Scheme*
(pending)

We need your support.

To **free** the workers from **global warming**.



Branding

Support in standing out from the rest



Supply Chain

Local manufacturing advice, budgeting



Going International

Critical connections to international partners (**Singapore, Australia, UAE**)



Elevate industry standards

~~heat accidents~~, recover lost work hours



Integrate IoT system

Heat sensors, CMP, track worker health



Expand market

Liberate 229m+ outdoor workers globally