

Introduction slides

FUNPRESSOR

Mega Efficient
Cooling & Heating
Technology



The technology - Groundbreaking (patented)

Dual fluid refrigeration cycle, using natural refrigerants & secondary liquid in applicable in a novel system & compressor. Improving compression & reducing the power load of the compressor & condenser fan

Clean

Same cost of goods

Form, Fit, Function drop in replacement

Fast time to market

35 - 50% Power savings



Market size and impact

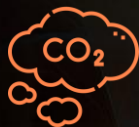
Some numbers, they are all big!



50%

Heating and Cooling

Is 50% of the world energy final consumption (IRENA)



8 Gigatons

World GHG reduction potential per annum



€ 168.5B

TAM 2023
of HVAC global

Our major applications all figures 2023 – per annum

1 Our First Target Market Commercial refrigeration



\$ 40B Market

2 Residential



- Cooling
- Heat pumps
- Hot water

\$ 78B Market

3 Data Centers Cooling

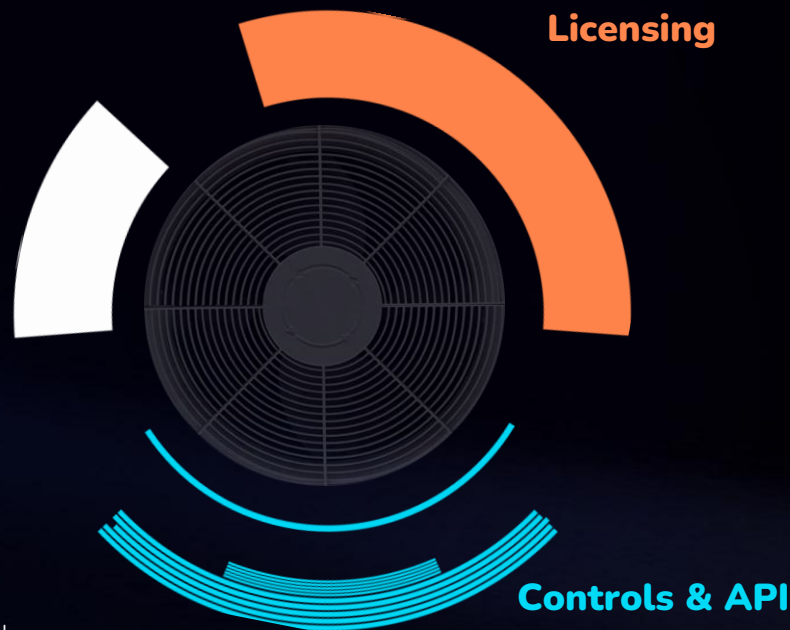


\$ 18.75B Market

Business Model

We receive revenues on every system sale of our manufacturing and marketing partners

Design & Engineering services



Revenues in 3rd year – Cash flow positive in 5th

Business model - example

Current Sale ~ €200,000 → Annual electricity bill ~ €80,000 a year → 10y Simple cost for client ~ €1,000,000



Revenues – Savings

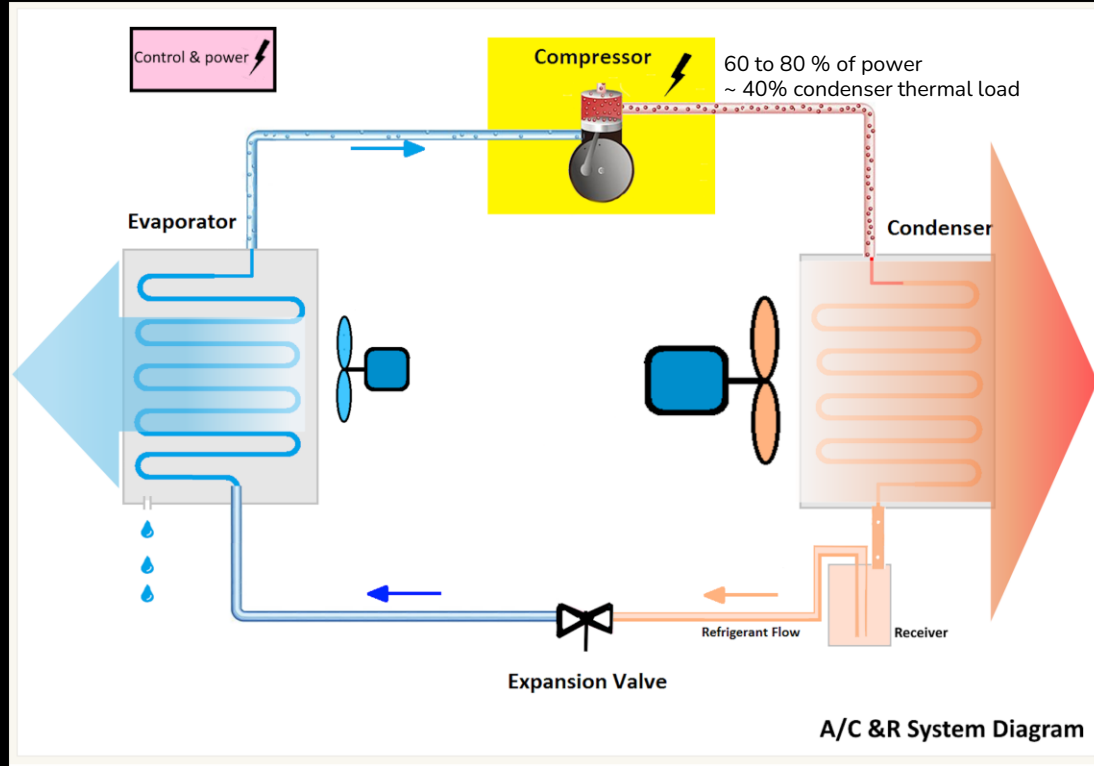
Are shared with the whole chain:
Manufacturing (API, Licensing),
Integrators (JV's)
Installers (Points)

Avg. Sale ~ €240,000 → Annual electricity bill ~ €52,000 a year → 10y Simple Cost ~ €800,000

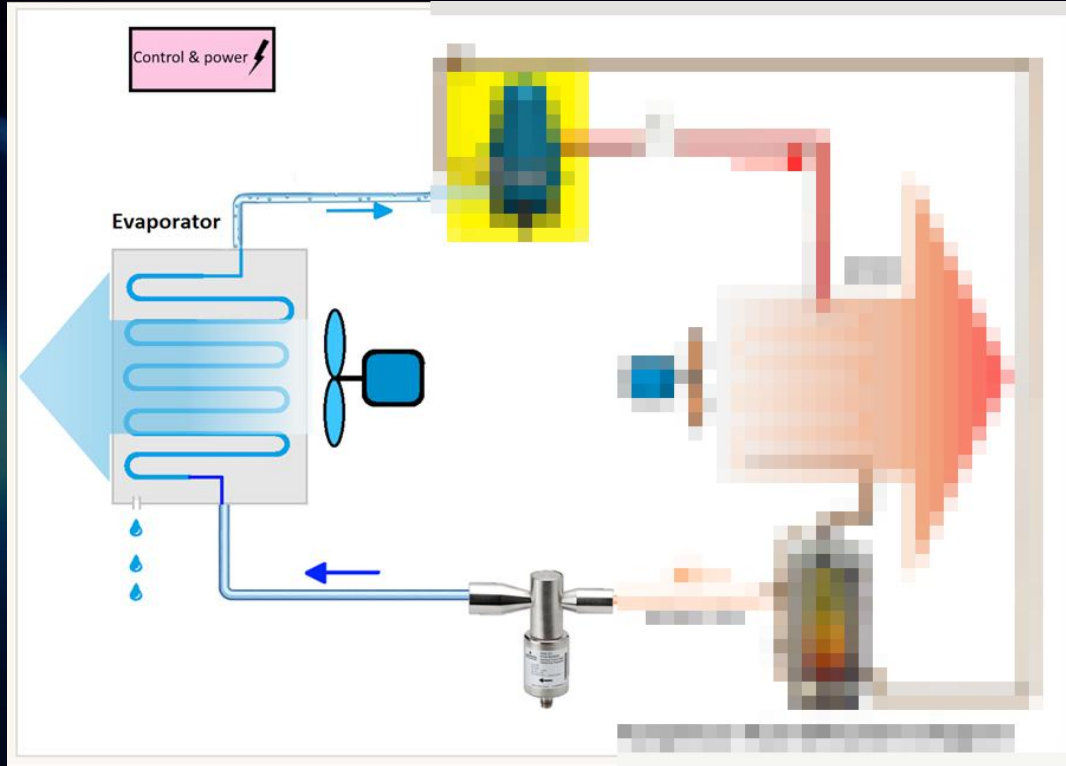
€40,000 - Premium

~€40,000 – yearly performance-based bonus

The operation of an HVAC&R unit

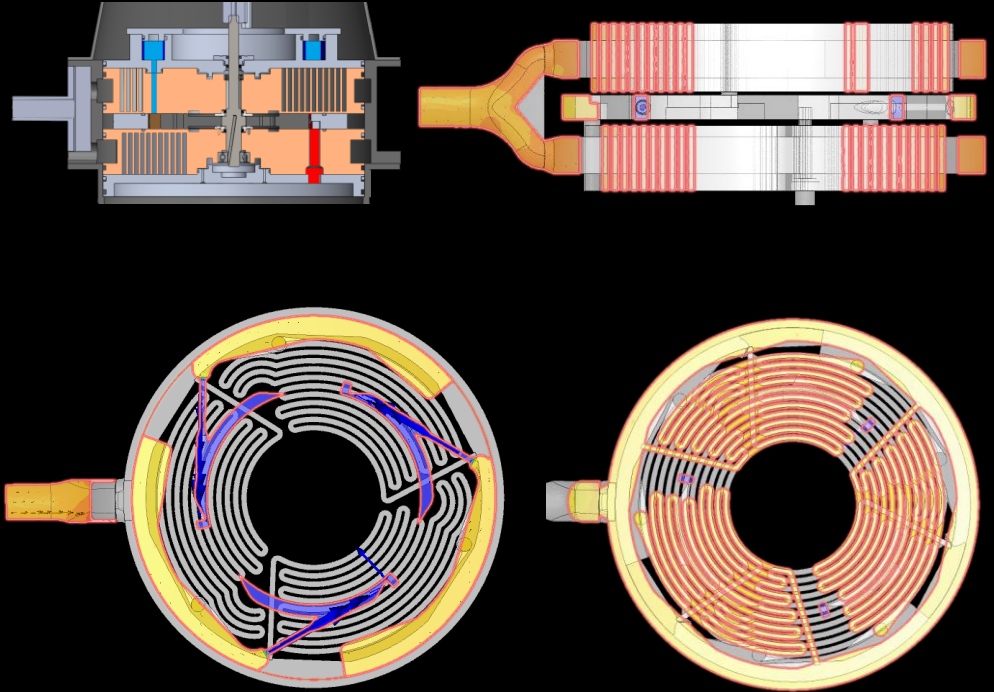


The operation of FUNPRESSOR unit



Stage of development

TRL3 going on 5/6



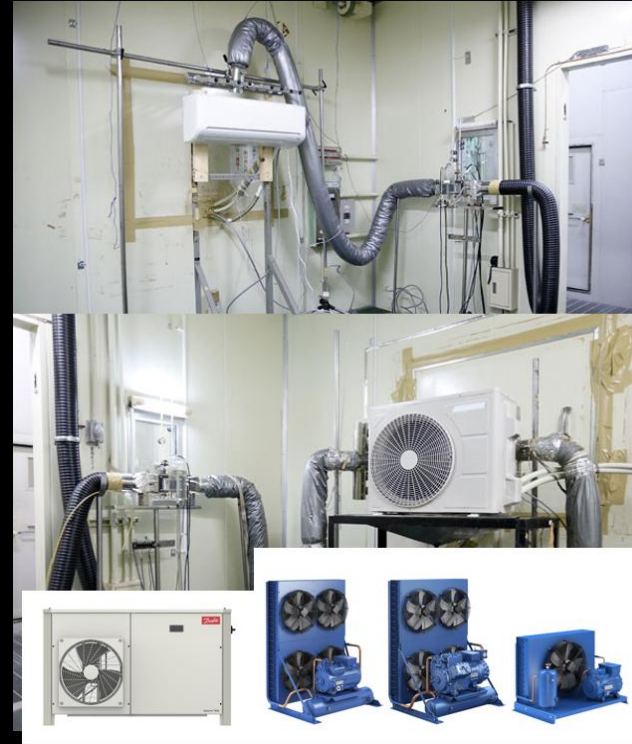
Show of development stages – support systems



Test Bench



Compressor Calorimeter



Refrigeration/ AC test facility

The FUNPRESSOR technology - enablement

An ultra efficient, dual fluid, refrigeration cycle and at its heart a novel compressor



DHW



Solar



Storage, pressure



Cascade



New applications

**More
then
power savings**

Our Team



Amir Hirshfeld

CEO & Founder

This is very much Amir's brainchild. He brings 25+ years of hands-on HVAC&R design. He started his career in the HVAC dept of IAI and has over 15 years C level of start-up experience. Leading expert and evaluator of renewable energy for IIA, MOE, large corporations & VCs.

Founder & CTO of Linum systems – a start-up in the HVAC field (2008-2016).



David Waimann

VP marketing & sales

David is an experience tech entrepreneur with 3 exits, two of which were in the HVAC industry.

He was previously chairman and founder of Solcon Industries (industrial controls), CEO of Elencon (chiller controls), and chairman of South West Energy UK (heat pump sales and install).

Our Heavyweights development team



Bob Utter

40 Year veteran of
HVAC compressor
industry

VP Refrigeration Eng. Tecumseh products co.,
Author of 30+ patents
Former Chairman & member – Technical
Committees for ASHRAE



Paul (PJ) Sikorsky

30 + Year Compressor
Metallurgical Eng. Expert

15Y+ private consulting in the field.

Trane, Inc., Senior Engineer
ASM International– Chair, Materials
Property Database Committee;

Our partners so far



Received initial grant



Accepted to pilot site



Integration partner



Danfoss, Bitzer and many more
Israel's representative

Soon to be announced

In DD with Lead VC
For Pre-seed

This document is proprietary and confidential.



Competitive analysis

"New" and old Technology Solutions review in terms of KPI's for new compressor technology assimilation

Innovation type	Status / Stage	Time to market [Years]	Drop-in replacement	Technician tools & training
Current compressors design improvements	Fighting for incremental gains	0	Not needed	Not needed
Adsorption & absorption	Niche solution only	0 on the old no signs for new gen.	Requires complete retrofit	Requires new set of tools & skills
Magnetic cooling	Proof of commercial viability	~5 years to emerge	Assumed Low Materials change	Complete overhaul
Thermoacoustic cooling	In academic development	5 to 10 years	Requires complete retrofit	Requires new set of tools & skills
Funpressor	Moving from idea to reality	2 years	Not needed	Not needed



Please talk to us for more information, - Amir & David

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Thanks

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