

Welcome to



ENERIQS

CHILLER EFFICIENCY OPTIMIZATION

About Eneriqs

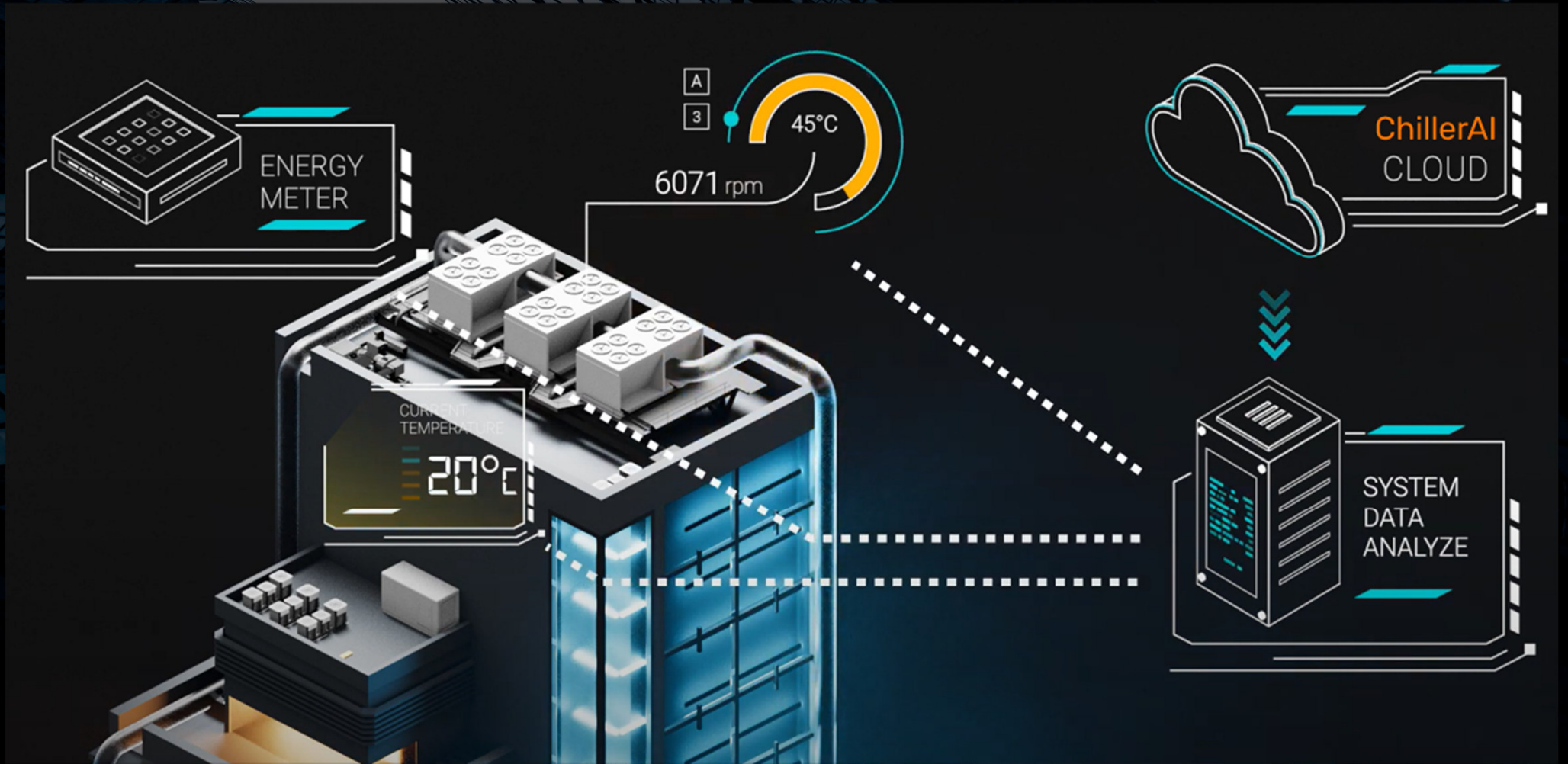
Minimize cooling expenses with the proven,
patented and most accurate **predictive AI** solution
for Chiller efficiency optimization

Method of controlling a chiller

Granted Patent

VEED.IO





Commercial Air Conditioning – Challenges

1



Up to 50% of chiller energy is wasted

HVAC operation accounts for the bulk of commercial building's energy expenses

2



High Chiller Maintenance Costs

Due to complex machinery malfunctions and breakdowns

3



Inadequate Air Comfort

Air is too cold or too humid due to static and out of sync building control systems

Data Sources



Outdoor/internal
Temp & Humidity



Peak Demand
Charge



Weather
Forecast



Un/predicted
Events



Machine Learning



- Heat transfer Coefficients
- Thermodynamic Mapping
- Cooling Demand Predictions



Autonomous Control Engine



Chiller Optimization



ChillerAI Architecture



Customer Benefits

1



15-30% Savings
on Chiller Energy expenses

2



Extended Chiller Lifespan
via optimized Operation
& Reduced working hours by ~30%

3

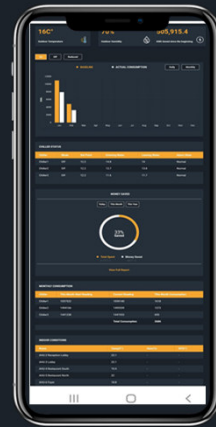


Improved Air Comfort
via Dynamic Operation Based on
Temp/Humidity Algorithm

Eneriqs VS Competition

| Competitor: | Eneriqs AI | IOT/AI StartUps | BMS/BAS | Chiller Controls |
|--------------------------------------|------------|-----------------|---------|------------------|
| Air Comfort Temp/Hum algorithm | ✓ | ✗ | ✗ | ✗ |
| Predictive | ✓ | ✓ | ✗ | ✗ |
| Autonomous | ✓ | ✓ | ✗ | ✗ |
| Non-Intrusive System & Installation | ✓ | ✓ | ✗ | ✓ |
| Chiller specific | ✓ | ✗ | ✓ | ✓ |
| Patented | ✓ | ✗ | ✗ | ✗ |
| Low Cost | ✓ | ✗ | ✗ | ✗ |
| Self Sufficient System (Independent) | ✓ | ✗ | ✓ | ✓ |

Web based User Interface



- ✓ Easy access platform
- ✓ Accessible from any device
- ✓ Easily Monitor internal conditions, Chiller Activity, Switch AI system ON/OFF

The Eneriqs Kit: High-End Hardware

Allowing accurate metering, sensing and a fast and non-intrusive installation



Wireless Sensors



High-End Energy Meters



Industrial PC's



Agnostic system

Our system can work with **ANY** :

- Communication Protocol
- BMS/BAS system/Controller
- Chiller Make and Model

Target Markets



Hotel Chains

AVG Annual Savings : \$72k



University Campuses

AVG Annual Savings : \$48k



Office Buildings

AVG Annual Savings : \$36k



Nursing homes

Annual Savings: \$60k

Chiller AI - Royal Beach TLV: System Performance

Commercial Beta Site

Operating since 2018

Proven Savings

21% - Or 4,560\$ per month

Proven Comfort

Better Air comfort due to rigorous

Temp./Hum. monitoring and AC

optimization




Why ChillerAI?

- ✓ Cash flow positive day one
- ✓ Risk free installation
- ✓ Chiller & BAS agnostic
- ✓ Predictive & Real time autonomous optimization
- ✓ Non-Intrusive system and Installation
- ✓ 20-35% Proven Energy Savings
- ✓ State of the art tool for the building manager
- ✓ Extended Chiller lifespan
- ✓ Low-Cost installation

Get In Touch

OPHIR MAYER

 Mayer@eneriqs.com

 + 972 54 6305655

 Eneriqs.com