

COOLING AI DATACENTERS!

UP TO 90% MORE ENERGY EFFICIENT



JJ COOLING INNOVATION
LAUSANNE, SWITZERLAND
J.B. MARCINICHEN, CEO
J.R. THOME, CTO (SPEAKING)

LEADERS IN ELECTRONICS COOLING TECHNOLOGY

RECOGNIZED AS LEADERS BY AI HARDWARE COMPANIES



Dr. J.B. Marcinichen
Co-Founder & CEO

- Former Senior EPFL Researcher
- PhD Santa Caterina
- Passive & active two-phase cooling
- Thermal-hydraulic simulation codes



Prof. Emeritus J.R. Thome
Co-Founder & CTO

- EPFL Prof Emeritus
- Oxford University PhD
- World Leading Expert in Micro-Two-Phase Cooling
- Google Scholar: **#1, #3 and #4 in citations in boiling, 2-phase flows, electronics cooling**

Now team of 13 with own test and quality control labs and workshop.

DECADES OF CONSULTING IN ELECTRONICS COOLING

NOW TURNED INTO OUR SCALABLE TECHNOLOGIES

AI Datacenter
Hardware

AI Edge
Computers

Micro
Refrigeration

5G Base
Stations

Aerospace
Electronics

Power
Electronics

EV Rapid
Charging

Battery
Storage

Automotive
Batteries

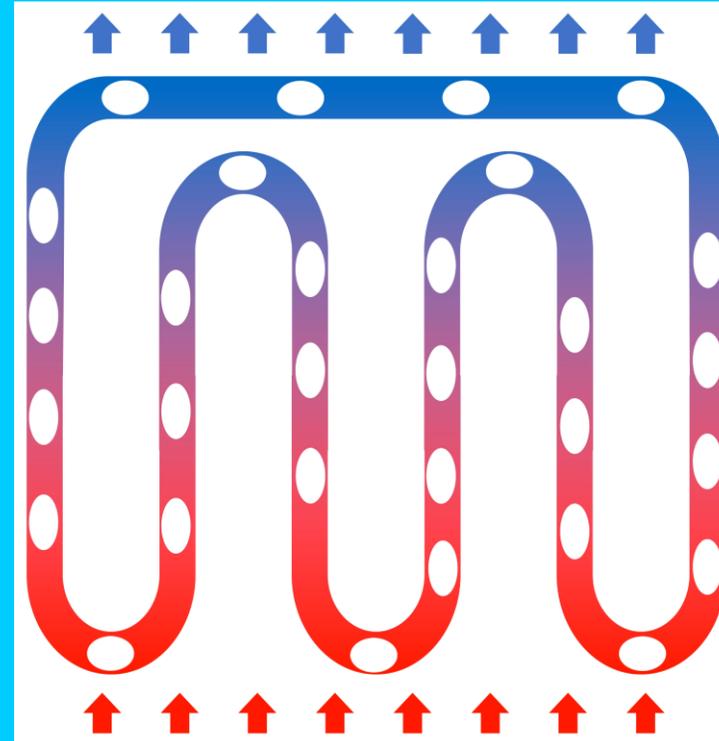
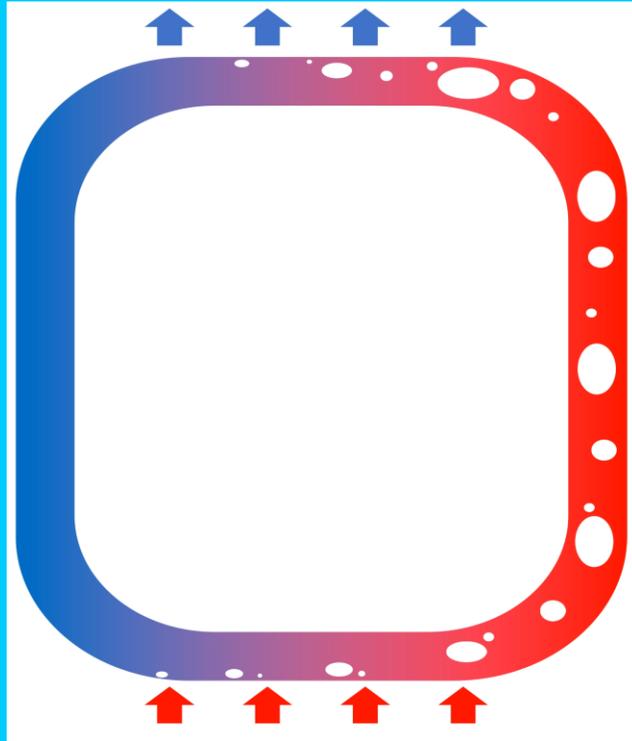
Our Solution: *Two-Phase Flow Cooling Technology & Inhouse Engineering Simulation Software Fully-Validated versus Our Proprietary Database*

BIGGEST PROBLEM IN AI DATACENTERS: COOLING!!!

A

OUR BREAKTHROUGH IS PASSIVE TWO-PHASE

We Harness Gravity and Laws of Physics to Cool

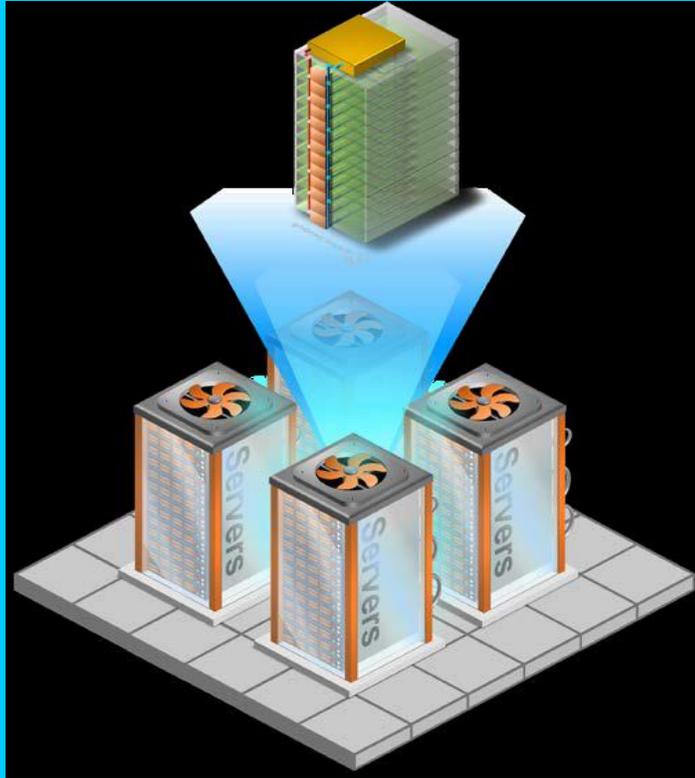


These Passive Flows Run w/o Energy

OUR PRODUCTS ARE THE SOLUTION FOR AI DATACENTERS

JJ-COOLRACKS

PATENT PENDING



FOR DATACENTER WITH
UNDERFLOOR WATER

JJ-AIRCool

PATENTED



FOR DATACENTER WITHOUT
UNDERFLOOR WATER

**BOTH TESTED, READY
FOR PRODUCTION & SALE
(CLIENT VALIDATION)**

**WE REDUCE
COOLING POWER:
UP TO 90%**

**WE REDUCE
DATACENTER POWER:
UP TO 25%**

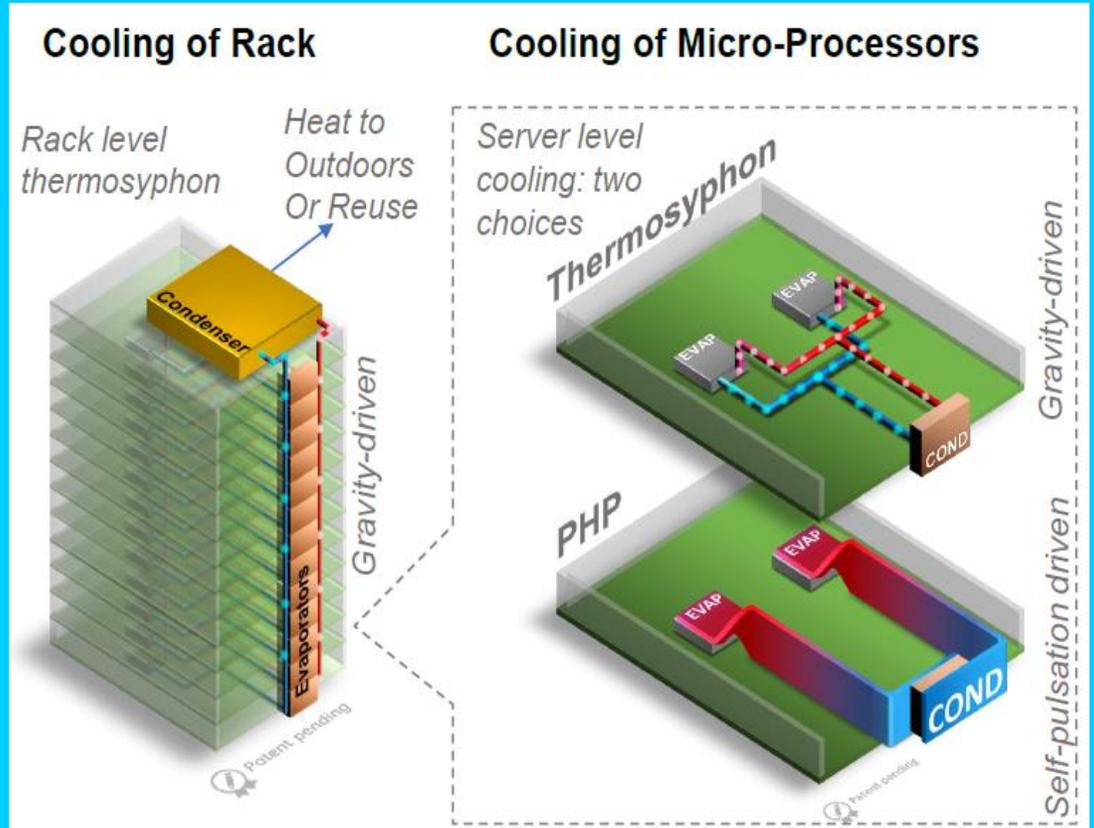
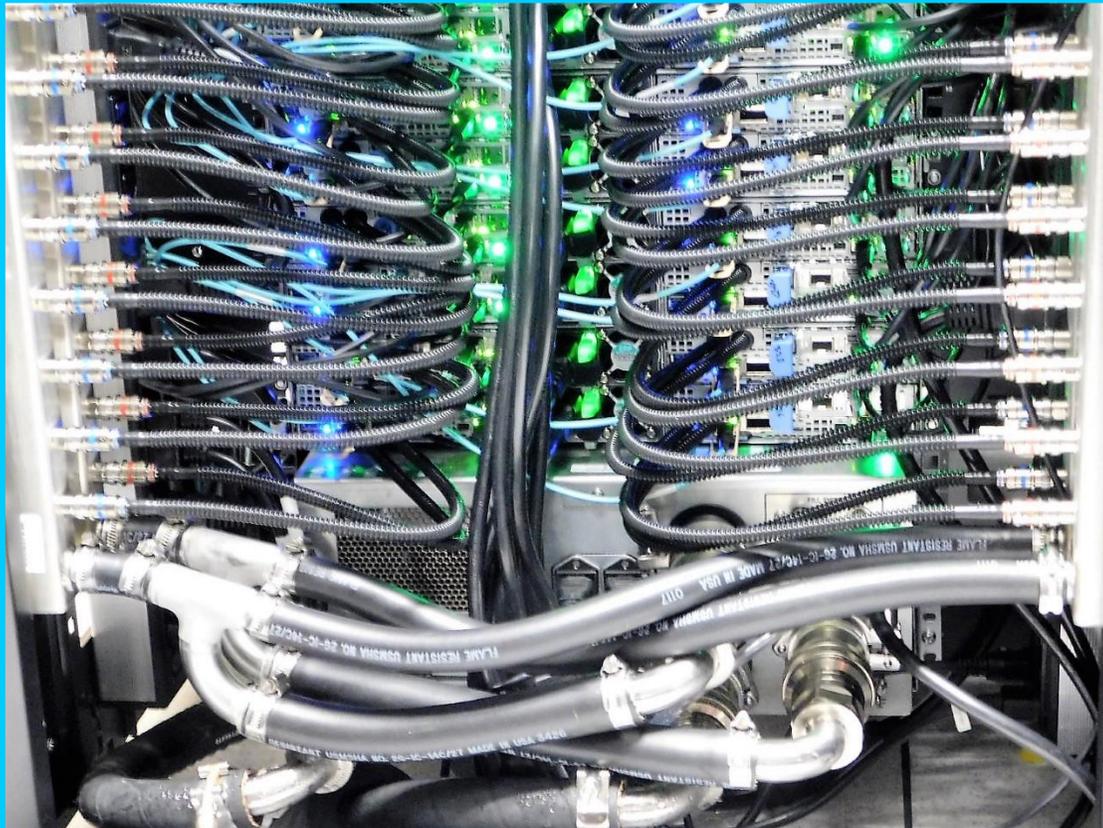
**OUR GLOBAL IMPACT:
DATACENTERS IN 2030
WILL CONSUME
10% OF GRID.**

EXISTING WATER-COOLING VS. OUR COOLRACKS

WE SOLVE OUR CLIENTS' MAJOR PROBLEM: DATACENTER COOLING!

TODAY: WATER-COOLING IS JUNGLE OF HOSES THAT COOL NOTHING

FUTURE: COOLRACKS IS ENERGY EFFICIENT CHEAPER AND EASY TO INSTALL



OUR PRODUCT COOLRACKS: SOME IMAGES/PHOTOS

IMAGES OF COOLRACKS



**PLUG-AND-PLAY
COOLRACKS IS
EASY TO INSTALL**

**ALUMINUM
RATHER THAN
COPPER AND PLASTIC**

**EASILY TAILORED
TO FIT ALL NEW AI
CHIPS AND RACKS**

***PROVEN ENERGY
SAVINGS***

TRACTION: COMPUTING HARDWARE & CHIP TESTING

1. **SOLD PROTOTYPES AT SILICON VALLEY AI CHIP/SERVER COMPANY (\$250MLN RAISED).**
2. **SOLD PROTOTYPES TO LEADING CHIP TEST COMPANY IN TAIWAN WORKING FOR NVIDIA.**
3. **CONSULT FOR AI CHIP MANUFACTURER (>\$740MLN RAISED) COMPETING WITH NVIDIA.**
4. **SETTING UP COOLRACKS TESTING WITH CLOUD PROVIDER (CANADA).**
5. **IN NEGOTIATIONS WITH CONTRACT SERVER FABRICATOR IN TAIWAN FOR NVIDIA.**
6. **LOOKING TO GET OUR THIN PHPs INSIDE LAPTOPS (ACER, TAIWAN).**



JJ COOLING: THE ONLY PASSIVE TWO-PHASE COOLING COMPANY GLOBALLY

OVER NEXT 18 MONTHS, WE ARE RAISING 10 MILLION CHF:

- **COOLING MARKET:** **\$30BILLION/YEAR SPENT ON DATACENTER COOLING BY 2030.**
- **COMPANY FORECAST:** **HIGHLY PROFITABLE BUSINESS WITH OVER 100MILLION CHF ANNUAL SALES WITHIN 5-7 YEARS.**
- **GAME CHANGER:** **JJ COOLING HAS THE CRITICAL TECHNOLOGY TO MAKE DATACENTERS WAY MORE ENERGY-EFFICIENT.**

AI DATACENTER PASSIVE COOLING TECH: ONLY JJ COOLING

**JJ COOLING INNOVATION SÀRL
EPFL INNOVATION PARK, LAUSANNE**

CONTACT: JOHN THOME (PROF. EMERITUS, EPFL)

E-MAIL: JOHN.THOME@JJCOOLING.COM

CELL PHONE: +41 79 4756030

WEB: WWW.JJCOOLING.COM

VISIT US IN:

EPFL Innovation Park, Building A
CH-1015, Lausanne, Switzerland

