



**COMPANY
PROFILE**



*Day after day, we are building our future
– which for us is today, not tomorrow: this
is the only way to rise to, and overcome,
the challenges posed by the market.*

Mauro Mantovan
Co-founder of HiRef S.p.A.



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HiRef

HiRef was born in 2001 with the aim of revolutionising cooling technology **for technological infrastructures.**

Ever since our beginnings, we have stood out for our innovative approach adopted in the **HVACR sector** to facilities such as data centers, factories and telecommunication hubs, focusing on **tailor-made solutions.**

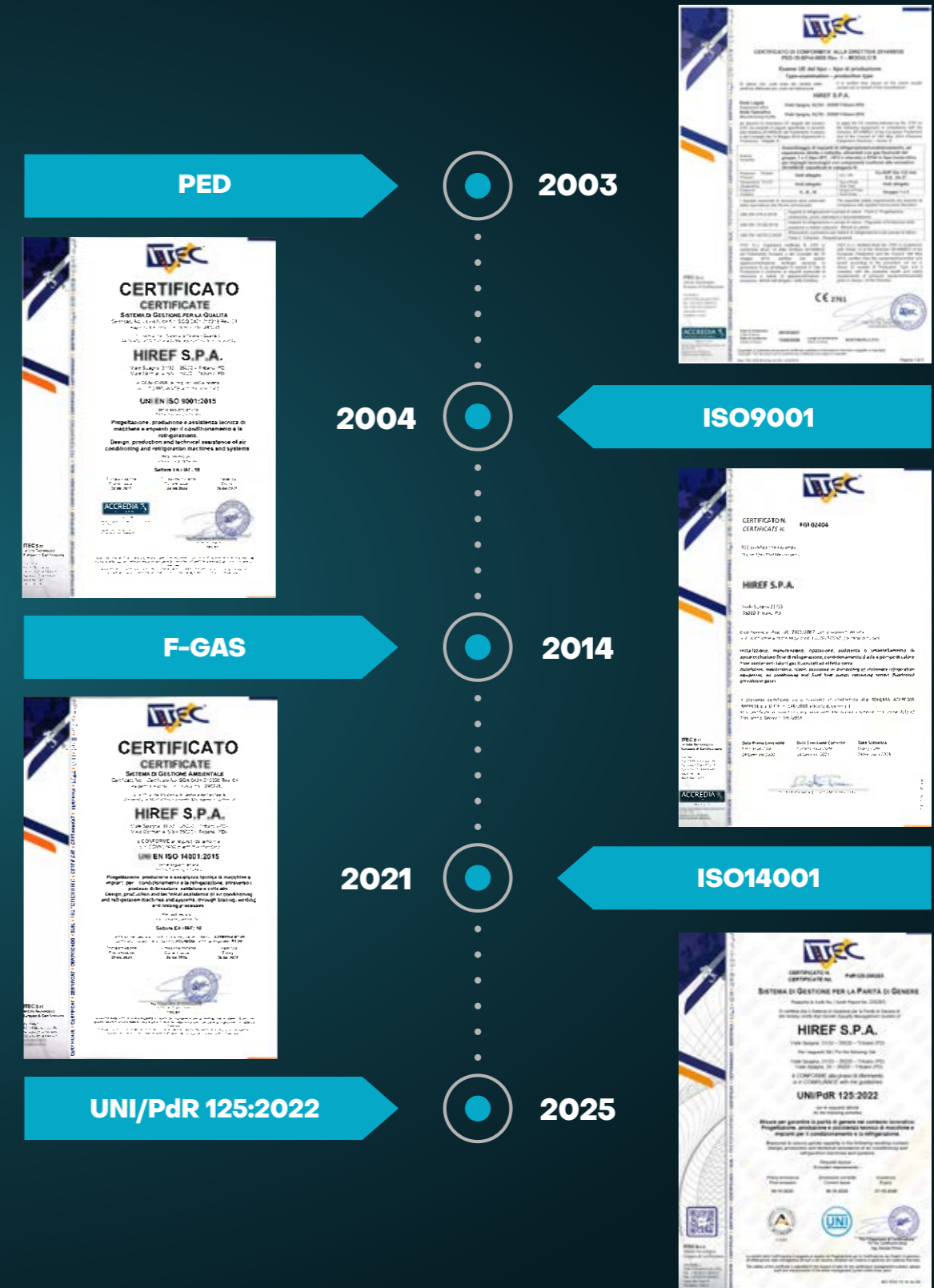
Our goal is clear: to be leaders in cutting-edge cooling innovation, combining **energy efficiency and sustainability.**

We currently employ more than **200 people** and are committed to ensuring compliance with **the highest quality standards**, ISO9001 certified.

Our forward-looking approach allows us to go beyond the standards, offering products and services that reflect our commitment to excellence and customer satisfaction.

For us, **innovating today** means building a **sustainable tomorrow.**

CERTIFICATIONS



HiWorld

HiRef

Innovators above the standards

HiRef, our parent company, was created to offer air conditioning solutions for hi-tech environments and "tailor made" designs for the services sector.

TECNO REFRIGERATION

Tecno Refrigeration offers flexibility and expertise in commercial refrigeration and in the maritime and railway sectors. Competence centre for CO₂ refrigerant, a natural fluid chosen by the HiWorld group to respond to today's growing needs for sustainability and efficiency.

eneren

your future-proof choice

Eneren focuses on geothermal and residential air conditioning systems. The company can offer technological efficiency and consulting skills, promoting the adoption of sustainable energy systems.

2007

2001

2001

2007

IT.MET

Modelling sheet metal

IT Met offers lightweight steelwork in steel, stainless steel and aluminium, customised control panels and containment boxes for Data Centers. It delivers cutting-edge production systems to its customers and develops own brand products to provide customised solutions.

HiDew Dehumidifiers

HiDew brings its know-how to the dehumidification sector, with special reference to the production of dehumidifiers designed to be combined with residential radiant systems, industrial and swimming pool dehumidifiers.

2011

2013

ECAT

powering your ideas

ECAT creates electrical switchboards for industrial automation and on-board machines. It designs and supplies LV electrical switchboards and software for industrial PLCs.

DataDom

DataDom is a company specialising in the design, construction and management of prefabricated technological infrastructure, offering cutting-edge solutions to meet today's growing needs for modularity, fast turnaround times and economic and construction efficiency.

2025

2019

HIREENGINEERING

HiRef Engineering, a project design support company, is a reliable partner for tailor-made general contracting solutions in the residential, data center, industrial, retail, swimming pool and hospitality sectors.

COMPETITIVE ADVANTAGES

CUSTOMISATION

We develop tailor-made solutions, adapting them to the specific needs of each customer to ensure maximum efficiency and optimal performance.

INNOVATION

We ensure a fast turnaround of advanced system designs, applying the most innovative technologies to offer cutting-edge solutions.

TCO OPTIMIZATION

We analyse direct and indirect costs to offer economically sustainable solutions, reducing the Total Cost of Ownership in the long term.

EFFICIENCY

We optimise energy consumption with high-efficiency solutions, reducing PUE in data centers and implementing intelligent control systems to improve performance.

INTEGRATION

Our solutions integrate seamlessly into our customers' projects, helping to increase their overall value and operational effectiveness.

LOW GWP

We use low GWP refrigerants to reduce environmental impact, while ensuring high performance and compliance with the most advanced industry regulations.

WE GO BEYOND

Our VISION

We envision a future where **HVACR solutions will be central to sustainable development**, contributing to the reduction of environmental impact and the intelligent use of resources. We want to be at the forefront of change, offering technologies that support **responsible growth**.

Our MISSION

We design and manufacture **technologically advanced solutions** in the HVACR sector, customised to meet the specific needs of data centers, telecommunications and industrial applications. Thanks to intra-group cooperation, we can integrate multidisciplinary skills to offer **highly efficient and reliable systems**. Our commitment is toward ensuring **continuous innovation and top-class technical support**, building long-lasting and trust-based relationships with our customers and partners.



ENERGY LOOP DISTRICT



Advanced heat
recovery solutions
for a zero-impact
ecosystem



SUSTAINABILITY

For HiRef, our **sustainability report** is a manifesto of corporate social accountability, reflecting the **company's commitment to integrating ethical, social and environmental values** into the management of our activities.

Its purpose is to communicate transparency to stakeholders, monitor the impacts generated and promote a **culture of sustainable development**.

It is a strategic tool to enhance trust and credibility in the marketplace.

Read our Sustainability Report:



Following the United Nations Sustainable Development Agenda, we have identified the objectives to which we believe we can positively contribute.



OPERATING IN THE FOLLOWING SECTORS:

DATA CENTERS



View our projects in the DATA CENTER sector

INDUSTRY



View our projects in the INDUSTRIAL sector

SHELTER and TLC



View our projects in the SHELTER and TLC sector

SERVICES



View our projects in the SERVICES sector

DATA CENTERS

HiRef IT air conditioning solutions are based on optimisation criteria aimed at achieving energy efficiency and lowering consumption and overheads.

Our products are designed for the most critical technological scenarios

- Hyperscale
- Modular
- Edge
- Micro Data Center



TRF
DIRECT EXPANSION OR CHILLED WATER PERIMETER-MOUNTED UNITS FOR DATA CENTERS



NRG
AIR CONDENSED PERIMETER MOUNTED UNITS FOR DATA CENTRES WITH MODULATING COMPRESSORS



JREF
CHILLED WATER PERIMETER-MOUNTED UNITS FOR DATA CENTERS



NRCD/NRCV
DIRECT EXPANSION AIR CONDITIONERS FOR HIGH DENSITY RACKS WITH MODULATING COMPRESSORS



HRCC
CHILLED WATER AIR CONDITIONING UNITS FOR HIGH POWER DENSITY RACKS



FanWall
CHILLED WATER OR DIRECT EXPANSION FANWALL AIR CONDITIONERS FOR HIGH DENSITY HYPERSCALE DATA CENTERS



CDU
COOLANT DISTRIBUTION UNITS FOR HIGH DENSITY HYPERSCALE DATA CENTERS



RDC
REAR DOOR COOLING FOR HIGH DENSITY HYPERSCALE DATA CENTER



MRAC
MINI RACK COOLER FOR HIGH DENSITY SYSTEM



DataBatic
AIR-TO-AIR SYSTEM FOR DATA CENTERS WITH ADIABATIC SYSTEM



HDC
MODULAR DRY COOLER FOR HIGH DENSITY HYPERSCALE DATA CENTER



HINODE
ADVANCED TECHNOLOGY AND FLEXIBILITY TO MANAGE AIR CONDITIONING AND PROCESS COOLING

SHELTER eTLC

HiRef provides cutting-edge cooling solutions for the telecommunications industry, designed to ensure operational continuity and reliability in the most demanding environments.

HiRef products are designed to meet the needs of critical technological infrastructures such as: Telecommunication base stations

- Network support Data Centers
- Outdoor and indoor applications for data transmission



HTS/NTS
SPLIT UNITS WITH ON/OFF OR MODULATING COMPRESSORS FOR SHELTERS DESIGNED FOR IT EQUIPMENT



HTD/U/X NTD/U/X
INDOOR MODULATING ON/OFF OR MONOBLOC UNITS FOR SHELTERS DESIGNED FOR IT EQUIPMENT



NTG
INDOOR MONOBLOC UNIT WITH MODULATING COMPRESSORS FOR SHELTERS DESIGNED FOR IT EQUIPMENT - DISPLACEMENT VERSION



HTW/HTWD NTW/NTWD
OUTDOOR MONOBLOC UNIT WITH ON/OFF OR MODULATING COMPRESSORS FOR SHELTERS DESIGNED FOR IT EQUIPMENT



HTR/NTR
ROOFTOP AIR CONDITIONING UNIT WITH ON/OFF OR MODULATING COMPRESSORS FOR CONTAINERS



FCB
DIRECT FREE-COOLING UNIT FOR SHELTERS DESIGNED FOR TECHNOLOGICAL EQUIPMENT

CHILLER and HEAT PUMPS

We deal with industrial process cooling in the following sectors:

- Food & Beverage
- Metalworking
- Chemical & Pharmaceutical
- Sanitary

	TSE CHILLERS WITH REMOTE CONDENSER WITH SCROLL COMPRESSORS		NHA CHILLERS AND HEAT PUMPS AIR CONDENSED WITH SCROLL COMPRESSORS		MPS MULTIPURPOSE AIR CONDENSED HEAT PUMPS FOR LOW OUTDOOR TEMPERATURES		CDA AIR-COOLED CHILLERS AND HEAT PUMPS WITH NATURAL REFRIGERANT R744 (CO ₂) AND MODULATING COMPRESSORS
	TVA/TVD AIR CONDENSED CHILLERS WITH INVERTER DRIVEN SCREW COMPRESSORS		HPS REVERSIBLE AIR CONDENSED HEAT PUMPS FOR LOW OUTDOOR TEMPERATURES		MPA MULTIPURPOSE CLASS A AIR CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS		ZSW WATER/WATER HEAT PUMPS FOR HIGH EVAPORATION AND CONDENSATION TEMPERATURES
	TTX AIR CONDENSED CHILLERS WITH OIL-FREE CENTRIFUGAL COMPRESSORS		HWC/HWP AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS FOR INDOOR INSTALLATIONS		MSL MULTIPURPOSE CLASS A HEAT PUMPS AIR CONDENSED WITH SCROLL COMPRESSORS		KVV HIGH TEMPERATURE HEAT PUMPS WITH TWO-STAGE COMPRESSORS
	XTW WATER-CONDENSED CHILLERS WITH OIL-FREE CENTRIFUGAL COMPRESSORS		TSS/TAS CHILLERS AND HEAT PUMPS AIR CONDENSED WITH SCROLL COMPRESSORS		MLA MULTIPURPOSE CLASS A AIR CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS		XVA K HEATING-ONLY WATER CONDENSED HEAT PUMPS WITH INVERTER DRIVEN SCREW COMPRESSORS
	XVA WATER CONDENSED CHILLERS AND HEAT PUMPS WITH SCREW COMPRESSORS		MHA AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL BLDC INVERTER COMPRESSORS		NPA MULTIPURPOSE AIR CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS		PLM POLYMORPH HYDRONIC MODULES FOR WATER/WATER CHILLERS SYSTEMS
			TPS AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS		KSW WATER/WATER HEAT PUMPS FOR HIGH EVAPORATION AND CONDENSATION TEMPERATURES		XSB WATER CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS
			TSL/TAL CLASS A CHILLERS AND HEAT PUMPS AIR CONDENSED WITH SCROLL COMPRESSORS		MSW MULTIPURPOSE WATER-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS		PSW/RSW WATER-COOLED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS
			TPL AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS				

SERVICES

FAT

(Factory Acceptance Test)
supervised performance test

PRE SALE

Design support
(HiRef Engineering)
CFD Analysis

POST SALE

Installation
Commissioning
Technical assistance and preventive
maintenance
Easily available, prompt intervention
Extended warranties
Remote monitoring
Upgrades and retrofits

SPARE PARTS

Hyper Lab

FAT Factory
Acceptance
Test



During **FATs**, products are inspected to check that they meet the technical requirements, contract specifications and functions correctly under simulated conditions, thus ensuring the **quality and reliability** of end products.

To be able to offer **HIGH QUALITY AFTER-SALES SERVICE**, we have set up HiRef Service.

It's a technical team which, with over **70 authorised service centres in Italy** and more than **60 distributors worldwide**, offers guaranteed fast response from the time of delivery throughout installation, management and maintenance of the plants.



Maintenance is a **strategic investment** that ensures machine long-term performance and prevents any unexpected costs.

Our **MADE IN ITALY** designs available world-wide



IN ITALY

Widespread presence of regional sale agencies and authorised service centres nation-wide.

WORLDWIDE

Subsidiaries and distributors active in many geographical areas, including LATAM and EMEA.





We develop relationships

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