



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**.

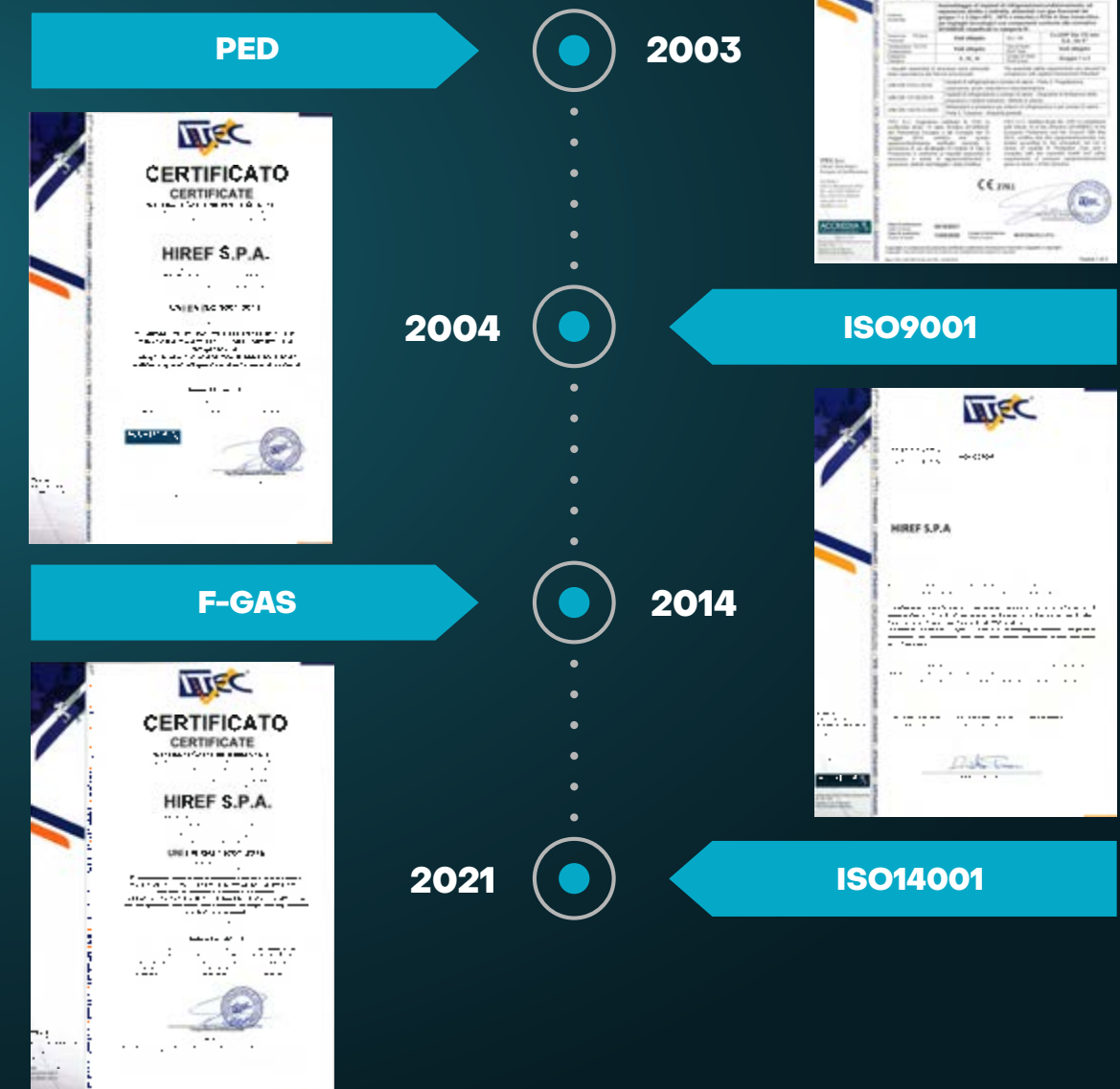
Our goal is clear: to be leaders in cutting-edge cooling innovation, combining **energy efficiency and sustainability**.

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

2007

IT.NET

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

2011

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.

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.

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.

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

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.



HiRef

OPERATING IN THE FOLLOWING SECTORS:

DATA CENTERS



View our projects in the
DATA CENTER sector

INDUSTRY



View our projects in the
INDUSTRIAL sector

TLC



View our projects in
the 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



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



HDC
MODULAR DRY COOLER FOR HIGH DENSITY HYPERSCALE DATA CENTERS



TVA
AIR CONDENSED CHILLERS WITH INVERTER DRIVEN SCREW COMPRESSORS



XVA
WATER CONDENSED CHILLERS AND HEAT PUMPS WITH INVERTER DRIVEN SCREW COMPRESSORS

TELECOM

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

INDUSTRIAL SERVICES

We deal with industrial process cooling in the following sectors:

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



PCC
AIR CONDENSED CHILLERS FOR INDUSTRIAL PROCESSES



TSE
CHILLERS WITH REMOTE CONDENSER WITH SCROLL COMPRESSORS



CDA
AIR-COOLED CHILLERS WITH NATURAL REFRIGERANT R744 (CO₂) AND MODULATING COMPRESSORS - COLD ONLY VERSION



TVA
AIR CONDENSED CHILLERS WITH INVERTER DRIVEN SCREW COMPRESSORS



TTX
AIR COOLED CHILLERS WITH OIL-FREE CENTRIFUGAL COMPRESSORS



HCB
AIR CONDENSED CHILLERS WITH INVERTER DRIVEN SCREW COMPRESSORS, COLD ONLY VERSION



PURE
AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS



HPS
REVERSIBLE AND MULTI-PURPOSE AIR CONDENSED HEAT PUMPS FOR LOW OUTDOOR TEMPERATURES



HWC/HWP
AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS FOR INDOOR INSTALLATIONS



TSS/TAS
AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS



MHA
AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL BLDC INVERTER COMPRESSORS



TPS
AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS



TSL/TAL
CLASS A AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS



TPL
AIR CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS



MPS
REVERSIBLE AND MULTI-PURPOSE AIR CONDENSED HEAT PUMPS FOR LOW OUTDOOR TEMPERATURES



MPL
CLASS A MULTIPURPOSE AIR-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS FOR INDOOR INSTALLATION



MPA
CLASS A MULTIPURPOSE AIR-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS



MSL
CLASS A MULTIPURPOSE AIR-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS



MLA
CLASS A MULTIPURPOSE AIR-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS



NPA
MULTIPURPOSE AIR-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS



KSW P
MULTIPURPOSE WATER-CONDENSED HEAT PUMPS FOR HIGH TEMPERATURES, USER SIDE AND SOURCE SIDE



MSW
MULTIPURPOSE WATER-CONDENSED HEAT PUMPS WITH SCROLL COMPRESSORS



XTW
WATER COOLED CHILLERS WITH OIL-FREE CENTRIFUGAL COMPRESSORS



XVA
WATER CONDENSED CHILLERS AND HEAT PUMPS WITH INVERTER DRIVEN SCREW COMPRESSORS



KSW
WATER-CONDENSED HEAT PUMPS FOR HIGH EVAPORATION AND CONDENSATION TEMPERATURES



KVV
HIGH TEMPERATURE HEAT PUMPS WITH TWO-STAGE COMPRESSORS



XVA K
WATER CONDENSED HEAT ONLY HEAT PUMPS WITH INVERTER DRIVEN SCREW COMPRESSORS



PLM
POLYMORPH HYDRONIC MODULES FOR WATER-CONDENSED CHILLER SYSTEMS



XSA/XSB
WATER CONDENSED CHILLERS AND HEAT PUMPS WITH SCROLL COMPRESSORS



PSW/RSW
MULTIPURPOSE WATER-CONDENSED 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

Italy – Tribano, PD
Headquarters

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.

HiRef
Service

HiRef
Authorized Distributor

HiRef
Centro Assistenza Autorizzato



**We develop
relationships**

HiRef S.p.A.

Viale Spagna, 31/33
35020 Tribano
(Padua) Italy

Ph: [+39 049 9588511](tel:+390499588511)

Fax: [+39 049 9588522](tel:+390499588522)

info@hiref.it

hiref.com