



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.

”



HIREF

2

CERTIFICATIONS

3

HIWORLD

4

COMPETITIVE ADVANTAGES

6

VISION AND MISSION

8

ENERGY LOOP DISTRICT

10

SUSTAINABILITY

12

SECTORS

14

PRODUCTS

16

SERVICES

20

HIREF SERVICE

22



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.**

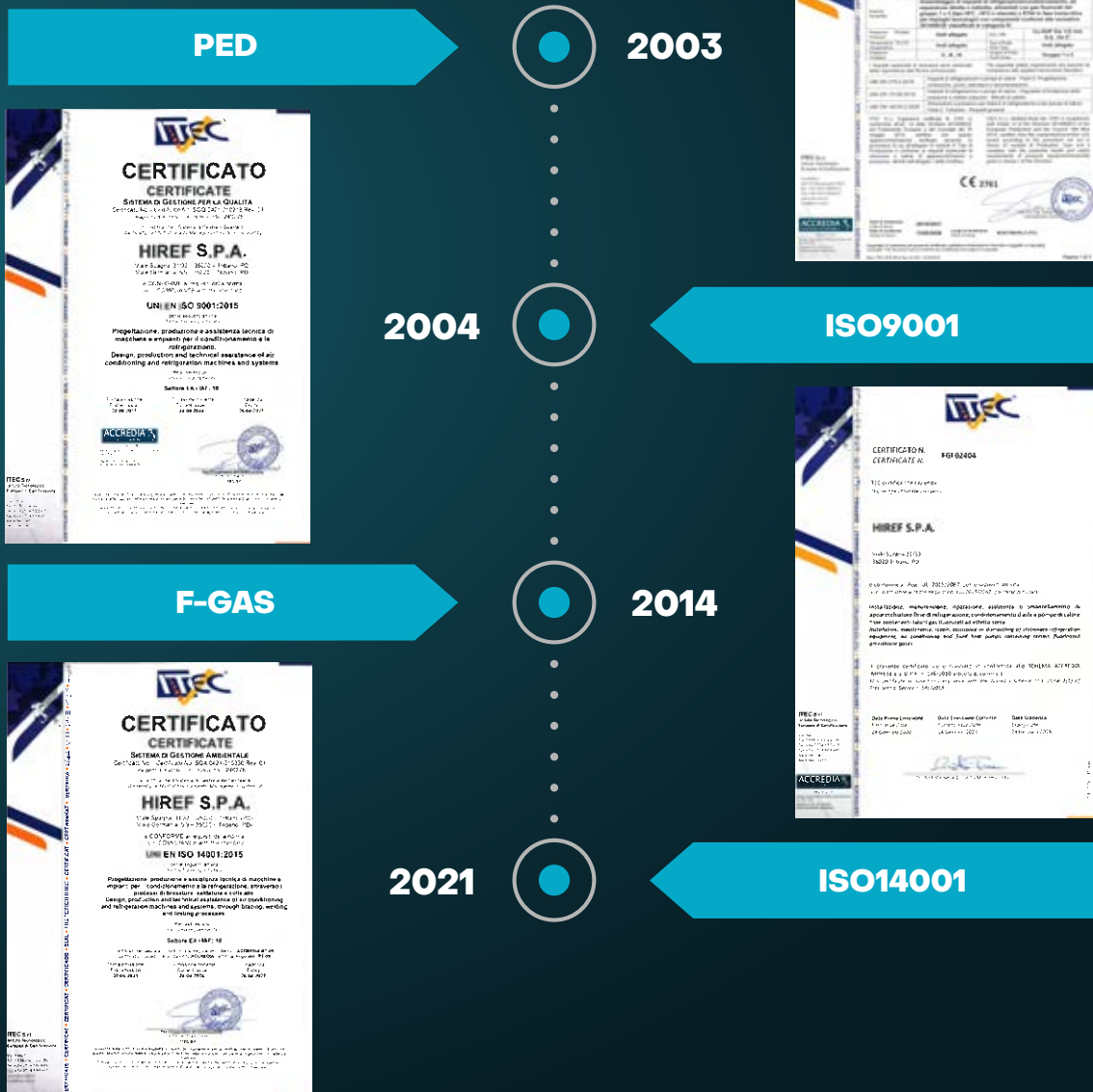
We currently employ more than **200 people** and are committed to ensuring compliance with **the highest quality standards**, ISO9001 certified.

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.**

iRef

CERTIFICATIONS



HiWorld

HiR
Inno
the s

HiRef, our parent company,
to offer air conditioning s
hi-tech environmen
"tailor made" designs for the

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.

2001

2001

2007

2011

HiDe
Dehumidifie

HiDew brings its know
dehumidification sector, with
to the production of dehum
to be combined with resident
industrial and swimming po

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

Ref

innovators above standards

was created solutions for ts and services sector.

IT.MET

Modelling sheet metal

2007

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.

ECAT

powering your ideas

2013

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

HIREENGINEERING

2019

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.

COMPLETE ADVANCE

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.

COMPETITIVE ADVANTAGES

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**

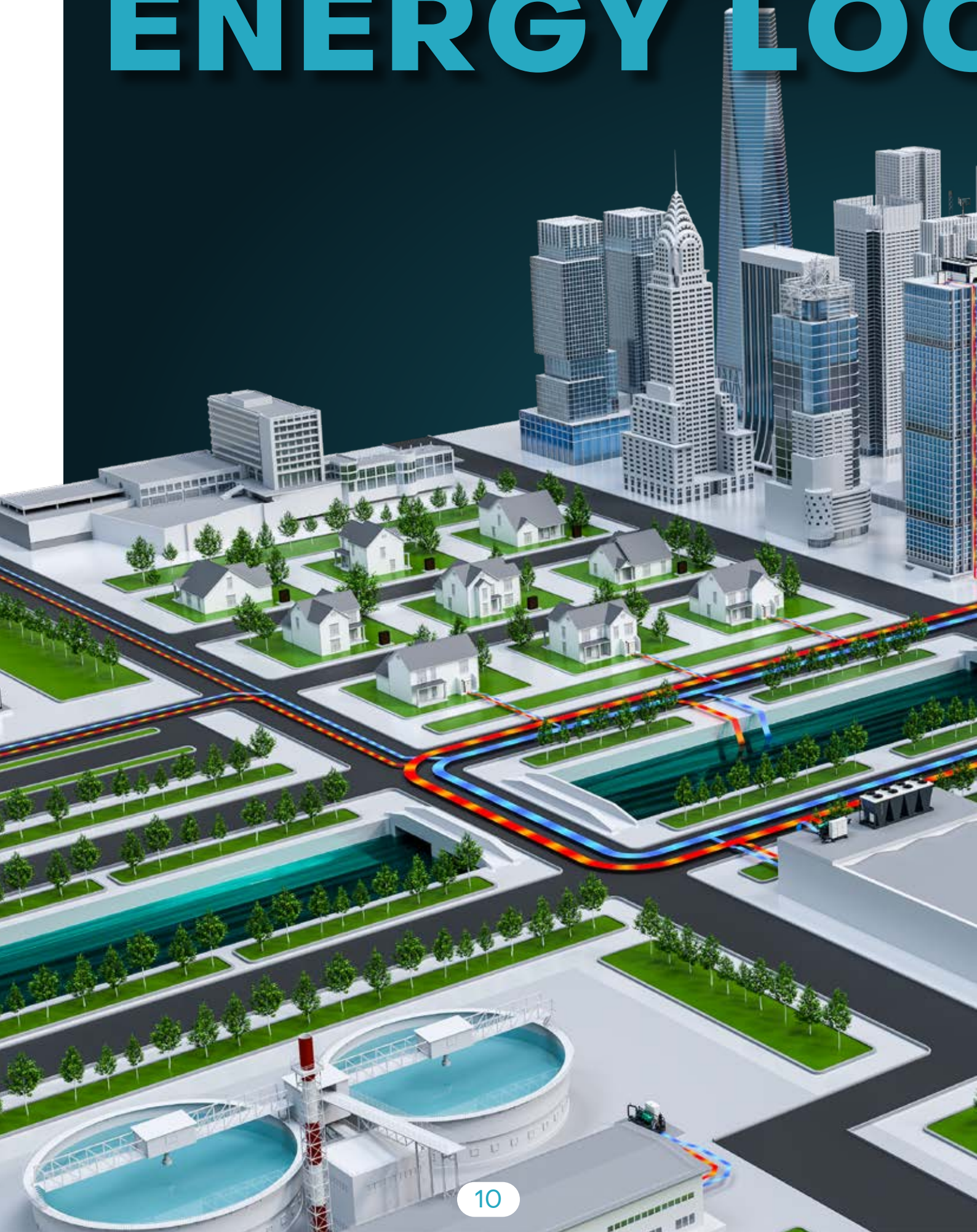
We envision a future where **HVACR solutions will be central to sustainable development**, contributing to the reduction of environmental impact and the intelligent use of resources. We want to be at the forefront of change, offering technologies that support **responsible growth**.

Our **MISSION**

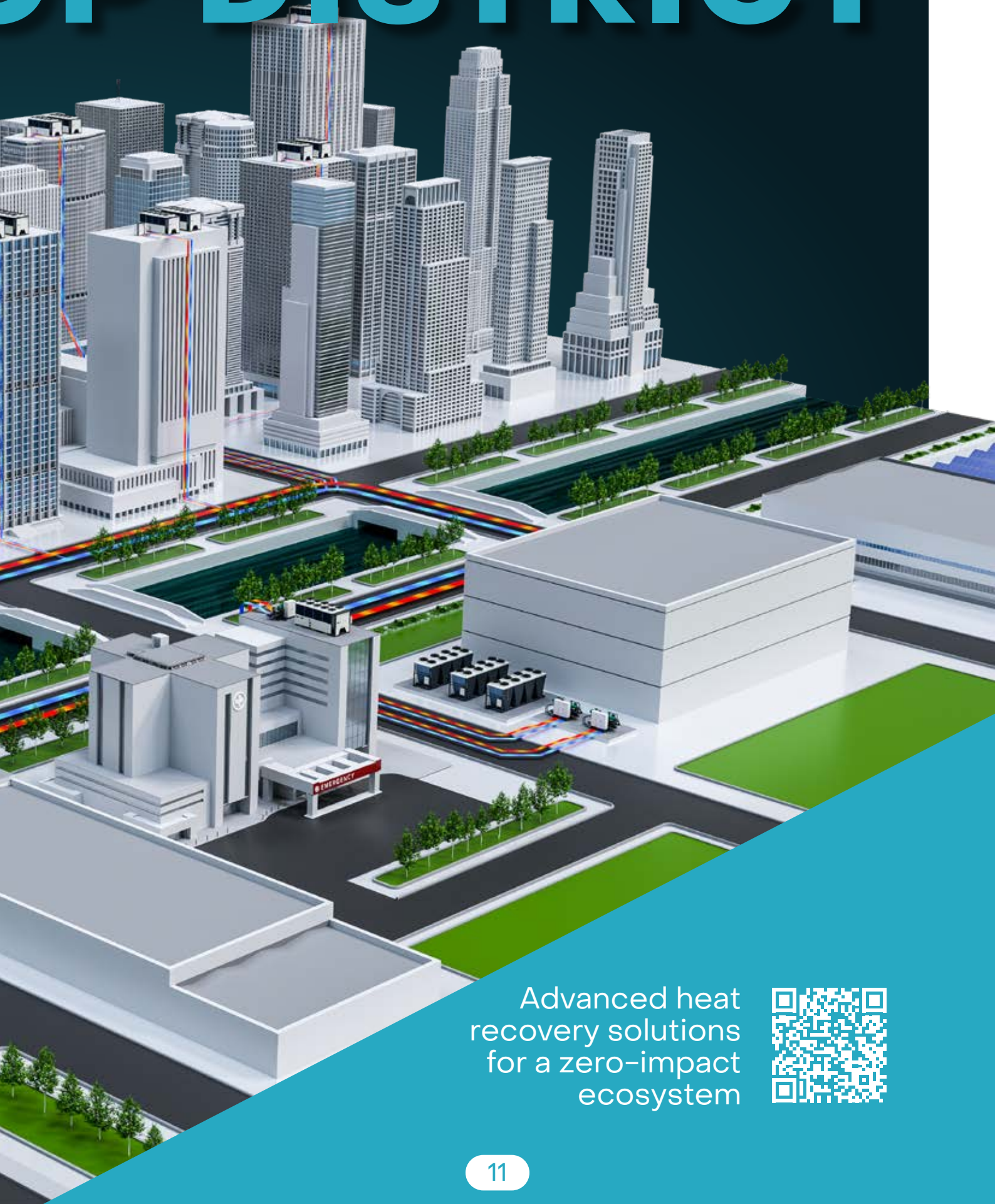
We design and manufacture **technologically advanced solutions** in the HVACR sector, customised to meet the specific needs of data centers, telecommunications and industrial applications. Thanks to intra-group cooperation, we can integrate multidisciplinary skills to offer **highly efficient and reliable 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 LOC



OP DISTRICT



Advanced heat
recovery solutions
for a zero-impact
ecosystem



SUSTAIN

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:



LIABILITY

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



OPERATING IN THE FC

DATA CENTERS



**View our projects in the
DATA CENTER sector**

TLC



**View our projects in
the TLC sector**

Ref FOLLOWING SECTORS:

INDUSTRY



View our projects in the
INDUSTRIAL 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



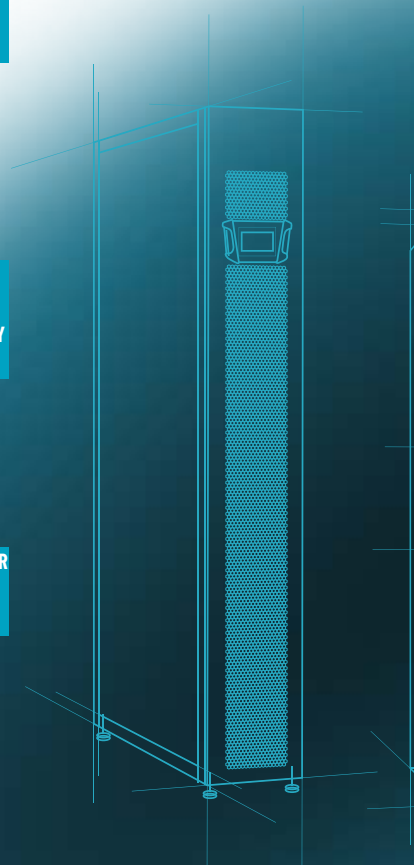
FanWall

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



CDU

COOLANT DISTRIBUTION UNITS FOR HIGH DENSITY HYPERSCALE DATA CENTERS



ataBatic

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

DC

MODULAR DRY COOLER FOR HIGH
DENSITY HYPERSCALE DATA
CENTERS

VA

R CONDENSED CHILLERS
WITH INVERTER DRIVEN SCREW
COMPRESSORS

VA

ATER CONDENSED CHILLERS
AND HEAT PUMPS WITH INVERTER
DRIVEN SCREW COMPRESSORS

COOL

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



PUR

AIR CONDENSED CHILLERS WITH HEAT PUMP AND COMPRESSOR



HPS

CHILLERS WITH REMOTE CONDENSER WITH SCROLL COMPRESSORS



HWC

AIR-COOLED CHILLERS WITH HEAT PUMP AND COMPRESSOR - INSTALLATION



TSS

AIR CONDENSED CHILLERS WITH HEAT PUMP AND COMPRESSOR



MHA

AIR CONDENSED CHILLERS WITH HEAT PUMP AND INVERTER



TPS

AIR CONDENSED CHILLERS WITH HEAT PUMP AND COMPRESSOR



TSL

CLASS A CHILLERS WITH SCROLL COMPRESSOR



TPL

AIR CONDENSED CHILLERS WITH HEAT PUMP AND COMPRESSOR

E
CONDENSED CHILLERS AND
PUMPS WITH SCROLL
COMPRESSORS



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



XTW
WATER COOLED CHILLERS
WITH OIL-FREE CENTRIFUGAL
COMPRESSORS

E
CONDENSED CHILLERS AND
PUMPS WITH SCROLL
COMPRESSORS FOR
INDOOR TEMPERATURES

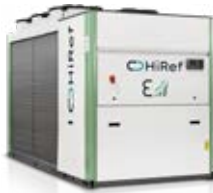


MPL
CLASS A MULTIPURPOSE AIR-
CONDENSED HEAT PUMPS WITH
SCROLL COMPRESSORS FOR
INDOOR INSTALLATION



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

C/HWP
CONDENSED CHILLERS AND
PUMPS WITH SCROLL
COMPRESSORS FOR INDOOR
INSTALLATIONS



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



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

TAS
CONDENSED CHILLERS AND
PUMPS WITH SCROLL
COMPRESSORS



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



KVW
HIGH TEMPERATURE HEAT PUMPS
WITH TWO-STAGE COMPRESSORS

E
CONDENSED CHILLERS AND
PUMPS WITH SCROLL BLOC
COMPRESSORS



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



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

E
CONDENSED CHILLERS AND
PUMPS WITH SCROLL
COMPRESSORS



NPA
MULTIPURPOSE AIR-CONDENSED
HEAT PUMPS WITH SCROLL
COMPRESSORS



PLM
POLYMORPH HYDRONIC MODULES
FOR WATER-CONDENSED CHILLER
SYSTEMS

TAL
AIR CONDENSED
CHILLERS AND HEAT PUMPS WITH
SCROLL COMPRESSORS



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



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

E
CONDENSED CHILLERS AND
PUMPS WITH SCROLL
COMPRESSORS



MSW
MULTIPURPOSE WATER-
CONDENSED 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.



AUTHORIZED TECHNICAL CENTERS

We manage a network of over 70 Technical Assistance Centers in Italy.



FAST SERVICE

8 people for remote technical support and 4 in-house teams of certified technicians.



QUALITY

We operate exclusively with certified technicians to provide the best possible support.



SPARE

A wide range of spare parts for our plants.

HiRef Service



MAINTENANCE PLANS

Efficient machines, regular support, and reduced costs.



24/7

Quick response and urgent interventions available on-call.



MONITORING

Thanks to the HiView platform, we can monitor your system and intervene promptly.




SPARE PARTS

Range of original parts for all products.

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

Our **MADE IN ITALY** world

A map of Italy is shown, composed of a dense field of small blue dots. Overlaid on this map are several white location pins with black outlines. One pin is located in the northern part of Italy, with a line connecting it to the text 'Italy - Tribano, PD' and 'Headquarters'. Another set of pins is clustered in the southern part of Italy. A few more pins are visible on the right side of the map, extending towards the edge of the frame.

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.

Y designs available -wide





**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