

Uniflair Chillers

e-Catalog 2026

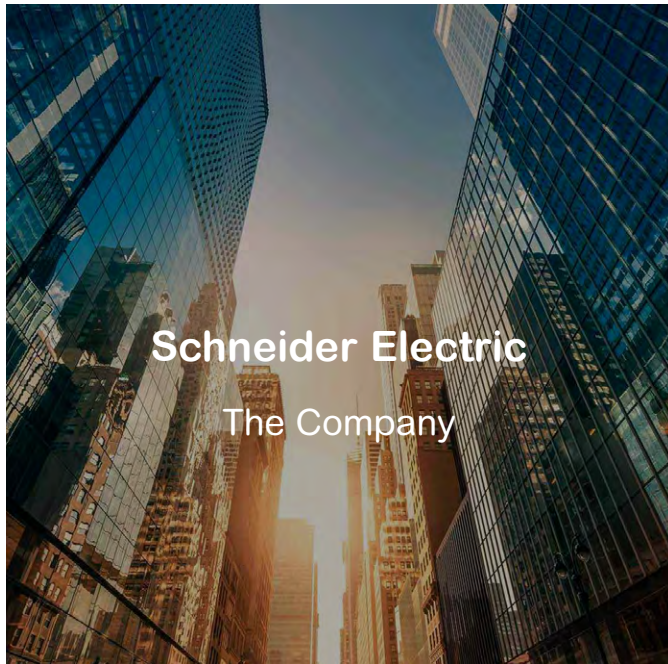
High performance chillers for technical cooling applications

vers 2.0

se.com



Schneider
Electric



Schneider Mission

Our mission is to be the trusted partner in Sustainability and Efficiency



What we offer

We are a global industrial technology leader bringing world-leading expertise in electrification, automation and digitization to smart industries, resilient infrastructure, future-proof data centers, intelligent buildings, and intuitive homes. Anchored by our deep domain expertise, we provide integrated end-to-end lifecycle AI enabled Industrial IoT solutions with connected products, automation, software and services, delivering digital twins to enable profitable growth for our customers.

Why we do it

We believe access to energy and digital is a basic human right. Our generation is facing a tectonic shift in energy transition and industrial revolution catalyzed by a more electric world. Electricity is the most efficient and best vector for decarbonization; combined with circular economy approach solutions, we will achieve climate-positive impact as part of the United Nations Sustainable Development Goals.

Where we operate

We are one integrated company. We are the most local of global companies. Our multi-hub approach is a key element to offer improved resiliency, agility and proximity to our customers and suppliers.

We are an impact company

This means sustainability is at the core of everything we do, in line with our purpose.

Our four hubs

Our business

100+

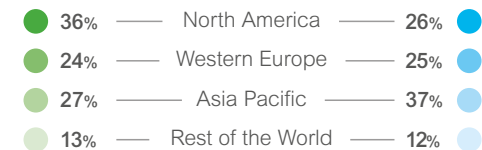
Countries

€38,2bn

Revenue by geography in 2024

177K

Total employees by geography in 2024*



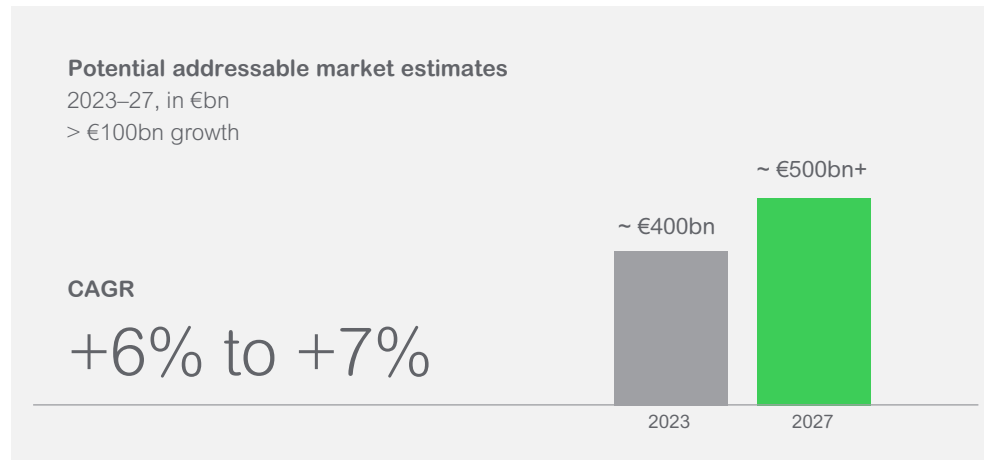
*The total average workforce includes non-employee interim workers.

Schneider Mission

A future worth investing in

Well positioned on structurally growing markets

The end-markets we serve are in an accelerated growth phase as a function of the five megatrends. An addressable market of around EUR 400 billion in 2023 is set to grow at a compound annual growth rate (CAGR) of between +6% and +7% between 2023 and 2027, to reach in excess of around EUR 500 billion by 2027.



Four pillars

Schneider Electric is characterized by a number of key markers and strengths which make us unique. These elements combine together to allow us to successfully execute on our strategy and serve our customers.

Technology leader

- The Digital Flywheel enhances recurring revenue and provides a compelling value proposition to customers.
- From EcoStruxure to CONNECT: A complete digital architecture for the benefit of customers.
- Accelerating the pace of innovation through our future-ready R&D program

Customer Centric

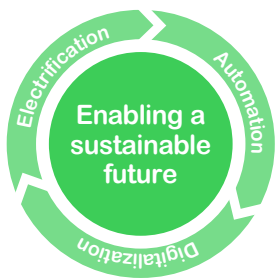
- Key 2024 innovation offers across both businesses with more to come in 2025.
- Committed to a unique ecosystem based on long-term partnerships.
- Customer centric integrated service offers to address.
- Capex to Opex to Recurring Experience.

Impact Company

- Leading ESG in our ecosystem.
- Commit to a Net-zero CO2 value chain by 2050.
- Recognized by TIME magazine and Statista as "World's Most Sustainable Company".

People Company

- Defined by our unique culture and model.
- Committed to a Multi-hub operating model decentralized for people empowerment.
- Committed to our people & culture leading us into new frontiers.



Environment

154

Number of zero-CO₂ sites

The planet and local communities

53.4M

People provided access to green electricity since 2009

Partners and suppliers

650k+

Service provider and partner ecosystem

For our employees

62%

Of eligible employees benefiting from 2024 share plan

Financial strength

A/A-1 & A3

Strong investment grade credit rating

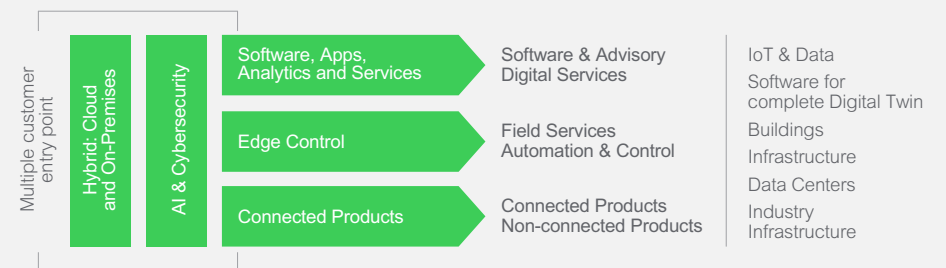
For our shareholders

+48%

3-year Total Shareholder Return, from January 1, 2022 to December 31, 2024



Design, Build, Operate & Digital Twin



Business

The Next Frontier



Our unique portfolio is best equipped for growth on themes enabling a sustainable future

We have curated our portfolio to become a powerhouse in electrification and digitalization, driving sustainability and efficiency for customers across end-markets.

Digital
 Electric

+

=

Sustainable
 green and smart



Megatrends driving The Next Frontier

We identify five megatrends that will drive the expansion of our addressable market and we believe that we are ideally positioned to thrive in the end-markets we serve.



Digitalization and AI



Climate Change



Energy Transition



Evolution of Wealth



New Global Equilibrium

Schneider Mission

Our 2026 sustainability commitments

With less than 10 years left to reach the 17 United Nations Sustainable Development Goals (SDGs), Schneider Electric has accelerated its impact and is making new, bold commitments to drive meaningful impact within the framework of its business activity. Schneider Electric's 6 long-term commitments are to:

Act for a **climate-positive** world

by continuously investing in and developing innovative solutions that deliver immediate and lasting decarbonization in line with our carbon pledge.



Be efficient with **resources**

by behaving responsibly and making the most of digital technology to preserve our planet.



Live up to our principles of **trust**

by upholding ourselves and all around us to high social, governance, and ethical standards.



Create **equal** opportunities

by ensuring all employees are uniquely valued in an inclusive environment to develop and contribute their best



Harness the power of all **generations**

by fostering learning, upskilling, and development for each generation, paving the way for the next.



Empower **local** communities

by promoting local initiatives and enabling individuals and partners to make sustainability a reality for all.



2021 – 2025 SCHNEIDER SUSTAINABILITY IMPACT

- 1. Focused**
on material issues
- 2. Disrupting**
the status quo
- 3. Transparent**
quarterly disclosure
- 4. Robust**
assured by an independent third party
- 5. Rewarding**
employees for performance

Cybersecurity

Schneider Electric approach, and commitment

Schneider Electric is the global leader in the digital transformation of energy management and industrial automation, integrating world-leading process and energy technologies for homes, buildings, **Data Centers**, critical infrastructure, and industries.

With a digital footprint that spans the globe, the company's risk landscape is constantly evolving and requires ongoing protection against cybersecurity threats and attacks. Therefore **Cybersecurity, Product Security and Data Protection** are integral to Schneider Electric's business strategy and the digital transformation journeys of its customers. Schneider Electric is committed to providing solutions that support your needs for cybersecurity protection across

all business types and industries. We apply a rigorous mindset, policies, and methodologies in the development of our products and the implementation of our solutions. Skilled and certified professionals provide vendor-agnostic services to help you assess your risk, implement cyber-specific solutions, and maintain your defenses over time at your location.

Schneider Electric recognizes that the Security of its offerings and its ability to safe guard its customers' data while complying with regulations is key to building sustainable relationships. To reach the highest level of trustworthiness, the company continuously enhances its security posture through **five** core pillars:



Cybersecurity fundamentals and awareness management

[Discover more](#)



Taking an Enterprise-Wide Risk-Based Approach management

[Discover more](#)



Raising the bar on Cyber Defense, Threat Intelligence, and Incident or Crisis Response management

[Discover more](#)



Raising Building Trust along the Supply Chain, and with the Installed Base management

[Discover more](#)



Meeting Customer and Authority Expectations management

[Discover more](#)

The company is committed to doing business responsibly and with integrity, earning and sustaining Trust in its products, systems, and services. Mitigating risks stemming from developing threats is the result of continuous dialogue and cooperation with governments, suppliers, and customers, growing resilience through collaboration.

Cooling units incorporate advanced cybersecurity standards, **"We address our customers' needs with care, ensuring compliance with cybersecurity regulations to be their trusted Security Partner"**

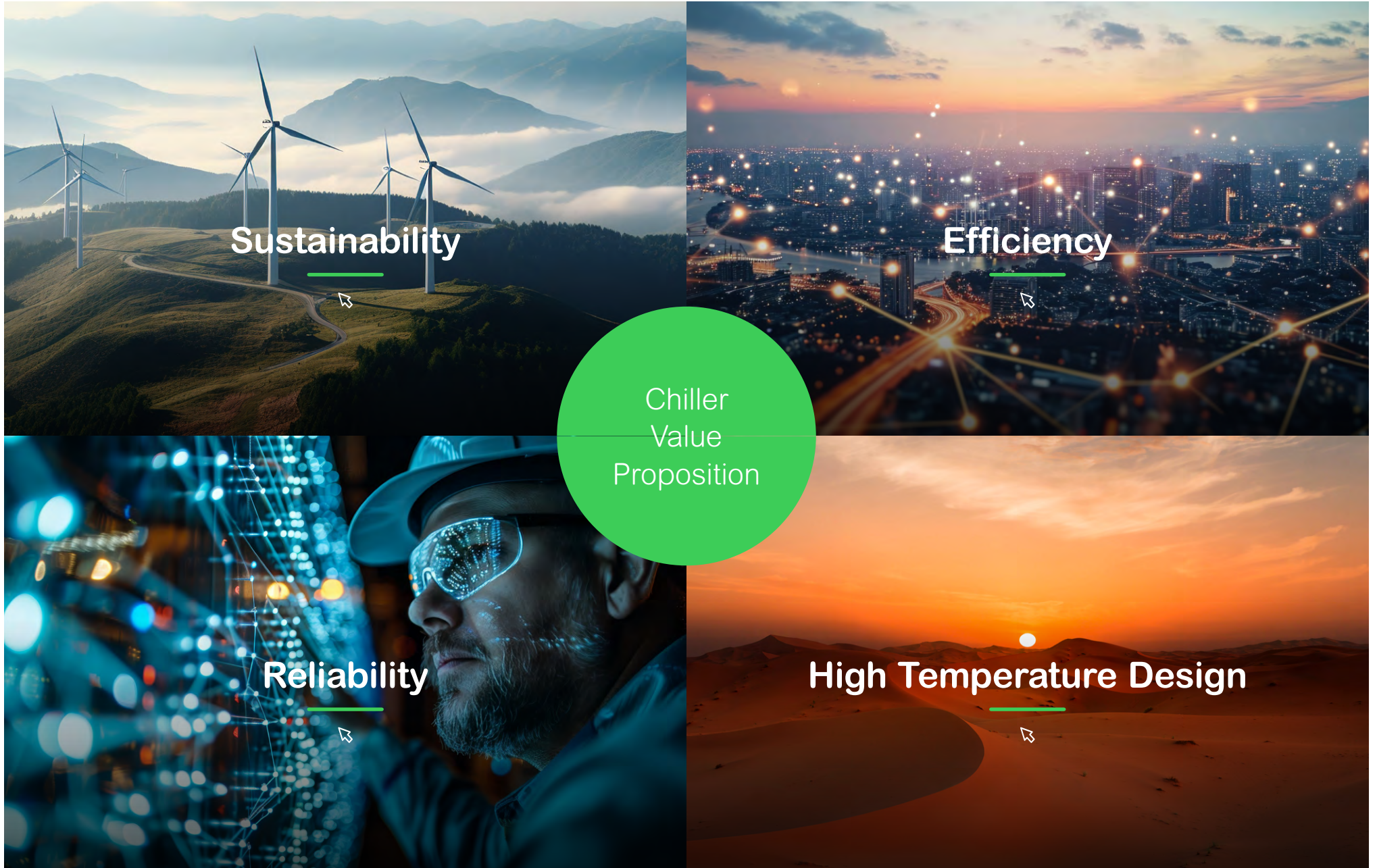


- Application security
- Data privacy
- Product security

To learn more

[Cybersecurity and Data Protection Posture](#)

[EcoStruxure IT Security](#)



Sustainability

The development that meets the needs of the present, without compromising the ability of future generations to meet their own needs.

At Schneider Electric, we are committed to providing innovative and sustainable solutions that help organizations reduce their environmental impact and operational costs. Our Uniflair Chillers are designed with eco-efficiency in mind, utilizing advanced technologies to minimize energy consumption while maintaining peak performance.



Green refrigerant

High pressure	R410A	R454B
Flammability	A1	A2L
Toxicity	Lower (A)	Lower (A)
GWP	2088	465
Athmosferic life	17 years	3.6 years

Refrigerants available for Uniflair scroll units

[Learn more](#)

Mid-pressure	R134a	R513A	R1234ze	R1234yf	R515B
Flammability	A1	A1	A2L	A2L	
Toxicity	Lower (A)	Lower (A)	Lower (A)	Lower (A)	
GWP	1430	631	1,37	0,501	288
Athmosferic life	13.4 years	5.9 years	16 years	11 years	

Refrigerants available for Uniflair screw units

Refrigerants available for Uniflair Turbocor units

[Learn more](#)



PEP

The most sustainable cooling portfolio

PEP



Discover more



Close coupled



Precision Cooling



Large chiller





Efficiency

Up to 40% of a data center's energy is used for cooling. That's why efficiency is crucial in data center cooling and precision air conditioning.

Uniflair chillers conditioners are designed with the awareness that low energy consumption is the result of an exhaustive analysis, from the choice of components to the constant refinement of design solutions.



Specific Design to maximize efficiency

- EC fans
- EEV valve
- VSD pumps



VSD Compressor Technology

- VSD Scroll compressor 
- VSD Screw and Turbocor Compressors 



Free Cooling Optimization in a compact footprint

- Free Cooling Units 

Reliability

A fundamental requirement for each data center is to guarantee continuous operation. Reliability is achieved thanks to the design and implementation of cooling systems that are intrinsically reliable and incorporate an appropriate level of redundancy. System reliability is based upon several basic considerations, such as a dual source of cooling and electrical power.



Uniflair units ensure reliability also through:

- Monitoring of all components.
- Precise and clear display of any malfunctions or abnormal operating conditions.
- Management of emergency conditions with ability to maintain basic cooling requirements.



Quick Start

[Discover more](#)



Infrastructure management

EcoStruxure
Innovation At Every Level

[Discover more](#)



Witnessing test

[FAT Brochure](#)

[Discover more](#)



Tailored solution to maximize reliability

[Discover more](#)

High Temperature Design

Data center market is characterized by high water temperatures to maximize the efficiency and high outdoor temperature to guarantee a continuous cooling.

Uniflair chiller are perfectly in line with this trend with a specific design that allow the unit to work with:

- High water setpoint
- High water delta T
- High outdoor temperature



High Water Setpoint

 Discover more



High Water DeltaT

 Discover more



High Outdoor Temperature

 Discover more

Classification



Mid-Small range



Small and Mid Uniflair Chillers work with Scroll compressors, fixed speed and VSD. Air Cooled and Free Cooling solutions designed for mission critical application able to work with high water setpoint, multiple refrigerant and different configurations.

[go to Range](#)



Big range



Big Uniflair Chillers work Screw and Turbocor compressors. Compact solutions Air Cooled, Free Cooling and Water Cooled designed for mission critical application able to work with high water setpoint, multiple refrigerant and different configurations.

[go to Range](#)

Reading Guide

Home Button and Previous View

Version size

Series name

Quick navigation to Series's main pages

Link to download Series brochure

[Home](#)
[Company](#)
[Value](#)
[Chiller](#)

Life Is On **Schneider Electric**

Big Range

XRAC / XRAF
600-2050 kW*

[Brochure](#)

Description

All-in-one air-cooled or Free Cooling chillers with EC axial fans for outdoor installation and with fixed speed or VSD screw compressors designed for mission critical applications.

The unit is equipped with two compressors operating on two refrigerant circuits, high efficiency shell and tube evaporator and air-side condenser made of copper tubes and aluminum fins coils or microchannel coils (according with the model) optimized for wide operating conditions. The Free Cooling version present copper and aluminium coils too.

The range is available with a wide range of refrigerants: R134a, R513A, R1234ze and R1234yf.

Version	Air Cooled and Free Cooling
Compressor	Fixed Screw and VSD Screw
Refrigerant	R134a; R513A; R1234ze; R1234yf
Fans	EC
Evaporator	Dry shell and tube
Condenser Coils	CuAl coils or Microchannel coils (according to the model)
Free Cooling Coils	CuAl

Additional information

Compressor



Refrigerant






*Basic unit with water 30/20°C, 0% glycol, Outdoor Temperature 35°C

Manufacturing information

Made in		
Italy	✓	✓
India		✓

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Features

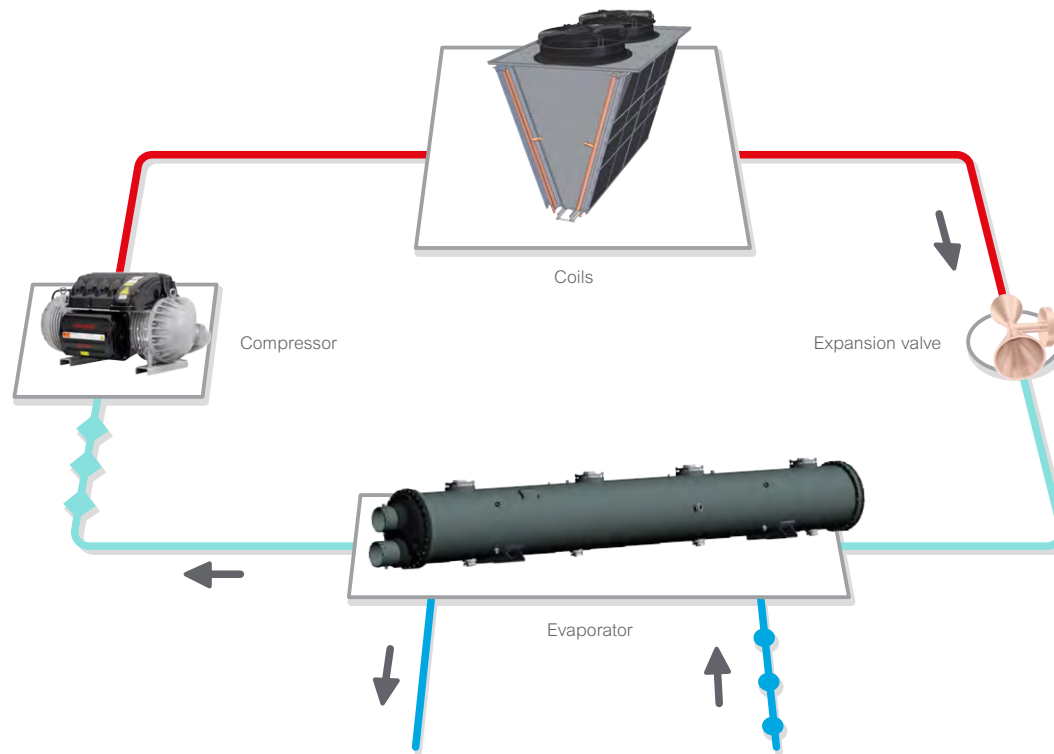
Certification information

Manufacturing information

Air Cooled Units

Air Cooled chillers work always in mechanical mode, cooling water through the refrigerant circuit. The refrigerant is condensate by external air.

ALL SEASONS



- ◆ Refrigerant
- Water

Control Panel

Compressor

On ☒

Energy Consumption



Free Cooling Units

Free Cooling chillers work in mechanical mode in summer season, cooling water through the refrigerant circuit.

Control Panel

Operation mode

SUMMER

MID-SEASON

WINTER

Free Cooling pump

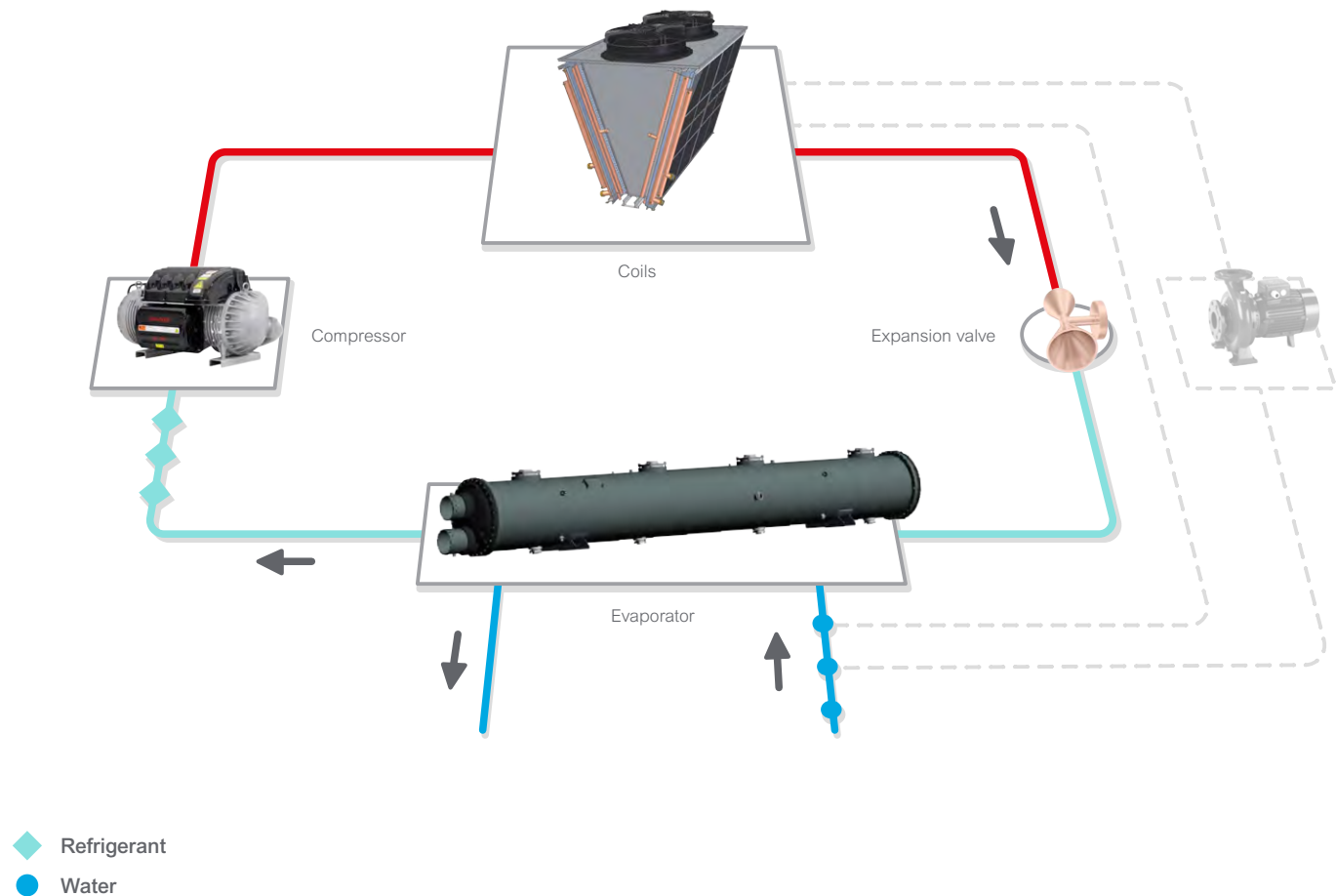
Off

Compressor

On

Energy Consumption

SUMMER



Free Cooling Units

Free Cooling chillers work in mixed mode in mid seasons, cooling water through the external air and further cooling through refrigerant circuit.

Control Panel

Operation mode

SUMMER

MID-SEASON

WINTER

Free Cooling pump

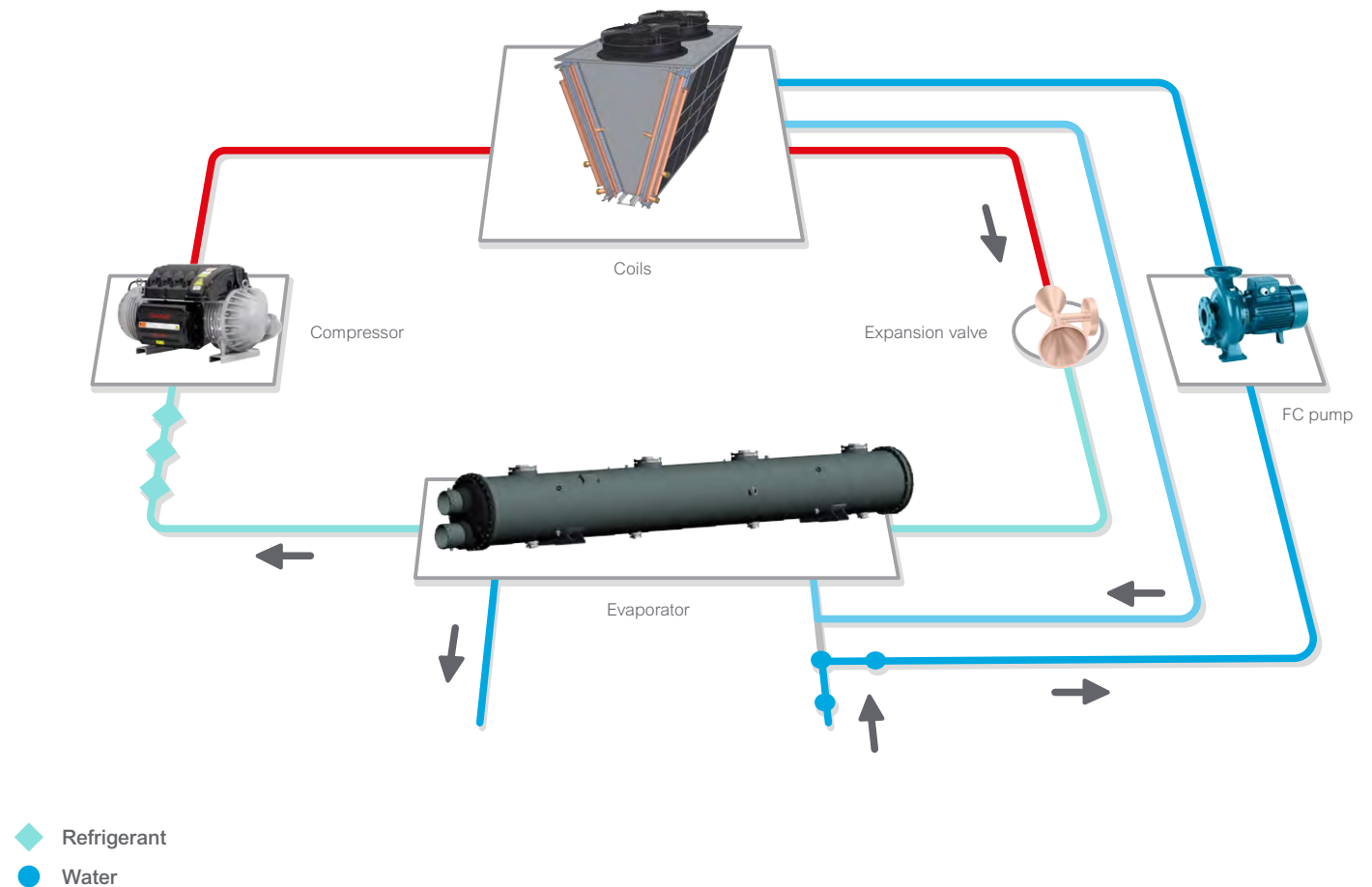
On

Compressor

Partialized

Energy Consumption

MID SEASON



Free Cooling Units

Free Cooling chillers work in mixed mode in mid seasons, cooling water through the external air.

Control Panel

Operation mode

SUMMER

MID-SEASON

WINTER

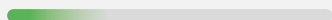
Free Cooling pump

On

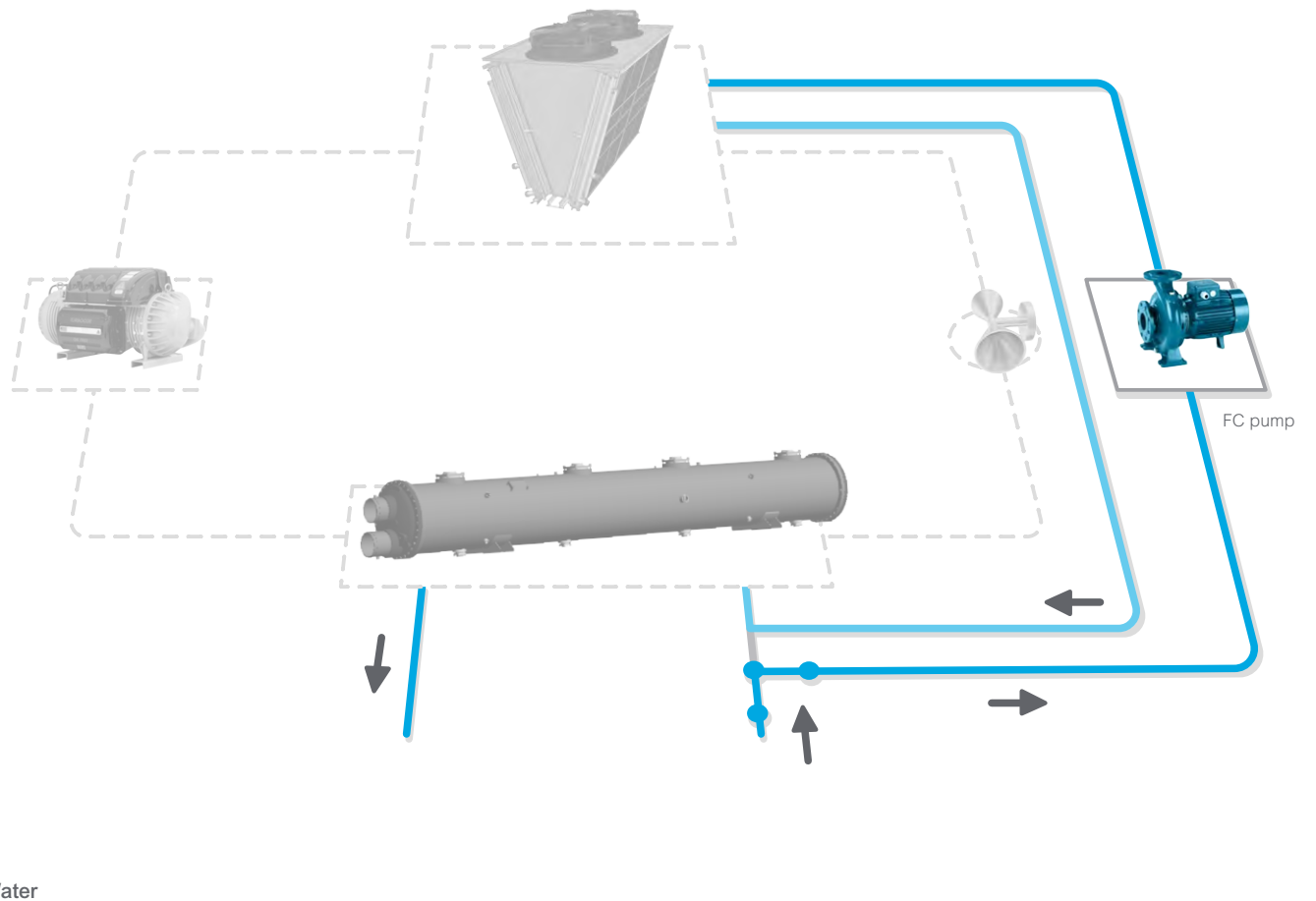
Compressor

Off

Energy Consumption



WINTER



Free Cooling

Free-cooling is an efficient method to reduce energy consumption at low outside air temperatures. It enhances energy optimization in data center and process cooling.

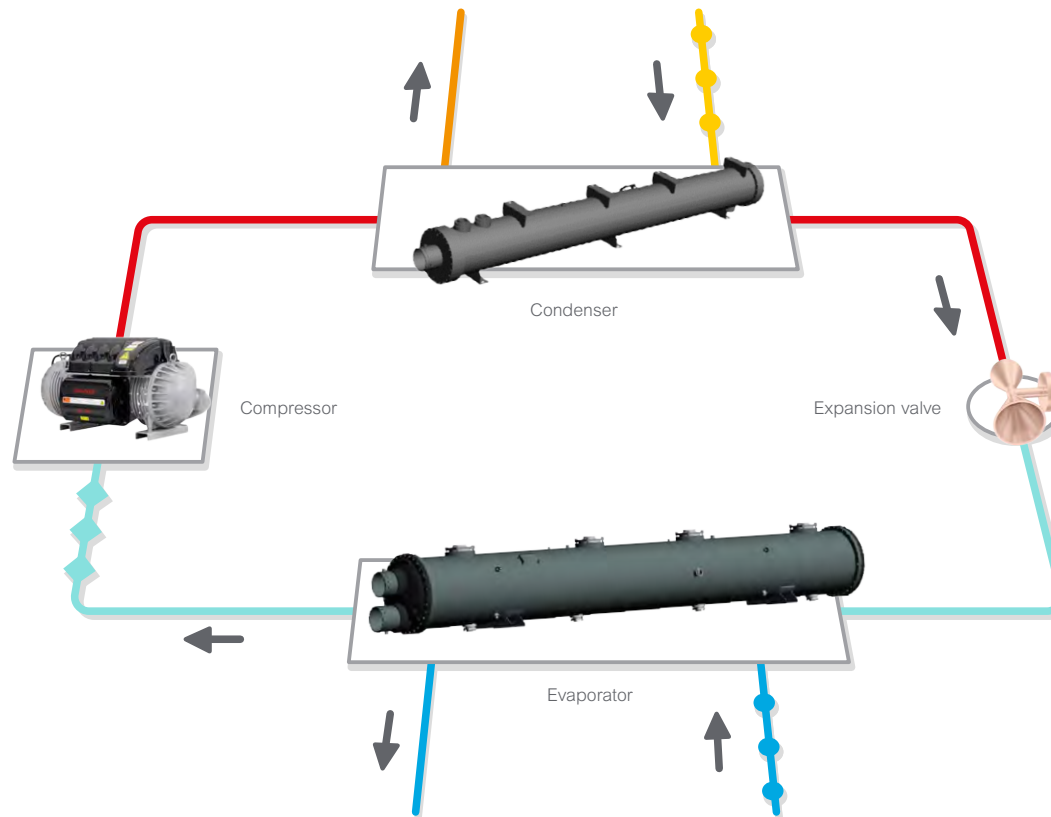
% Discover the values of **energy saved with Free Cooling**. Find out them with the blue dot.



Water Cooled Units

Water Cooled chillers work always in mechanical mode, cooling water through the refrigerant circuit. The refrigerant is condensate by a secondary water.

ALL SEASONS



- ◆ Refrigerant
- Water

Control Panel

Compressor

On ☒

Energy Consumption





[Company](#)

[Value](#)

[Chiller](#)

Small-Mid Range

Air Cooled Chiller



Free Cooling Chiller

Small-Mid Range

Range overview

Compare features and choose the model that best suits your needs



go to the series >		LRA	ERA	ISA	TRA	TSA
Capacity range		25-40 kW	70-160 kW	90-170 kW	180-550 kW	170-470 kW
i	Compressor	Scroll	Scroll	VSD Scroll	Scroll	VSD Scroll
	Installation	Outdoor	Outdoor	Outdoor	Outdoor	Outdoor
	Refrigerant	R410A	R410A R454B	R410A R454B	R410A R454B	R410A R454B
Cooling version						
i	Air-cooled	✓	✓	✓	✓	✓
i	Free Cooling		✓	✓	✓	✓

Compressor

Scroll Compressors

**ON-OFF**

Fixed Speed Scroll Compressor



Key benefits

- Multi-refrigerant
- Lower capital cost
- Lower maintenance and repair costs
- Most efficient in applications with a consistent demand
- IDV The IDVs adapt the effort of the motor to the pressure conditions in the system opening when condensing pressure and pressure ratio (part-load) fall below the built-in optimization point of the scroll

**VSD**

Variable Speed Scroll Compressor



Key benefits

- Low power consumption and quieter operations at partial load
- The higher capital cost is offset by the lower energy consumption
- Lower starting current
- Longer life-cycle

LRAC
25-40 kW*



The range is available with R410A refrigerant. LRA range is available only for International market.

Version	Air Cooled
Compressor	Fixed Scroll
Refrigerant	R410A
Fans	EC
Evaporator	Brazed plate
Condenser Coils	CuAl coils



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Small-Mid Range

ERAC / ERAF

70-160 kW*



[Brochure](#)

Description

All-in-one air-cooled or free cooling chillers with outdoor installation and with fixed speed scroll compressors designed for mission critical applications. The unit is equipped with two fixed speed scroll compressors operating on one single refrigerant circuit, high efficiency brazed plate evaporator and air-side condenser made of copper tubes and aluminum fins coils optimized for wide operating conditions and 7-inch touchscreen display. The Free Cooling version present copper and alluminium coils too.

The range is available with R454B refrigerant.

Version	Air Cooled and Free Cooling
Compressor	Fixed Scroll
Refrigerant	R454B
Fans	AC and EC
Evaporator	Brazed plate
Condenser Coils	CuAl coils
Free Cooling Coils	CuAl

Compressor



Refrigerant



Manufacturing information

Made in	PEP ECO PASS PORT	CE
Italy		

*Basic unit with water 30/20°C, 0% glycol, Outdoor Temperature 35°C

ISAC / ISAF
90-170 kW*



Description

The range is available with R454B refrigerant.

Version	Air Cooled and Free Cooling
Compressor	VFD Scroll
Refrigerant	R454B
Fans	AC and EC
Evaporator	Brazed plate
Condenser Coils	CuAl coils
Free Coolling Coils	CuAl

Refrigerant



Manufacturing information

Made in		
Italy		

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TRAC / TRAF
180-550 kW*



The range is available with R454B refrigerant.

Version	Air Cooled and Free Cooling
Compressor	Fixed Scroll
Refrigerant	R454B
Fans	AC and EC
Evaporator	Brazed plate
Condenser Coils	CuAl coils or Microchannel coils (according to the model)
Free Coolling Coils	CuAl

Refrigerant



Manufacturing information

Made in		
Italy		

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TSAC / TSAF
170-460 kW*



The range is available with R454B refrigerant.

Version	Air Cooled and Free Cooling
Compressor	VFD Scroll
Refrigerant	R454B
Fans	AC and EC
Evaporator	Brazed plate
Condenser Coils	CuAl coils or Microchannel coils (according to the model)
Free Coolling Coils	CuAl



PEF
eco
PASS
PORT



Italy	✓	✓
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[Company](#)

[Value](#)

[Chiller](#)

Big Range

Air Cooled Chiller



Free Cooling Chiller



Water Cooled Chiller

Big Range

Range overview

Compare features and choose the model that best suits your needs



	go to the series >	DSAF Dry Cooler	XRA	XCA	BCE	BCW
	Capacity range	700-1420 kW	600-2200 kW	1200-2500kW	430-1840 kW	370-2000 kW
	<u>Compressor</u>	-	Screw VSD Screw	Turbocor	Turbocor	Turbocor
	Installation	Outdoor	Outdoor	Outdoor	Outdoor	Indoor
	<u>Refrigerant</u>	-	R134a R513A R1234ze R1234yf	R515B R1234ze	R134a R513A R1234ze	R513A R134a R1234ze
	Cooling version					
	<u>Air-cooled</u>		✓	✓	✓	
	<u>Free Cooling</u>	✓	✓	✓	✓	
	<u>Water Cooled</u>					✓

Compressor

Screw and Turbocor Compressors

ON-OFF

Fixed Speed Screw Compressor



Key benefits

- Lower CAPex
- Multi refrigerant
- EXtra high temperature application

VSD

Variable Speed Screw Compressor



Key benefits

- Equilibrium between CAPex and OPex
- Multi refrigerant
- EXtra high temperature application
- Low impact on electrical infrastructure

VSD

Turbocor Compressor



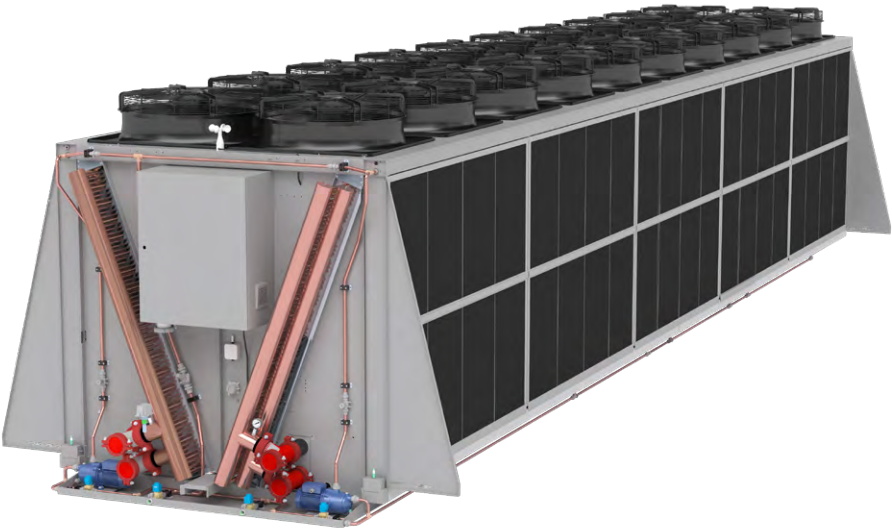
Key benefits

- Lower CAPex
- Multi refrigerant
- EXtra high temperature application
- Lower impact on electrical infrastructure
- Low noise technology

Big Range

DSAF Dry-Cooler

700-1420 kW*



Brochure

Description

High efficiency dry coolers / free-coolers design to dissipate the heat leveraging on the outdoor ambient temperature, that can work as heat rejector in when combined with water cooled chillers or as free cooler when integrated with air cooled or **water cooled** chillers when the whole system in working in free cooling mode.

The unit is equipped high efficiency EC fans, large air side water coils in order to maximize the efficiency and the free cooling operation, high efficiency pad adiabatic system (as option) and 7-inch touchscreen display.

Version	Dry Cooler
Fans	EC
Coils	CuAl

Manufacturing information

Made in	PEP ECO PASS PORT® CE
Italy	

*Basic unit with water 32/20°C, 20% glycol, Outdoor Temperature 16°C

XRAC / XRAF
600-2200 kW*



The range is available with a wide range of refrigerants: R134a, R513A, R1234ze and R1234yf (according to the model)

Version	Air Cooled and Free Cooling
Compressor	Fixed Screw and VSD Screw
Refrigerant	R134a; R513A; R1234ze; R1234yf
Fans	EC
Evaporator	Dry shell and tube
Condenser Coils	CuAl coils or Microchannel coils (according to the model)
Free Cooling Coils	CuAl coils or Microchannel coils (only 7222 model)



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ecc
PASS
PORT



Italy	✓	✓
India	✓	✓

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XCAC / XCAF
1200-2050 kW*



The XCAC and XCAF series deliver next-generation air-cooled and free-cooling chiller solutions, integrating oil-free centrifugal compressors with magnetic bearing technology and built-in variable-speed drives. These systems are meticulously engineered to provide exceptional energy performance and operational stability under diverse thermal loads and ambient conditions. Equipped with a high-efficiency spray-type evaporator, these units deliver exceptional thermal performance comparable to flooded systems, while enabling the use of low-GWP refrigerants with minimized charge volumes—significantly reducing environmental impact. Their wide operating range accommodates elevated water temperatures, making them particularly suited for AI-optimized data centers and advanced liquid cooling infrastructures, where energy efficiency and sustainability are critical.

Version	Air Cooled and Free Cooling
Compressor	Oil-free centrifugal compressor
Refrigerant	R1234ze; R515B
Fans	Axial EC fans
Evaporator	Spray shell and tube
Condenser Coils	Microchannel condenssing coils
Free Cooling Coils	Microchannel free-cooling coils

CE

Italy	✓	✓
India	✓	✓

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Big Range

BCEC / BCEF
430-1840 kW*

[Brochure](#)

Description

All-in-one air-cooled or Free Cooling chillers with EC axial fans for outdoor installation and with oil free centrifugal compressors designed for mission critical applications.

The unit is equipped with one to three compressors operating on one single refrigerant circuit, high efficiency flooded evaporator and air-side condenser made of copper tubes and aluminum fins coils optimized for wide operating conditions and 7-inch touchscreen display. The Free Cooling version present copper and alluminium coils too.

The range is available with a wide range of refrigerants: R134a, R513A, R1234ze.

Version	Air Cooled and Free Cooling
Compressor	Oil Free Centrifugal
Refrigerant	R134a; R513A; R1234ze
Fans	EC
Evaporator	Flooded shell and tube
Condenser Coils	CuAl coils
Free Cooling Coils	CuAl

Compressor

Refrigerant



Manufacturing information

Made in	PEP ECO PASS PORT®	CE
Italy	✓	✓
India	✓	✓

*Basic unit with water 30/20°C, 0% glycol, Outdoor Temperature 35°C

BCWC
370-2000 kW*



The range is available with a wide range of refrigerants: R134a, R513A and R1234ze.

Version	Water Cooled
Compressor	Oil Free Centrifugal
Refrigerant	R134a; R513A; R1234ze;
Fans	EC
Evaporator	Flooded shell and tube
Condenser	Dry shell and tube



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✓



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