

Give yourself peace of mind SMC temperature control solutions

SalC.

Are you getting overheated about the poor performance of your temperature control equipment? Maybe you've just not been introduced to the most efficient working partner.

SMC Chillers embody technological excellence and a commitment to sustainability, offering customers a comprehensive solution for their cooling requirements. Beyond superior performance, investing in SMC Chillers brings about tangible benefits, positively impacting the bottom line, and contributing to a more sustainable and responsible industrial landscape.

Our temperature control solutions prioritize energy efficiency, delivering optimal cooling performance with minimal energy consumption. This not only aligns with **cost-effectiveness** but also underscores a commitment to **environmental sustainability**. The incorporation of advanced technology, including precision control systems and adaptive cooling mechanisms, ensures consistent and intelligent temperature management.

A standout feature of SMC chillers is their remote monitoring and control capabilities, enabling users to manage operations from anywhere. This promotes convenience, facilitates proactive maintenance, and **minimises downtime**, contributing to a seamless operational experience for businesses. SMC chillers have built a reputation for superb reliability in the most demanding applications.

Environment responsibility is a key factor in SMC chiller development, evident in the use of **refrigerants with lower GWP**. This not only complies with ecological standards but also aligns with **global initiatives for a greener future**, emphasizing the importance of responsible corporate practices.

- SMC innovation for European F-Gas
- Current generation chillers
- 🔭 Industry applications

SMC innovation for European F-Gas Don't get left out in the cold

All traditional refrigerants for use in industrial chillers have issues of concern, whether it's high Global Warming Potential (GWP) or problems with flammability or toxicity. The regulatory bodies are cracking down on this issue in an aim to protect the environment by making it difficult for you to continue using traditional refrigerants. But there's some good news: SMC has been working hard on this challenge for the past few years and will shortly be unveiling an industrychanging solution.

Stepping on the gas

The F-gas regulation is the reference text regarding the use of industrial refrigerants. With this regulation, the EU is aiming to achieve another milestone in its European Green Deal, driving the continent closer to attaining its 55 % emissions reduction target for 2030 and its 2050 climate neutrality goal.

⊕ Check more information about F-Gas here.

Refrigerant regulations for chillers

Below, you'll find the European & UK legislation as it's the most restrictive one (compared to the California and US regulation) and it's the one that SMC decided to follow.

EU and UK

www.smc.eu

index





R454C as chiller refrigerant

The GWP of R454C is 146 making it a perfectly legal chiller refrigerant after 1 January 2027. R454C is flammable, albeit in a low flammability category.

SMC challenged itself to come up with a nonflammable refrigerant solution that carries a GWP of less than or equal to 1. The outcome?



CO₂ as chiller refrigerant

 \cdot GWP of CO₂ is 1.

· Non-flammable and non-toxic

• Transportable by air.

The use of CO₂ as a refrigerant gas involves a completely new design of chiller featuring a number of technology innovations, SMC has a chiller range that uses CO₂ gas, taking advantage of its ultra-low GWP.



SMC innovation for European F-Gas **CO2 chillers**

Ready to embrace sustainable cooling? Check out SMC CO₂ refrigerant chillers for an eco-conscious and efficient solution.

Don't miss the opportunity SMC is giving you.

The future is NOW!

SMC's CO₂ refrigerant chillers offer a compelling alternative to the traditional options. By using CO₂ (R744), they boast a near-zero global warming potential (GWP), avoiding harmful CFCs and making them an environmentally-friendly choice. SMC chillers are a future-proof investment. Stringent regulations are phasing out traditional refrigerants. By choosing CO₂, you gain peace of mind knowing your chiller complies both with current and upcoming environmental standards.

Don't be fooled by their green credentials – these chillers pack a punch. With efficient designs and variable options, they can perform at the same level as the current generation chillers.



146

675

GWP = 1 Compliant with each country's refrigerant regulations

As of the end of September 2024

GWP

1

EU refrigerant regulations	: GWP150 or more
JS refrigerant regulations	: GWP700 or more
California, US refrigerant regulation:	s: GWP750 or more
"GWP" indicates the global warming potential. The value	ues are based on the IPCC AR4



3.922

2.088

1,774



Non F-Gas standard type chiller -

General industry

SMC's HRSC natural refrigerant chillers are designed to provide efficient and environmentally-friendly cooling solutions. Using natural refrigerants, these chillers offer a sustainable alternative to traditional systems, significantly reducing the environmental impact. They also come with advanced features such as precise temperature control and energyefficient operation.

Cooling capacity range





The inverter efficiently controls the motor speed of the refrigeration compressor.

Temperature control specifications



1.3 to 4.2 kW



COOLING METHODS

5.1 to 5.9 kW

Air cooled and water cooled

TEMPERATURE STABILITY

±0.1 °C

9.5 to









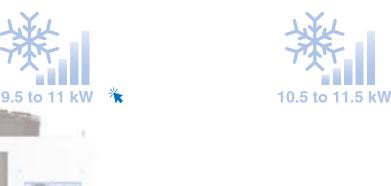


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Temperature control specifications



Cooling capacity range

DC inverter compressor

The inverter efficiently controls the motor speed of the refrigeration

5.1 to 5.9 kW



compressor.



5.1 to 5.9 kW

Air cooled and water cooled

TEMPERATURE STABILITY

±0.1 °C







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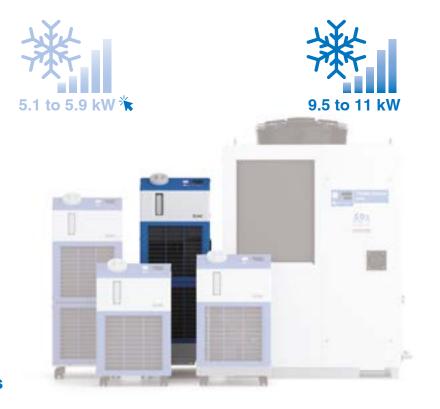
The inverter efficiently controls the motor speed of the refrigeration compressor, cooling fan and circulation pump depending on the load applied by the user's equipment.

Temperature control specifications



9.5 to 11 kW

www.smc.eu index







TEMPERATURE RANGE

COOLING METHODS

Air cooled and water cooled

TEMPERATURE STABILITY

±0.1 °C







Non F-Gas standard type chiller .

General industry

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Cooling capacity range



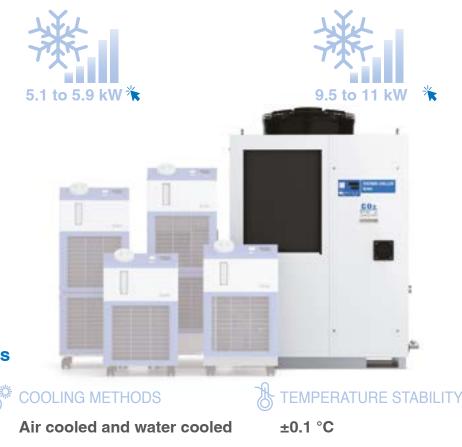
The inverter efficiently controls the motor speed of the refrigeration compressor, cooling fan and circulation pump depending on the load applied by the user's equipment.

Temperature control specifications



www.smc.eu index

Air-cooled: 10.5 kW Water-cooled: 11.5 kW













Non F-Gas standard type chiller

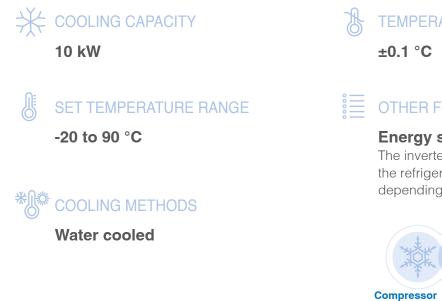
Semiconductor

SMC semiconductor chillers are precision-engineered machines that provide consistent, reliable and energy-efficient cooling for critical semiconductor manufacturing processes.

Eco-friendly refrigerant, efficient performance

Decrease administration time and costs - CO2 requires no import or usage guotas under the F-Gas regulation **Simplify transportation** – CO₂, unlike many traditional refrigerants, is not subject to international air transport restrictions Use it in the semiconductor industry - Compliant with the SEMI S2, S8, F47 **Reduce your costs** – Compressor and pump inverter for energy-efficient performance.

① Temperature control specifications





OTHER FEATURES

Energy saving design

The inverter efficiently controls the motor speed of the refrigeration compressor and circulation pump depending on the load applied by the user's equipment.



DC inverter compressor

Inverter pump





Discover the next generation of environmentally-responsible cooling solutions with SMC's innovative chillers featuring R454C refrigerant.

Designed to meet upcoming environmental regulations while delivering exceptional performance, our chillers offer a sustainable and efficient cooling solution for diverse industrial applications. Achieve the perfect balance of reliability, energy efficiency, and environmental stewardship with SMC's R454C refrigerant chillers, paving the way towards a greener future in industrial cooling.

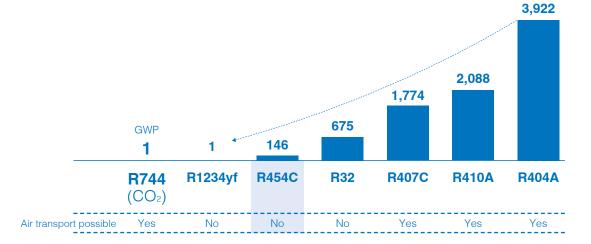
The future is NOW!

SMC's R454C refrigerated chillers, including the HRSF, HRRF, and HRLF series, are designed to provide efficient and environmentally-friendly cooling solutions. These chillers use the low Global Warming Potential (GWP) refrigerant R454C, which significantly reduces environmental impact. The series offers high performance and reliability, making them suitable for various industrial applications. With features such as precise temperature control, space-saving designs, and easy maintenance, SMC's R454C chillers ensure optimal performance while also adhering to stringent environmental regulations.

GWP = 1 Compliant with each country's refrigerant regulations

As of the end of September 2024

EU refrigerant regulations	: GWP150 or more
US refrigerant regulations	: GWP700 or more
California, US refrigerant regulations: GWP750 or more	
$\ast~$ "GWP" indicates the global warming potential. The v	alues are based on the IPCC AR4.





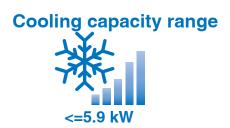


Low GWP refrigerant standard type chiller .

General industry



The HRSF series uses the environmentally friendly R454C refrigerant, which has a low Global Warming Potential (GWP) of 146. Focussing on high performance and energy efficiency, the HRSF series ensures precise temperature control and consistent operation. Ideal for both indoor and outdoor installations, these chillers are built to meet stringent environmental regulations while also delivering optimal cooling solutions for various industries.









TEMPERATURE RANGE

Temperature control specifications



1.3 to 5.9 kW





Air cooled and water cooled

TEMPERATURE STABILITY

±0.1 °C

5 to 40 °C



Low GWP refrigerant standard type chiller .

General industry

The HRSF series uses the environmentally friendly R454C refrigerant, which has a low Global Warming Potential (GWP) of 146. Focussing on high performance and energy efficiency, the HRSF series ensures precise temperature control and consistent operation. Ideal for both indoor and outdoor installations, these chillers are built to meet stringent environmental regulations while also delivering optimal cooling solutions for various industries.

Cooling capacity range

<=5.9 kW *









15.7 to 20.5 kW



COOLING METHODS

TEMPERATURE STABILITY

±0.1 °C

SET TEMPERATURE RANGE

5 to 35 °C



Low GWP refrigerant rack mounted chiller .

Laser industry

SMC's HRRF series chillers are designed to provide efficient and reliable cooling solutions for various industrial applications. These chillers use the environmentally-friendly R454C refrigerant, which has a low Global Warming Potential (GWP) of 146. The HRRF series is known for its space-saving design, allowing multiple units to be mounted onto a 19-inch rack. With features such as precise temperature control and easy maintenance, these chillers ensure optimal performance while also adhering to stringent environmental regulations. Ideal for applications requiring consistent and stable cooling, the HRRF series is a versatile and eco-friendly choice.





Temperature control specifications

COOLING CAPACITY

TEMPERATURE STABILITY ±0.1 °C COOLING METHODS

Air cooled and water cooled



5 to 35 $^\circ\text{C}$





Low GWP refrigerant dual channel chiller _

Laser industry

SMC's HRLF series chillers are designed to provide efficient and reliable cooling for laser processing systems. These chillers have two independent cooling channels, allowing for the precise temperature control of both the optical head and the oscillator. Using the environmentally-friendly R454C refrigerant, which has a low Global Warming Potential (GWP) of 146, the HRLF series significantly reduces environmental impact. With a space-saving design and user-friendly touch panel interface, these chillers offer optimal performance and easy maintenance, making them an excellent choice for various industrial applications.







Temperature control specifications

★ COOLING CAPACITY

Air-cooled: CH1: 19 kW CH2: 1 kW Water-cooled: CH1: 21.5 kW CH2: 1 kW

SET TEMPERATURE RANGE

CH1: 5 to 35 °C; CH2: 10 to 40 °C



CH1: ±0.1 °C; CH2: ±0.5 °C

OTHER FEATURES

· Triple inverter control

The inverter efficiently controls the motor speed of the refrigeration compressor, cooling fan and circulation pump depending on the load applied by the user's equipment





Low GWP refrigerant dual channel chiller

Semiconductor



DIFFERING CHILLES

69/0

SMC's HRZF series chillers are specifically designed for the semiconductor manufacturing process, providing efficient and reliable cooling solutions while minimising environmental impact. These chillers use the environmentally friendly R454C refrigerant, which has a low Global Warming Potential (GWP) of 146. The HRZF series features advanced energy-saving technologies, including a DC inverter compressor and an inverter pump, which adjust motor rotations based on the load, ensuring optimal performance and energy efficiency. With precise temperature control and easy maintenance, these chillers are an ideal choice for the demanding requirements of semiconductor manufacturing.

Temperature control specifications





-20 to 90 °C



Water cooled



OTHER FEATURES

Energy saving design

The inverter efficiently controls the motor speed of the refrigeration compressor and circulation pump depending on the load applied by the user's equipment.



DC inverter compressor

Inverter pump







Current generation chillers Keep it cool

SMC's current generation chillers use refrigerants such as R407C and R410A, which have GWPs below 2500. These refrigerants have been widely used due to their effective cooling properties. However, from January 1, 2025, the production or import of F-gases with a GWP of 2500 or above will be prohibited. Refrigerants with GWPs below 2500 will still be allowed for maintenance, but the regulations will progressively tighten.

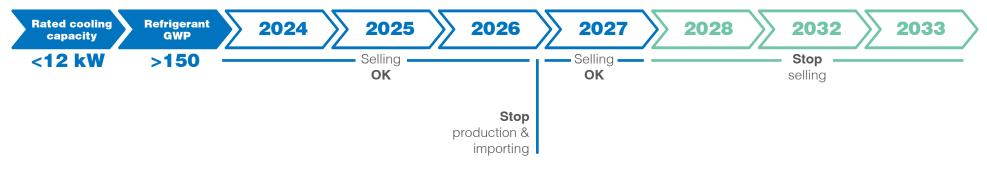
Key deadlines and changes

- January 1, 2027: customs clearance in the EU and UK will be banned for temperature control equipment using refrigerants with a GWP value of 150 or over for equipment of 12 kW or less, and 750 or more for equipment over 12 kW.
- January 1, 2028: sales of current generation chillers will be banned, pushing the industry towards adopting more environmentally-friendly alternatives.

Refrigerant regulations for chillers

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EU and UK



Rack mounted chiller

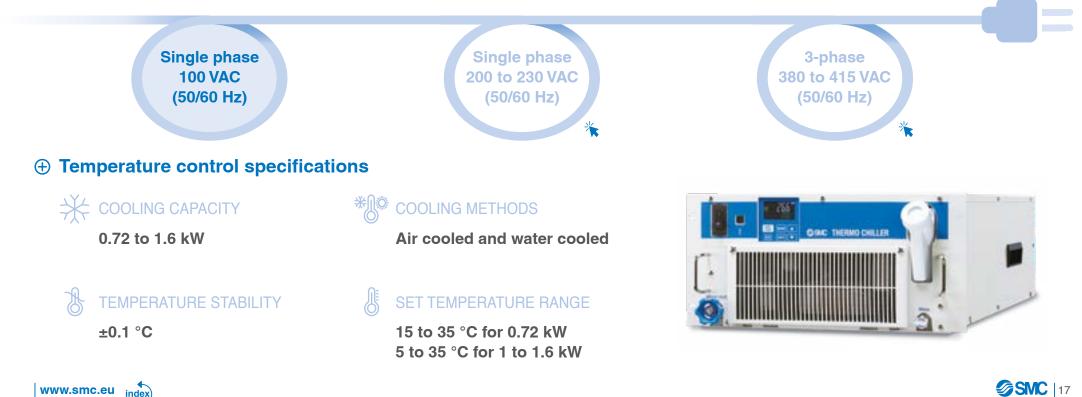
Laser industry

Easy and space saving way to install temperature control equipment in industrial areas. Operable without the need to remove the unit from the rack. SMC offers a wide variety of possibilities that will match your needs.

Simplify your temperature control

Save space – Mount multiple equipment units together in a rack
Ease your control, service and maintenance – Filters and drainage accessible via front panel
Facilitate installation – Built-in filters, flow sensors and bypass piping.

Power supply specification





Rack mounted chiller

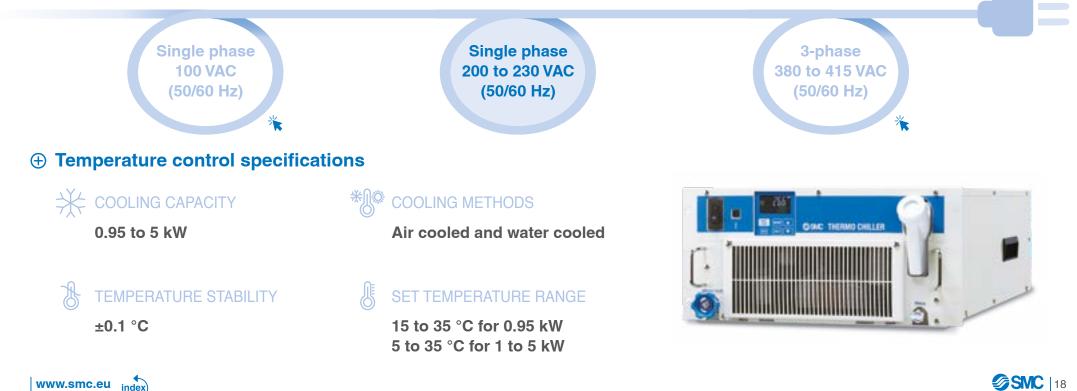
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Power supply specification





Rack mounted chiller

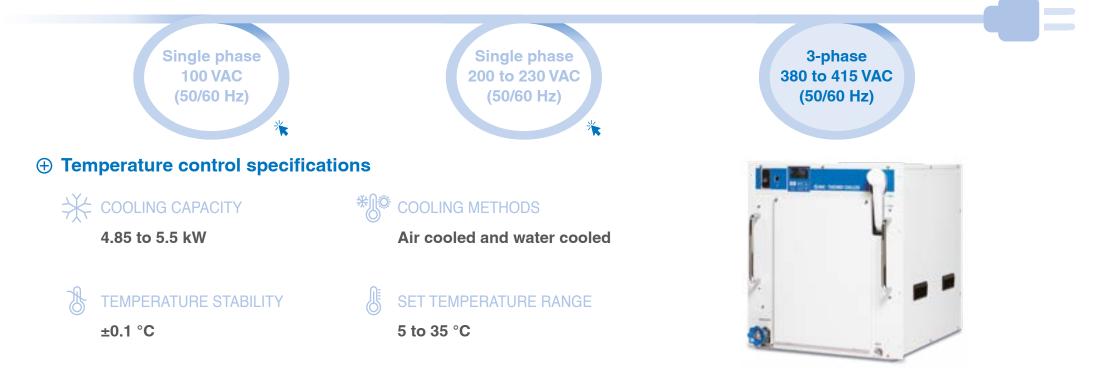
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Power supply specification





Dual channel chiller -

Laser industry

SMC solution for the simultaneous control of two different heat sources with only a single device. See what SMC dual channel thermo chillers have to offer for your applications.

One instead of two

Ease your cooling – 2 fluid channels can be controlled by one single thermo-chiller thus having smaller footprint & wiring
Expand your range of applications – Water cooling options available, usable in secondary battery manufacturing
Use it outdoors – Water splash-resistant, IPX4 compliant
Cut your costs – Reduced power consumption, only one refrigerator, fan and pump. No heater needed.

Cooling capacity range





⊕ Temperature control specifications

Air-cooled: CH1 + CH2: 4.8 to 9.5 kW Water-cooled: CH1 + CH2: 4.8 to 11 kW Small capacity option (5 kW): CH1+CH2: 4.8 kW



CH1: ±0.1 °C; CH2: ±0.5 °C

SET TEMPERATURE RANGE

CH1: 15 to 25 °C; CH2: 15 to 40 °C





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Dual channel chiller _

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 Use it outdoors – Water splash-resistant, IPX4 compliant
 Cut your costs – Reduced power consumption, only one refrigerator, fan and pump. No heater needed.

Cooling capacity range



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⊕ Temperature control specifications

Air-cooled: CH1: 9 kW to 37 kW CH2: 1 a 1.5 kW Water-cooled: CH1: 10 to 21.5 kW CH2: 1 a 1.5 kW

SET TEMPERATURE RANGE

CH1: 5 to 35 °C; CH2: 10 to 40 °C



CH1: ±0.1 °C; CH2: ±0.5 °C

OTHER FEATURES

Triple inverter control

The inverter efficiently controls the motor speed of the refrigeration compressor, cooling fan and circulation pump depending on the load applied by the user's equipment







Great temperature stability for standard mounting

See the SMC solution that is the pinnacle of high-efficiency, reliable and

sustainable temperature control solutions.

Obtain a guieter working environment – Its design with fewer moving parts makes it less prone to vibrate

Increase your productivity and maximise your machine performance – Great temperature stability

Save space and installation time – Mount multiple equipment units together in a rack

Get that smart solution that will give you proactive control - Anticipate any changes.

Laser industry

Size All

Medical & Life science



Semiconductor



Cooling methods









Rack mounted Peltier chiller

Laser industry

See the SMC solution that is the pinnacle of high-efficiency, reliable and sustainable temperature control solutions.

Great temperature stability for standard mounting

Obtain a quieter working environment – Its design with fewer moving parts makes it less prone to vibrate **Save space and installation time** – Mount multiple equipment units together in a rack **Increase your productivity and maximise your machine performance** – Great temperature stability **Get that smart solution that will give you proactive control** – Anticipate any changes.

Cooling methods







10 to 60 °C



0.01 to 0.03 °C

OTHER FEATURES

- Refrigerant free design
- · Low-noise design, as low as 48 dB
- · Compressor-less structured.





Medical & Life science

Semiconductor





Compact Peltier chiller

Make the most of your working space. See what SMC's most compact solution can offer. Ideal for vibration demanding environments.

Your compact, silent, and rapid responsive solution

Make the most of your machine and/or desktop space - W130 x D150 x H210 mm size, 3.5 kg weight Increase your productivity and maximise your machine performance - Only 41s to lower temperature by 10 °C Work in a quiet, low vibration environment - Low noise design, as low as 37 dBA Be environmentally friendly - Refrigerant-free design.

① Temperature control specifications



· Compact design.



SET TEMPERATURE RANGE





Medical & Life science

SMC temperature control solutions



High capacity chiller.

Check what SMC has to offer with a standard model for temperature control that can offer you a wide range of variations for your application.

Improve the performance & reliability of your machine

Optimise the quality of your process – Great temperature stability, up to ±0.1 °C Get that smart solution that will give you proactive control – Remote control to manage any anomalies or incidents Get worldwide support Keep yourself informed – Advanced control functions.

⊕ Temperature control specifications



COOLING CAPACITY



COOLING METHODS







Medical & Life science



General industry





Standard type chiller -

General industry

Unleash precision temperature control, energy efficiency, and adaptability, redefining the standard for reliable and sustainable cooling solutions in the modern industrial landscape with SMC's Chillers.

SMC's standard chillers offer a versatile range of cooling capacities, catering to diverse industrial requirements. This flexibility ensures that the chillers can be tailored to specific applications.

Cooling capacity range









1.1 to 4.9 kW

COOLING METHODS

Air cooled and water cooled



±0.1 °C

SET TEMPERATURE RANGE

-10 to 40 °C





Standard type chiller _

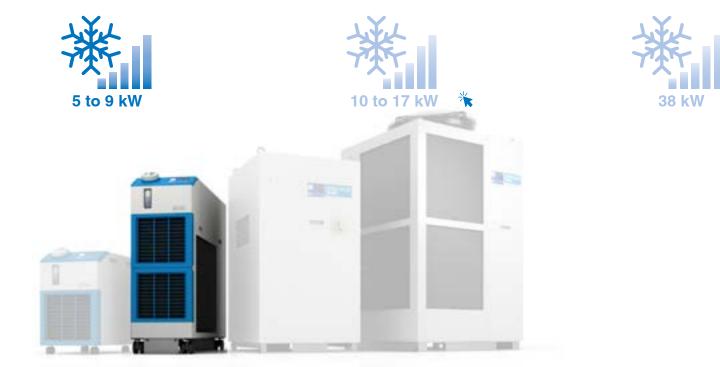
General industry

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Cooling capacity range





Temperature control specifications



5 to 9 kW

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Air cooled and water cooled



SET TEMPERATURE RANGE

5 to 35 °C



Standard type chiller

General industry

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Cooling capacity range 5 to 10 to 17 kW 100 🕀 13 kW (+) 14.5 kW 🕀 17 kW **Temperature control specifications** COOLING CAPACITY **COOLING METHODS** TEMPERATURE STABILITY TEMPERATURE RANGE Air cooled and water cooled 10 to 17.5 kW ±1 °C 5 to 35 °C SMC |28 www.smc.eu index





Standard type chiller _

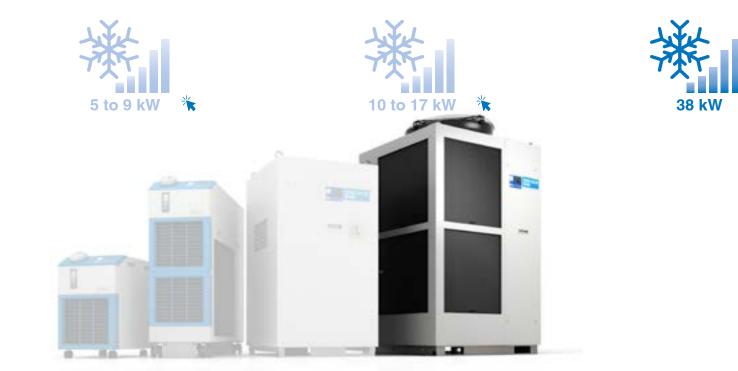
General industry

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Cooling capacity range





Temperature control specifications



38 kW





Air cooled

temperature stability ±0.1 °C



5 to 35 °C



General industry

See what SMC's basic type chiller has to offer. Easy to use, compact and cost effective solution for your application.

Improve the performance & reliability of your machine

Energy saving by triple control Self-diagnosis through the 12 different alarms Simple operation in only 2 steps No fluid leakage – maintenance free and cost saving when using the magnet pump Usable in quiet environments – low noise design.

① Temperature control specifications

COOLING CAPACITY



10 to 30 °C



±2 °C



Basic control functionality









Energy efficient chiller

Check out what SMC's energy efficient chillers have to offer.

Triple savings at the right temperature

Cost savings with energy savings in high cooling capacities due to triple inverter control Temperature stability adjustment regardless of set point – Possible to raise the process temperature despite having no heater

Reduced labour and maintenance time – Advanced control functions with easy operation **Outdoor installation** – Splashproof type IPX4.

Compressor



Outstanding energy saving effect with the triple inverter The inverter efficiently controls the motor speed of the refrigeration compressor, cooling fan and circulation pump depending on the load applied by the user's equipment.

⊕ Temperature control specifications

COOLING CAPACITY
9.5 to 28 kW
Heating capacity up to 7.5 kW



5 to 35 °C

TEMPERATURE STABILITY

±0.1 °C

COOLING METHODS

Air cooled and water cooled



SMC temperature control solutions



Laser industry





SMC 31

Semiconductor chiller

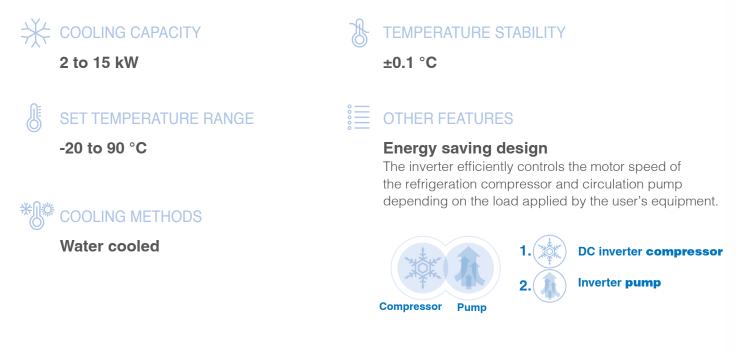
Semiconductor

SMC semiconductor chillers are precision-engineered machines that provide consistent, reliable and energy efficient cooling for critical semiconductor manufacturing processes.

A lot more than reliable

Fit it in your semiconductor application – The most reliable chiller for it
Achieve cost reductions – Energy savings of up to 65% thanks to the use of an inverter compressor and pump
Minimise maintenance – The pump housing and heat exchanger are located inside the tank
Maximise the performance of your machine – Great temperature stability ±0.1 °C and set temperature range from -20 to 90 °C.

Temperature control specifications





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Industry applications



Cryogenic chillers









Electronic microscope



Welding









Industry applications





Etching





Cleaning machines





Testers







CPM (Chemical Mechanical Processing)







SMC Business Continuity Plan

Discover more on SMC Business Continuity Plan

Sustainable growth also means ensuring uninterrupted operations

We are committed to ensuring that SMC is prepared for any emergency and that our business activities will not stop in the event of such circumstances. SMC aims to fulfil our product supply responsibilities and maintain our customers' trust by contributing to both sustainable growth and the expansion of technological innovations.

SMC, as a comprehensive manufacturer of automatic control equipment that supports automation, is able to promptly provide products that meet our customers' needs anywhere in the world.

Finance BCP

Safe & Solid financial base

In the event of an emergency, SMC can provide a safe and solid financial base (with cash, deposits, and equity capital) that will sufficiently cover the working capital and funds needed to rebuild buildings and the equipment required for business continuity. This is done to provide peace of mind to our customers and workers alike.

Information security BCP

Vital data kept safe

Strengthen information security for protection against computer viruses and cyberattacks, plus the installation of data centres to establish a disaster recovery system. Your information is safe with us.

Sales BCP

Consistent sales support

7,000 sales engineers worldwide ready to recommend the best solution for you.

Over 80 global locations to make sure that wherever you are, we are there too.

Production BCP

Ensure customer order fulfilment

Reliable delivery for you thanks to our 9 global logistic centres and production sites in 38 countries, 10 of which are located in Europe. Moreover, flexibility to rapidly respond to any sudden change in the manufacturing environment.

Aiming to gain your trust Sustainability through reliability

Engineering BCP

Consistent technical support 2,100 engineers at our 5 technical centres around

2,100 engineers at our 5 technical centres a the globe (2 in Europe – Germany and UK).

www.smc.eu ind



www.smc.eu CHILLER-LEAF-D-UK