

ARCTIC DOOR

REFRIGERATION DOORS



**CHILLING
YOUR WORLD**
SINCE 1981

CHILLING YOUR WORLD

SINCE 1981

ARCTIC

With over 40 years of experience in refrigeration technology, we have been committed to the continuous development and enhancement of refrigeration equipment, delivering custom-made solutions to clients globally.



EXPERIENCE



40 years of expertise in refrigeration technology.

TOP QUALITY



We deliver premium-grade refrigeration solutions, encompassing everything from individual components to fully integrated systems.

EXPERTISE



We continually advance technical expertise to capitalize on innovations in refrigeration, through trend analysis and strategic investment in education and equipment.

LOW LIFE-CYCLE COSTS



Refrigeration solutions are cost-effective, with low maintenance and high energy efficiency.

INVESTING IN THE FUTURE



Refrigeration solutions are engineered for optimal energy efficiency, appealing to environmentally conscious users with a future-oriented focus.

ENGINEERING-INSTALLER APPROACH



We combine innovative engineering, installation expertise, and comprehensive technical support.

ADAPTABILITY



We design, engineer, and manufacture custom-made refrigeration equipment tailored to specific customer requirements.

ARCTIC DOOR

CUSTOM MADE REFRIGERATION DOORS

Custom-made refrigeration doors are designed and manufactured to meet the specific needs of various industries and tailored to the requirements of investors.

HINGED REFRIGERATION DOORS



Hinged refrigeration doors are used to provide high insulation, energy efficiency, and durability, while offering convenient access and enhanced safety in cold rooms through a hinged door mechanism.



Double leaf refrigerant doors are used in cold rooms to improve traffic flow, enhance energy efficiency, and maintain temperature and humidity control, making them ideal for high-traffic industrial warehouses.

SLIDING REFRIGERATION DOORS



Sliding refrigeration doors are used in cold rooms to allow improve traffic flow, enhance energy efficiency, and maintain stable temperatures, making them ideal for warehouses with limited space and frequent door usage.



Automatic sliding refrigeration doors are used in cold rooms to traffic flow, increase energy efficiency. Automatic doors enhance safety and hygiene by eliminating the need to touch handles or surfaces, reducing the spread of germs and bacteria. Ideal for arehouses with limited space and frequent door usage.

PUSH & PULL REFRIGERATION DOORS



Push & pull doors offer easy opening, a handle-free aesthetic design, reduced risk of contamination, space optimization, and are also used to separate chambers with the same temperature conditions, making them ideal for work and hygiene-sensitive environments.

ARCTIC DOOR

KEY ADVANTAGES

Advantages of custom-made refrigeration doors

INVESTORS:



Production according to customer requirements.



Low cost of ownership during entire life cycle. *1



High-quality panel connections guarantee optimal energy efficiency.



Modularity enables full adjustment to available space.



Innovative solutions and special requests.



Floors in a wide range of load-bearing capacities.



Use of food safe contact materials.



Compliant with ISO norms.



Environmentally friendly products.



EU standards



Quick and easy assembly without power tools.



No silicone.



High level of assembly readiness.



High control of factory production and inspection of finished products.



High packaging standards to protect and safely transport goods.



Recommended by refrigeration specialists.

*1 Ownership cost includes all costs incurred during a product's life cycle (the product's purchase, installation, energy costs incurred through refrigeration equipment's use, maintenance and servicing costs, as well as eco-friendly disposal of the product after its discontinuation).

ARCTIC DOOR

KEY ADVANTAGES

Advantages of custom-made refrigeration doors

ARCTICELL REFRIGERATION HINGED DOORS

- refrigeration doors are constructed with a minimum number of joints and without thermal bridges, to ensure superior insulation properties and better energy efficiency
- the door's sheet metal and insulation are of the same quality as the ArtiCell refrigeration panels

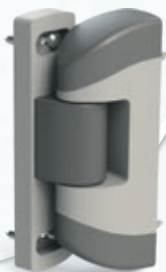
FACTORY PRODUCTION CONTROL

- manufacturing quality is constantly examined, supervised, evaluated, and assessed to facilitate consistently high quality. Verifiable via Initial Type Test (ITT) and Factory Production Control (FPC)



HINGES

- doors are equipped with hinges made from a quality composite that is resistant to temperature fluctuations
- door leaf is lifted and lowered on the hinges to ensure optimal sealing and a long life span of the floor seal
- all hinges are adjustable on all three axes, ensuring precise centring of the door
 - up/ down
 - left/ right
 - forwards/ backwards



LOCK

- the doors are equipped with locks made from a high-quality composite, with a lock cylinder



SAFETY

- the doors are equipped with a fluorescently labelled "ANTIPANIC" mechanism to open the door from the inside
- opening doors and exiting is possible even if doors are locked from the outside, which is in accordance with EN 179

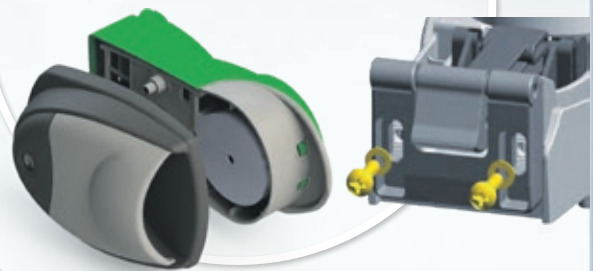


SEALS

- the seal preserves its elasticity and quality for a long period of time and in different operating temperature ranges

HEATER FOR NEGATIVE OPERATING TEMPERATURE

- doors for negative operating temperature ranges are equipped with an electric heater standardly



ARCTIC DOOR

HINGED REFRIGERATION DOORS

Used to provide high insulation, energy efficiency, and durability, while offering convenient access and enhanced safety in cold rooms through a hinged door mechanism.

- Easy installation and use
- Elegant design and excellent compatibility
- Specially designed rubber seal with integrated heaters
- Specially designed for durability and longevity

TECHNICAL SPECIFICATIONS	
OPERATING TEMPERATURE RANGE (+/-)	FROM -24°C TO +60°C
PANEL THICKNESSES FOR POSITIVE WORKING AREA (+)	ISO 60 MM
PANEL THICKNESSES FOR NEGATIVE WORKING AREA (-)	ISO 100 MM

MAXIMUM DOOR DIMENSION		
DOOR TYPE	BUILT IN DOOR	
	SINGLE LEAF	DOUBLE LEAF
MAXIMAL DOOR DIMENSION CLEAR OPENING	WIDTH 1500 MM X HEIGHT 2500 MM	WIDTH 2400 MM X HEIGHT 3000 MM
REFRIGERATION DOOR CUSTOM MADE	POSSIBILITY OF PRODUCING NON STANDARD DOOR DIMENSIONS, IN A STEP OF INCREMENT OF 100MM	

HINGES

- The doors are equipped with hinges made from a quality composite
- Every hinge can be adjusted on all three axes, facilitating a precise centring of the door

LOCK

- The doors are equipped with locks made from a high-quality composite, with a lock cylinder in accordance with DIN EN 179
- ION finishing SAFETY
- The doors are equipped with a fluorescently labelled "ANTIPANIC" mechanism to open the door from the inside (BS EN179:2008)

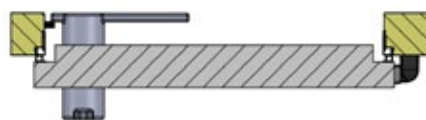
SPECIAL TEMPERATURE PROTECTION

- Specially designed rubber seal with integrated heaters

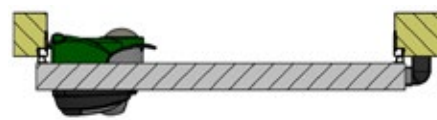
OPTIONS

- Guideway passage
- 4 types of floor threshold
- PVC profiles
- Hinged double leaf door

STANDARD HINGED REFRIGERATION DOORS



SEMI-RECESSED HINGED REFRIGERATION DOORS



- The semi-recessed design offers significant advantages by saving space on the external side. This innovative approach ensures that the door doesn't protrude excessively into the external environment, making it an ideal solution for areas where space optimization is crucial.



BUILT IN DOOR



DOUBLE LEAF DOOR



ARCTIC DOOR SLIDING REFRIGERATION DOORS

Used in cold rooms to allow improve traffic flow, enhance energy efficiency, and maintain stable temperatures, making them ideal for warehouses with limited space and frequent door usage.

- Shock-resistance
- Specially designed for durability and longevity

TECHNICAL SPECIFICATIONS	
OPERATING TEMPERATURE RANGE (+/-)	FROM -24°C TO +70°C
PANEL THICKNESSES FOR POSITIVE WORKING AREA (+)	ISO 80 MM
PANEL THICKNESSES FOR NEGATIVE WORKING AREA (-)	ISO 120 MM
MAXIMAL DIMENSIONS	WIDTH 3000 MM X HEIGHT 4000 MM
REFRIGERATION DOOR CUSTOM MADE	POSSIBILITY OF PRODUCING NON STANDARD DOOR DIMENSIONS IN A STEP OF INCREMENT OF 100 MM



HANDLES AND LEVERS

- The sliding doors are equipped with interior and exterior handles made from a quality composite and an aluminium alloy, as well as with a lever made from AISI 304 stainless steel.

OPTIONS:

- Guideway passage
- 4 types of floor threshold
- PVC profiles
- Locking cylinders

SUSPENSION AND GUIDE RAILS

- Doors open and close easily thanks to their quality suspension made from a solid composite and with aluminium-alloy ball bearings and guide rails.



SLIDING DOORS

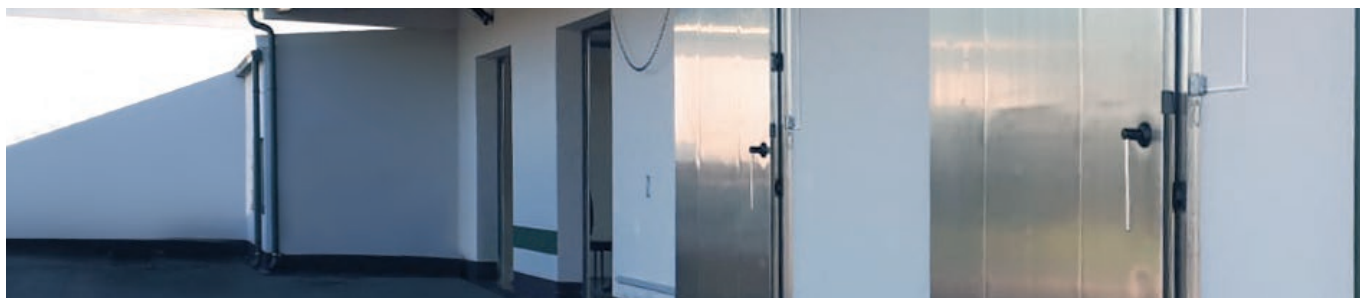
ARCTIC DOOR

AUTOMATIC SLIDING REFRIGERATION DOORS

Used in cold rooms to traffic flow, increase energy efficiency. Automatic doors enhance safety and hygiene by eliminating the need to touch handles or surfaces, reducing the spread of germs and bacteria. Ideal for warehouses with limited space and frequent door usage.

- Shock-resistance
- Specially designed for durability and longevity

TECHNICAL SPECIFICATIONS	
OPERATING TEMPERATURE RANGE (+/-)	FROM -24°C TO +70°C
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REFRIGERATION DOOR CUSTOM MADE	POSSIBILITY OF PRODUCING NON STANDARD DOOR DIMENSIONS IN A STEP OF INCREMENT OF 100 MM



AUTOMATIC CONTROL THROUGH SAFETY SENSORS

- The automatic sliding doors are controlled by sensors ensuring doors are stopped promptly
- Safety sensors on the sides of the doors provide protection from potential obstructions in their closing paths (they close automatically and return to their original position).

ADJUSTMENT OF OPENING AND AUTOMATIC CLOSING SPEED

- It is possible to program opening and closing speeds, partial closing of the doors, and how long doors remain open before closing automatically

STANDARD EQUIPMENT

- Signal light
- The pull switch is located in the inner part of the cooling chamber
- Photosensors for automatic door opening

OPTIONS

- Remote control
- Pull switch located outside the cooling chamber
- Motion sensors



AUTOMATIC SLIDING DOORS

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PUSH & PULL DOORS

Offer easy opening, a handle-free aesthetic design, reduced risk of contamination, space optimization, and are also used to separate chambers with the same temperature conditions, making them ideal for work and hygiene-sensitive environments.

- Easy installation and use
- Elegant design and excellent compatibility
- Shock-resistance
- Specially designed rubber seal
- Specially designed for durability and longevity



TECHNICAL SPECIFICATIONS		
OPERATING TEMPERATURE RANGE (+/-)	UP TO +60°C	
PANEL THICKNESSES	ISO 40 MM	
DOOR TYPE	SINGLE LEAF	DOUBLE LEAF
MAXIMAL DIMENSIONS	WIDTH 1400MM X HEIGHT 2500MM	WIDTH 2400 MM X HEIGHT 3000 MM
MAXIMAL DIMENSIONS	POSSIBILITY OF PRODUCING NON STANDARD DOOR DIMENSIONS IN A STEP OF INCREMENT OF 100 MM	



INSPECTION WINDOW

- The inspection window has a diameter of 200 mm and is made from a twin-wall polycarbonate, with an integrated rubber seal.

HINGES

- The doors are equipped with hinges made from a quality composite, allowing the door leaf to open up to 90° in both directions, lockable in position.

OPTIONS

- Inspection window
- Guideway passage
- 4 types of floor threshold
- PVC profiles
- Double leaf swing doors
- Bumper (PVC/S-type/acrylic)

BUMPER

- The bumper is made from solid PVC, making it shock-resistant and protecting the door leaf from damage.

PROTECTION

- The door leaf is reinforced around its perimeter with an aluminium profile and an EPDM rubber seal



PUSH & PULL DOORS

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REFRIGERATION DOORS OPTION

HINGED REFRIGERATION DOORS



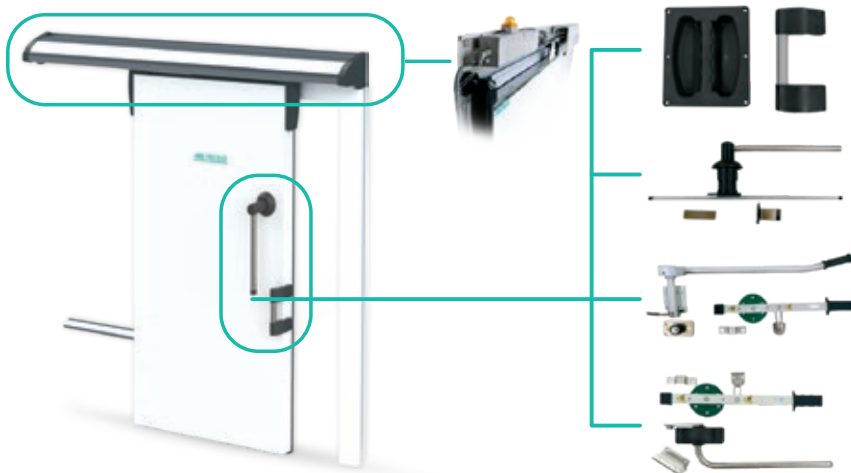
HINGES

- doors are equipped with hinges made from a quality composite that is resistant to temperature fluctuations
- door leaf is lifted and lowered on the hinges to ensure optimal sealing and a long life span of the floor seal
- all hinges are adjustable on all three axes, ensuring precise centring of the door
 1. up/ down
 2. left/ right
 3. forwards/ backwards

LOCK

- the doors are equipped with locks made from a high-quality composite, with a lock cylinder
- the doors are equipped with a fluorescently labelled "ANTIPANIC" mechanism to open the door from the inside
- opening doors and exiting is possible even if doors are locked from the outside, which is in accordance with EN 179

SLIDING REFRIGERATION DOORS



SPECIALIZED LOCKS FOR SLIDING REFRIGERATION DOORS

- manual / automatic operation allows for easy opening and closing of the doors ensuring safe and efficient sealing in lowtemperature environments
- locking system provides additional security and prevents unauthorized access
- guide rail assists in precise door sealing, reducing air leakage and maintaining stable temperatures inside the refrigerated chambers

PUSH & PULL DOORS



INSPECTION WINDOW

- The inspection window has a diameter of 200 mm and is made from a twin-wall polycarbonate, with an integrated rubber seal.

BUMPER

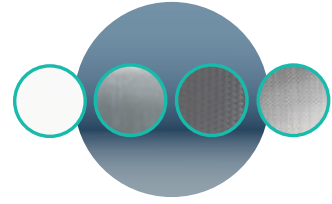
- The bumper is made from solid PVC, making it shock-resistant and protecting the door leaf from damage.

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REFRIGERATION DOORS OPTION

MATERIAL TYPES

1. Steel sheet DX51D-ZM120, colour RAL 9010
2. Stainless steel metal AISI 304/ AISI 316, surface treatment by Scotch Brite
3. Stainless steel metal AISI 304, surface treatment by circular sanding
4. Stainless steel metal AISI 304, decorative leinen



FLOOR THRESHOLD



BASIC MODEL

- for cold rooms without a cold room floor panel where the final layer is the construction floor



OPTION 1

- includes a stainless steel floor threshold adherent to sealing rubber



OPTION 2

- floor threshold adherent to the construction floor
- reinforced floor threshold for forklift crossing - the aluminium "L" profile 50 mm in height

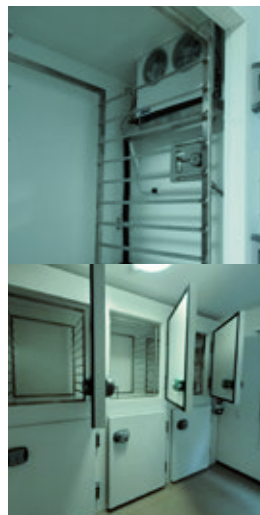


OPTION 3

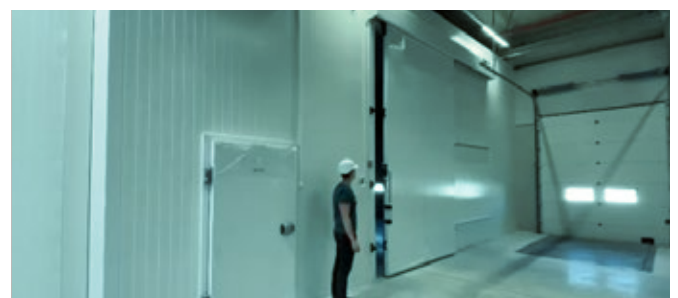
- used in cold rooms where the floor panel is placed on the construction floor
- the floor threshold thickness depends on the cold room floor panel thickness

SPECIAL DIMENSION

Custom-sized refrigeration doors are designed to precisely meet specific spatial and technical requirements, offering flexibility in integration with various cold storage systems. Their non-standard dimensions ensure optimal space utilization while maintaining thermal insulation and energy efficiency, making them ideal for specialized storage or logistical needs.



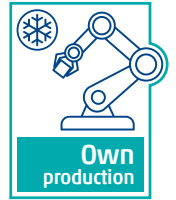
Custom-sized automatic sliding refrigeration doors provide a comprehensive solution for controlled access to cold storage spaces, combining energy efficiency, low-temperature functionality, and adaptability to specific user requirements. Their robust construction and advanced features make them the ideal choice for professional use in industrial and commercial environments.



MB FRIGO

TECHNOLOGY

Since 1981, we have been building and improving business in the segment of air conditioning and refrigeration technology.



- Over the years, we have developed the production of refrigeration equipment in our own production centre using technology and machinery that allow a more flexible approach to the needs of customers.



Leveraging robotized production, we've automated business processes, increased efficiency, enhanced quality, and shortened delivery times.

Our expertise lies in the manufacturing of cold rooms, refrigeration doors, and refrigeration units. The high flexibility of production program enables the creation of custom-made products tailored to specific market needs.



WHAT WE OFFER?

A long-term business relationship, a professional approach to collaboration and 360° support.



HIGH QUALITY PRODUCTS

- Comprehensive refrigeration solutions
- Custom - made solutions according to customer requirements
- Factory production control and thorough inspection of finished products
- Reliable, safe, user-friendly, and energy-efficient refrigeration solutions
- Fully compliant with EU and ISO standards

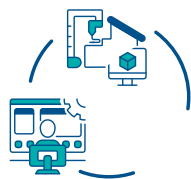


EASY FOR INSTALLERS

- Quick and easy assembly without the need for power tools or silicone
- High level of assembly readiness
- Superior packaging standards to ensure safe transportation and protection of goods



PRODUCTION AND DELIVERY ON TIME



PRESALES AND ENGINEERING SUPPORT

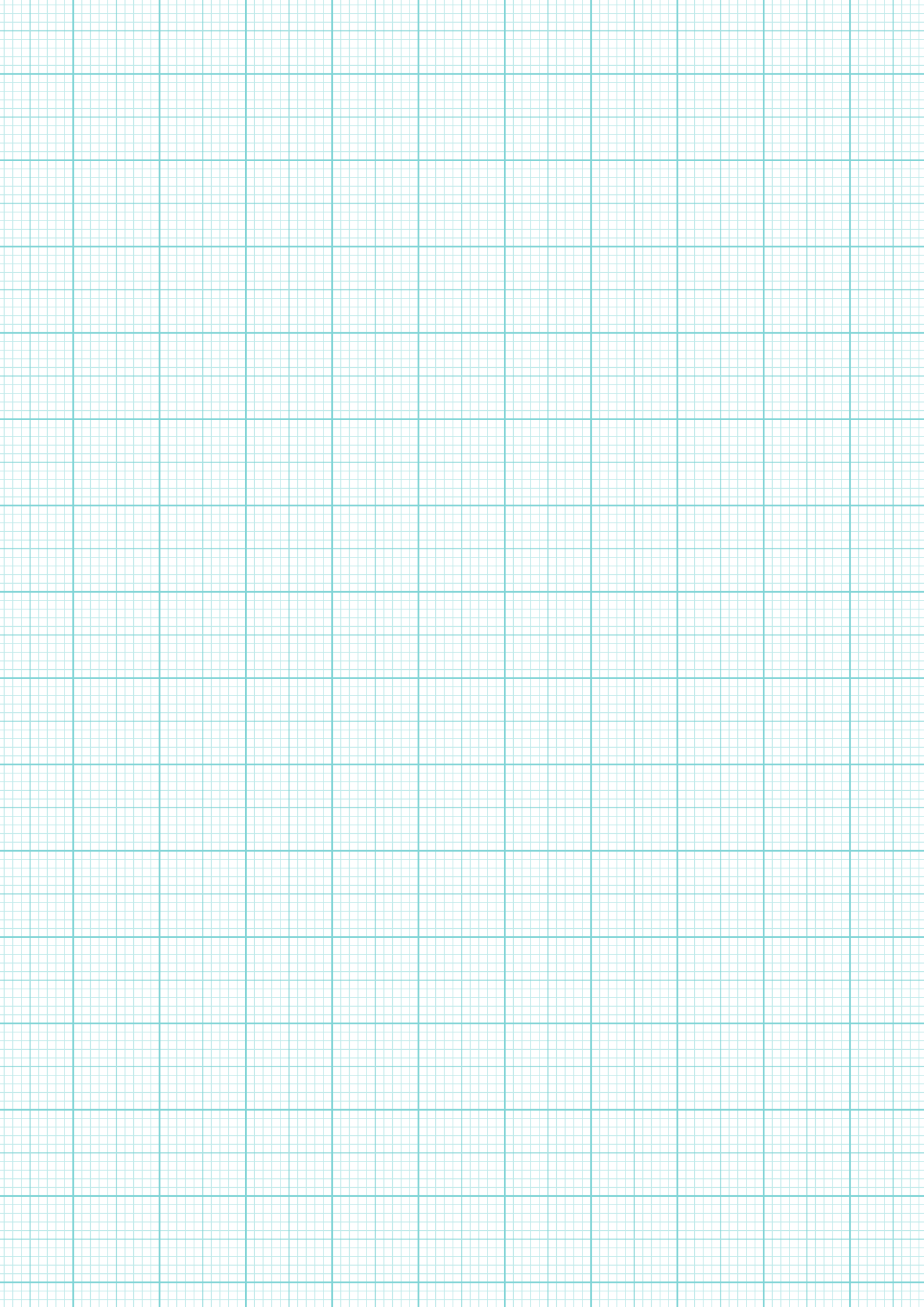


SUPPORT OF THE R&D DEPARTMENT AND SERVICE-TECHNICAL CENTER



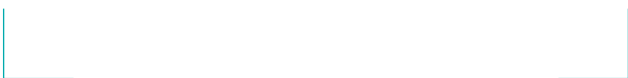
AVAILABLE SPARE PARTS

Every sketch, every line is the beginning of creating unique products tailored to your needs.
We bring your ideas to life through custom-made refrigeration equipment, produced according to your specifications.





Authorized representatives for
ARCTIC refrigerant solutions:



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