



A GEA Küba High Performance Air Coolers Overview

Küba Blue Line
Fresh Solutions.



Küba Green Line
Just cool.



Küba **Green Line**
Aircoolers

Küba **Blue Line**
Aircoolers

Refrigeration with passion

This is your GEA Küba



■ Reliability

GEA Küba stands for reliability:

GEA Küba represents tradition and progress – and **8 decades of dedication to refrigeration technology.**

Since 1927, GEA Küba has developed and produced its products in Germany, setting worldwide technological standards with the "**Made in Germany**" cachet.

Specialisation and continuous investment in research and development (R&D) as well as in the optimisation of our production processes which allows for continual cutting-edge advancements.



■ Quality

GEA Küba stands for quality:

GEA Küba has the largest R&D facility of any Air Cooler manufacturer in Europe. This facility is at the heart of GEA Küba's technical advancement and innovation for components and entire products alike. GEA Küba products are quality tested through our unparalleled functionality endurance tests as well as every day through thousands of practical applications.

As a result, our products have been developed into high quality, long lasting investments which are **safe to install, use and maintain.**



■ Optimum solutions

GEA Küba stands for optimum solutions:

With our constant focus on the customer's needs, we are driven to offer innovative product solutions.

We strive to provide our customers with the maximum benefit as opposed to creating the ultimate pinnacle of technology.

With its two product lines **Küba Blue Line** and **Küba Green Line**, GEA Küba is the only manufacturer to offer **two comprehensive Air Cooler product lines** for an extensive range of applications.



■ Service and availability

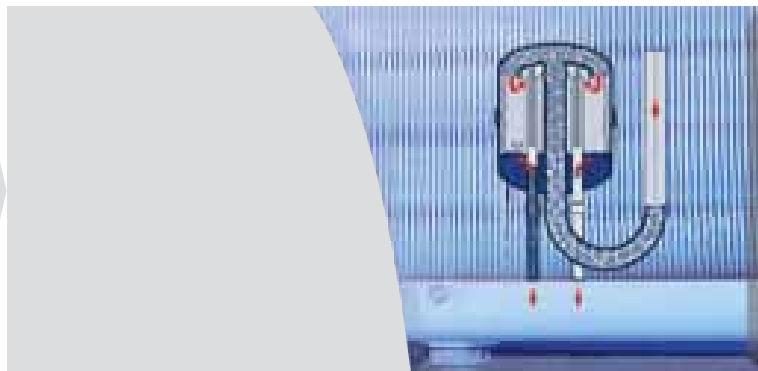
GEA Küba stands for service and availability:

Customer orientation as understood by GEA Küba means offering extensive technical and commercial service **whatever the situation.** Above all, this includes the **straightforward and accurate selection** of products, accessories and spare parts.

An extensively stocked warehouse at the Baierbrunn site near Munich guarantees **rapid availability** and provides additional **security for operations, planning and scheduling.**

This is the GEA Küba Quality:

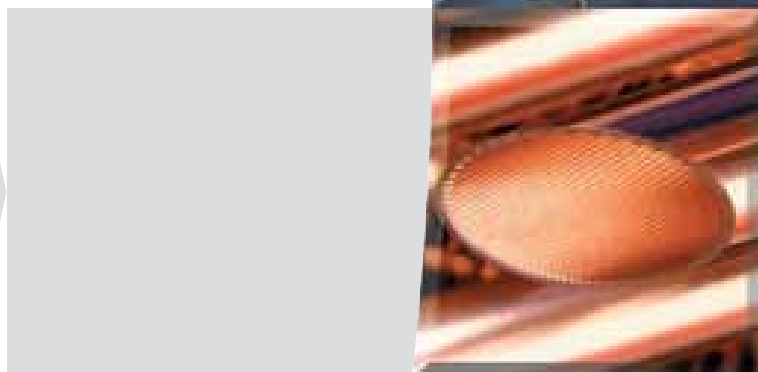
- Greater capacity through the CAL® distributor effect



- Longer service life



- Increased safety for installation and use



- Reliable defrosting



GEA Küba Quality in Detail:

■ CAL® distributor effect:

GEA Küba Air Coolers with multiple injections are equipped with the patented CAL® refrigerant distributor.

- **Full, constant cooling power at all times** at any room temperature and with any refrigerant.
- **Possess universal flexibility:** +10 °C to -55 °C, which are available in both individual and combined systems depending on the required application.
- **Longer Air Cooler defrosting intervals** due to even refrigerant distribution.

■ Long service life:

GEA Küba Air Coolers have scratch resistant surfaces which provide the best corrosion protection.

- **We use the best materials** (i.e. stainless steel) for the respective application.
- **The perfect surface finish** is used, a food-safe and environmentally-friendly powder coating, which is applied before assembly even on inaccessible parts.

■ Safe installation and use:

Quick and easy installation and servicing are extremely important in the design of GEA Küba Air Coolers.

- All major parts are **easily accessible**.
- The smaller models can be **installed directly from the packaging by one fitter**.
- Safe operation without harmful external oils or solid bodies in the cooling system due to an inner purity system in accordance to **DIN 8964**.
- A powder coating and our smooth edge design **prevent user injury**.

■ Optimum defrosting for all applications:

With electrical defrosting, expanded heater tubes achieve the optimum contact with the fin. **These tubes transfer the defrost energy into the heat exchanger without loss.**

- **Low defrosting temperatures** allow for shorter defrosting times in the heat exchanger.
- The low surface temperatures on the heater tube (< 95 °C) **minimise vapour generation**.

The GEA Küba Benefit:

■ Quality you can recognise:

- **Goods are protected** by the highest possible temperature security.
- Sensitive cooled goods such as fruit, fish, steak and cheese are **ripened to perfection**, due to our CAL® distributor which maintains the optimal level of humidity in the air.
- GEA Küba Air Coolers are easily integrated with **energy saving systems**.
- GEA Küba appliances operate on a **wide temperature range**.

■ Cleanliness you can see:

- Smooth, clean surfaces comply with **HACCP guidelines** and with the Provisions of Foodstuffs and Costumer Products Legislation.
- Long-lasting corrosion protection facilitates **hygiene in the cooling room**.
- Powder-coated surfaces **make cleaning easy**.

■ Safety that stays with you:

- Our appliances are equipped with failsafe features to ensure **protection of the goods**.
- GEA Küba products are designed for the **most reliable operation**.
- Minimal service times **reduce operating costs**.

■ Defrosting that you'll appreciate:

- **Very quick, reliable defrosting**.
- Stabilised temperature with minimal fluctuation maintains **high quality of the goods**.
- Due to a reduced amount of vapor in the defrosting process, **ice build-up is significantly minimised**.



The Right Choice in Air Coolers

For any company that processes, ripens or stores fresh food, **refrigeration has an enormous impact on the economic success of that company.** Chilled goods are the primary focus.

With the optimum goods protection and perfectly supported finishing processes, the **GEA Küba Air Coolers** assure the value retention and appreciation of the chilled goods.

Influencing factors of chilled goods

Determining the temperature, humidity and air speed **requirements is the first step in choosing the right Air Cooler.**

Simple chilled goods are primarily composed of packaged goods and beverages.

The complexity of chilled goods increases with sensitive products that react most to dehumidification, i.e. fruit, vegetables, flowers and pastries. The same applies when finishing processes, i.e. cheese curing and specialised meat products are in progress. Meat and fish, as well as marinades and tropical fruits are also considered "complex chilled goods".

Environmental Factors

The **second factor** in selecting the right Air Cooler is the **appliance's environment.**

Design requirements may necessitate an Air Cooler with a long air throw, low profile design or special accessories (hoses, etc.). **The users and their usage patterns** can also make for a complex environment. This is because the frequency and duration at which the cooling room doors are opened impacts the cooling room humidity. The longer the cooling room is exposed to the outside environment, the higher the levels of humidity become. **Prolonged storing or the use of aggressive cleaning agents** as required in meat and fish preparation also increase the level of complexity.

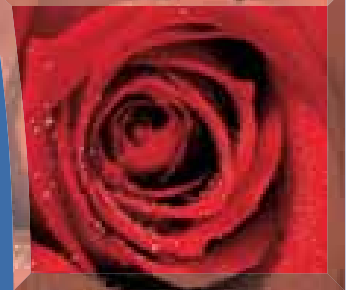
The Decision: "Blue World" or "Green World"

To determine which GEA Küba Air Coolers product line fits to your purposes, the complexity of both the chilled goods and the environment must be considered.

Chilled goods complex
Environment complex
Küba Blue Line



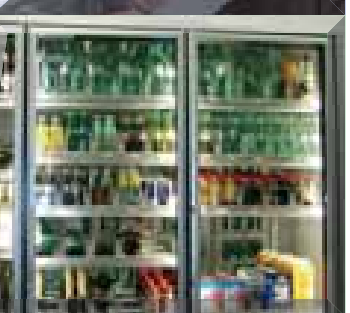
Chilled goods complex
Environment simple
Küba Blue Line



Chilled goods simple
Environment complex
Küba Blue Line

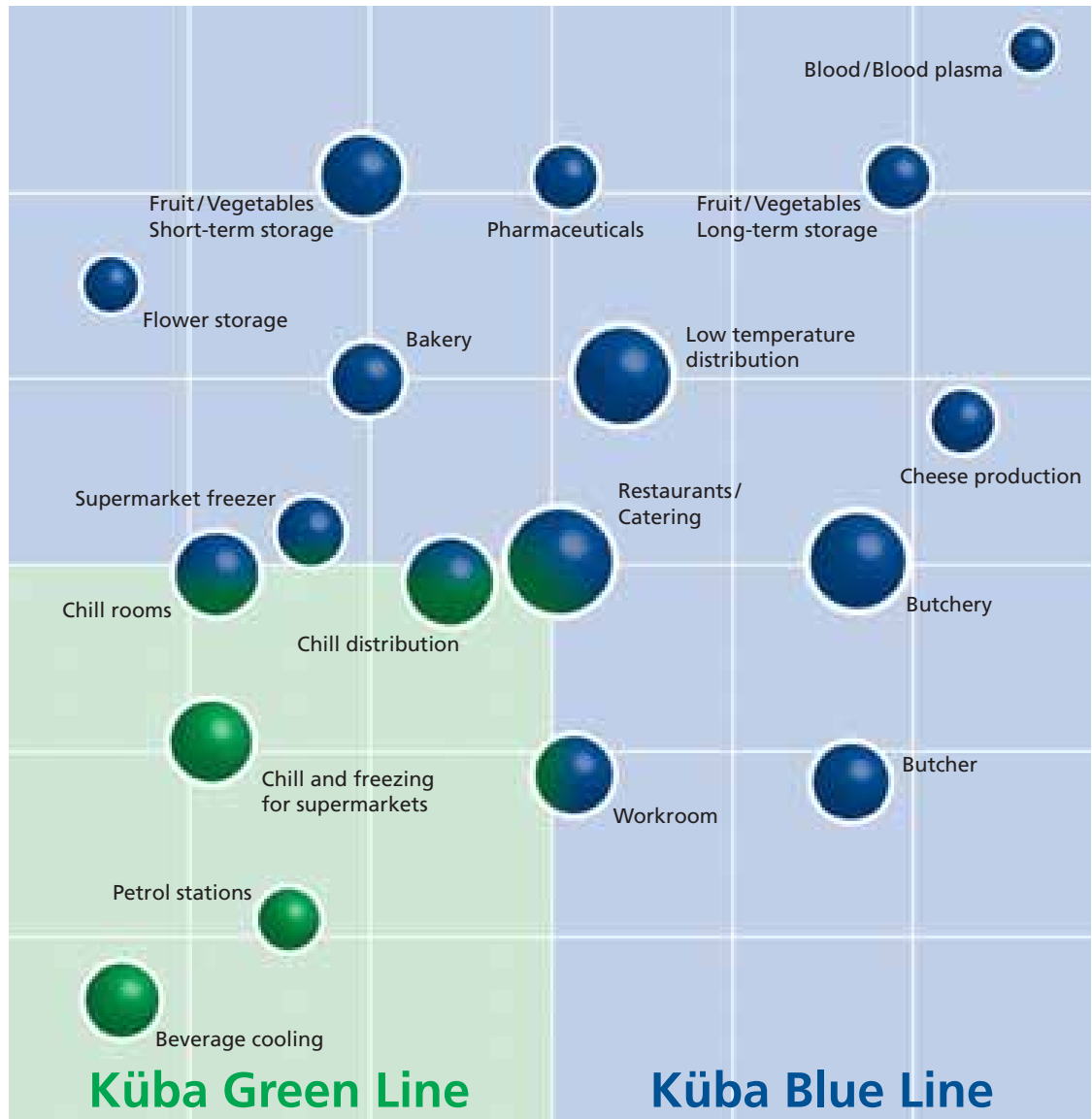


Chilled goods simple
Environment simple
Küba Green Line



- The "Blue world": The Küba Blue Line for complex refrigeration tasks.
- The "Green world": The Küba Green Line for simpler applications.

The Decision: Blue World or Green World



<p>Chilled goods complex Environment complex Küba Blue Line</p>	
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<p>Chilled goods simple Environment simple Küba Green Line</p>	

- "The Blue World": The Küba Blue Line for complex refrigeration applications.
- "The Green World": The Küba Green Line for simpler applications.

Küba Blue Line

DE professional
Q₀ up to 9,4 kW



SG commercial
Q₀ up to 32 kW



SG industrial
Q₀ up to 170 kW



SF blastfreezer
Q₀ up to 64 kW



DZ production
Q₀ up to 78 kW



Fresh Solutions.

Küba Blue Line
Aircoolers

The best technical solution for complex refrigeration applications.

The Küba Blue Line stands for maximum goods protection, optimum maturing or finishing processes and universal use even in challenging environmental conditions.

Just cool.

Küba Green Line
Aircoolers

The right product line for simple refrigeration applications.

With a clear focus on standardised refrigeration applications, the Küba Green Line offers affordable prices and low operation costs in combination with our proven GEA Küba quality.

Küba Green Line

gastro FM
Q₀ up to 0,33 kW



junior DF
Q₀ up to 2,1 kW



compact DF
Q₀ up to 10 kW



market plus SP
Q₀ up to 50 kW



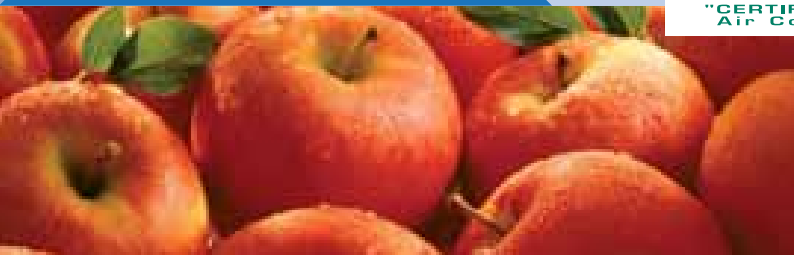
comfort DP
Q₀ up to 28 kW



EUROVENT
CERTIFIED PERFORMANCE



"CERTIFY ALL"
Air Coolers



Küba Blue Line

Aircoolers



DE professional



SG commercial



SG industrial



SF blastfreezer



DZ production

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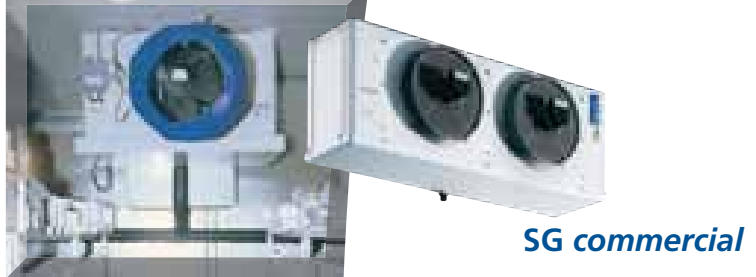


comfort DP

Just cool.



DE professional



SG commercial



SG industrial



SF blastfreezer



DZ production

Applications:

- In smaller cooling rooms
The *DE professional*

- In standard cooling rooms
The *SG commercial*

- In cooling rooms and refrigerated warehouses
The *SG industrial*

- In shock freezing rooms and cooling rooms
The *SF blastfreezer*

- In production- and workrooms
The *DZ production*

Blue Line

Aircoolers

Küba

Küba Blue Line Applications:

In smaller cooling rooms:

- The DE *professional* lives up to its name for **complex cooling tasks in smaller spaces**.
- Applications in which an **extremely efficient ceiling evaporator** is required are the strength point of the DE *professional*.
- With its versatile versions, the DE *professional* is designed to take on the most challenging of **environmental conditions**, i.e. cooling rooms with very high traffic.
- Due to its configuration, the DE *professional* is able to maintain **all temperature ranges with maximum precision**.

DE *professional*

In standard cooling rooms:

- **Precision in the cooling room** has a name: *SG commercial*
The SG *commercial* sets the worldwide standard for all high-power Air Coolers in cooling and deep-freeze rooms.
- With its **comprehensive equipment and numerous models**, the SG *commercial* is equipped to handle even the most challenging of environmental conditions.
- Goods are rapidly cooled by the patented GEA Küba AirGuide System, which allows for optimal air distribution.

SG *commercial*

In cooling rooms and refrigerated warehouses:

- The SG *industrial* is the **customisation artist**. No matter how great the power demand is, the SG *industrial* has the answer.
- With its versatile models, the **SG industrial masters the most complex refrigeration applications**.
- The hinged drip tray and Hinged Fan Decks make **cleaning the SG industrial effortless**.
- The enormous air volume and directed air flow of the SG *industrial* help to achieve maximum cooling and freezing times.

SG *industrial*

In shock freezing rooms and cooling rooms:

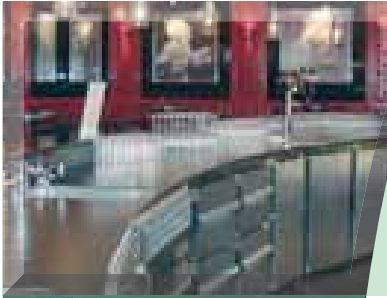
- For **shock cooling and freezing** meat and sausage products, baked goods, pizza and frozen vegetables, the SF *blastfreezer* is the specialist.
- Blow-through fans achieve **optimal air speed**.
- Large fin spacing guarantees a **rapid cooling procedure**: This results in a long evaporator service life.
- With adjustable floor brackets, the SF *blastfreezer* can be **perfectly adapted to on site conditions**.

SF *blastfreezer*

In production- and workrooms:

- Our dual discharge DZ *production* is suitable for **large production rooms and workrooms**, i.e. butcheries and dairies.
- In order to meet strict hygiene requirements, the DZ *production* is **quick and easy to clean** thanks to its hinged drip tray and hinged fans.
- The low profile ceiling design allows for better **space utilisation** as well as **perfect cooling distribution**.

DZ *production*



gastro FM



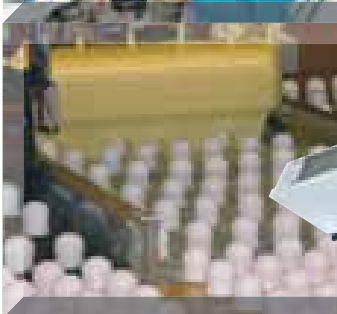
junior DF



compact DF



market plus SP



comfort DP

Applications:

- In refrigerated counters & refrigeration units

The *gastro FM*

- In small cooling rooms

The *junior DF*

- In standard cooling rooms

→ space-saving

The *compact DF*

- In supermarkets

→ plenty of power

The *market plus SP*

- In workrooms

→ with people

The *comfort DP*

Green Line

Aircoolers

Küba

Küba Green Line Applications:

In refrigerated counters & refrigeration units:

- The *gastro* FM is the mighty mini for tough refrigeration challenges that cooling counters or food storage units can pose.
- With the *gastro* FM **beverages, bottles, barrels, and packaged goods** are thoroughly chilled for refreshment in restaurants, bars, snack counters and kiosks.
- The patented air guiding grid **reduces the time it takes to cool** the chilled goods.
- Completely finished with a hygienic coating, the cooler is suitable for use with sensitive goods as well as acidic products such as marinades and tropical fruits.
- **All housing parts can be removed and cleaned in a dishwasher.**



gastro FM

In small cooling rooms:

- Our *junior* DF does a big job in small cooling rooms – for the cooling of **packaged and open goods**.
- The *junior* DF is the right choice for kitchens, canteens and in retail for **keeping** salads, fruit, vegetables, fresh meat and prepared meat **fresh**.
- The complete hygienic coating of the *junior* DF keeps even marinades, vinegar and pickled products completely cold.
- With its low height, the *junior* DF is especially efficient for cooling **in the sub-zero temperature range**. It can be used for ice cream as well as oven-ready and deep-frozen meals.



junior DF

In standard cooling rooms:

- The *compact* DF fully lives up to its name and is a **power pack in small spaces**.
- It is a space-saving helper for cooling beverages and **packaged goods** in cooling rooms for service stations, catering and retail.
- Even when the outside temperatures are high, the *compact* DF provides reliable cooling power in temperature ranges both below and above zero, due to our **GEA Küba temperature security**.



compact DF

In supermarkets and refrigerated warehouses:

- The *market plus* SP offers **outstanding performance** in refrigerated warehouses.
- Whether in supermarkets, large refrigerated warehouses, or in cooling halls, **beverages, milk and dairy products, fresh and cooked meat products** keep cool.
- And if really frosty conditions are called for, such as the **deep-frozen storage** of oven-ready food, pastries, pizzas and deep-frozen vegetables, the *market plus* SP has the reserves to deliver the goods.



market plus SP

In workrooms:

- Our *comfort* DP is the **delicate touch in the Küba Green Line** and makes conditions appreciably cool **where people are working**.
- The **draft-free air circulation** and **extremely quiet operation** make for a pleasant climate for people.
- It goes without saying that the *comfort* DP also creates the **best conditions for processing goods** and offers **convenient cleaning possibilities**.



comfort DP

Information free of charge:



Catalogues

- » Küba Blue Line «
- » Küba Green Line «

The Küba Blue Line and Küba Green Line catalogues contain detailed information all about the GEA Küba high-power Air Coolers. The catalogues include technical data and information about accessories for all series. You are welcome to order **several copies for your colleagues**.



Brochure

- » A GEA Küba High Performance Air Coolers Overview«

You are welcome to request additional copies of this flyer – which you are currently reading – **to assist your sales to your customers**.

Simply enclose the flyer with your offers.



Product Selection Software

- » Küba Select «

The Küba Select product selection software enables you to select exactly the correct units and spare parts **on the PC – down to the last detail**.

It supports you in **reliable project planning** and saves you time during precise configuration.



Küba Field Team

Are you planning an **extensive project** and would you like assistance in doing so? Would it be helpful to have a **personal GEA Küba contact** for your work?

In such a case, our field team will be happy to visit you. (Please don't forget to give your phone number so we can contact you to arrange a date!)



Küba Product Expansion Valve Ruler

With the EV Calculator, **quickly find the most appropriate expansion valve setting**.

GEA Küba products can be purchased from:

Subject to error and revision.

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