Air coolers
The COMPACT product line offers readily available standard units for standard applications at a fair price-performance ratio.

The VARIO product line comprises series which can be customised quickly and accurately for individual projects by means of the Güntner Product Calculator. Customers are able to choose specific equipment to meet their individual requirements from a variety of different material combinations, variants and accessories.

The SPECIAL product line consists of series configured for special applications, e.g., for the cooling of agricultural products or storage centers. Customised adaptations and customer series are available for special applications.

<table>
<thead>
<tr>
<th>Compact</th>
<th>Vario</th>
<th>Special</th>
</tr>
</thead>
<tbody>
<tr>
<td>The COMPACT product line offers readily available standard units for standard applications at a fair price-performance ratio.</td>
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### Competent. Reliable. Personal.

<table>
<thead>
<tr>
<th>Name</th>
<th>Product available in Güntner Product Calculator (GPC)</th>
<th>Product available on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Slim</td>
<td>0.7 – 17 kW</td>
<td>GDF</td>
</tr>
<tr>
<td>Dual</td>
<td>2 – 15 kW</td>
<td>DHF</td>
</tr>
<tr>
<td>Cubic</td>
<td>1 – 61 kW</td>
<td>GACC</td>
</tr>
<tr>
<td>Dual</td>
<td>4 – 90 kW</td>
<td>DHN</td>
</tr>
<tr>
<td>Cubic</td>
<td>4 – 240 kW</td>
<td>GHN</td>
</tr>
<tr>
<td>Process</td>
<td>8 – 50 kW</td>
<td>GBK</td>
</tr>
<tr>
<td>Agri</td>
<td>4 – 115 kW</td>
<td>GACA</td>
</tr>
<tr>
<td>Blast</td>
<td>9 – 72 kW</td>
<td>GFN</td>
</tr>
<tr>
<td>Floor</td>
<td>50 – 200 kW</td>
<td>GSN</td>
</tr>
<tr>
<td>Penthouse</td>
<td>50 – 200 kW</td>
<td>GHN</td>
</tr>
<tr>
<td>HighStore</td>
<td>15 – 150 kW</td>
<td>GHN</td>
</tr>
<tr>
<td>ThermoStore</td>
<td>50 – 200 kW</td>
<td>GI K</td>
</tr>
</tbody>
</table>

- Product available in Güntner Product Calculator (GPC)
- Product available on request
A Strong Partner

Güntner is a leading specialist for heat exchanger systems in refrigeration and air-conditioning equipment on the international market.

Founded over 80 years ago in Germany, the company developed its market and sector-oriented solutions in close personal cooperation with its customers, right from the start. Today the Güntner Group, a modern, globally-active company, combines its unique specialist expertise with top-class technical innovations to serve you and your partners in the industry, trade and service sectors.

Robert Gerle, Managing Director
Worldwide Network

An ultra-modern communication network enables the Group to utilise synergy effects in the fields of manufacturing, development and design, as well as practical competency gained from international large-scale projects, for the benefit of its customers and partners. Highly qualified, dynamic Güntner employees, consistent training programmes and a team spirit which spans the globe, all contribute toward providing you with the best results on all levels of cooperation.

The Güntner Group combines the best development, manufacturing and consultancy standards with an excellent local presence and outstanding Time-to-Market. The company maintains its worldwide presence with its own distribution companies and sales agencies.

An additional convenience: Your contacts at Güntner offer consultancy services for your local and international projects in your national language. Trade fairs, training and information events ensure that you are kept up-to-date with the latest developments. The result: Excellent planning reliability, punctual project execution and optimal performance due to well-engineered, quality products.

Güntner maintains long-term, successful relationships with its partners. The focus is on lively, solution-oriented dialogue, outstanding development competency and first-rate product availability.
The Ideal Product for Each Customer-Specific Application

Based on extensive experience in the field, the Group has established an especially diverse range of products, providing you with a variety of options for all application areas.

### Product Categories

#### Industrial refrigeration

#### Commercial refrigeration

#### Air-conditioning

#### Energy and process cooling

---

Die Technologien der Güntner Gruppe im Überblick

- **Trockenkühler in unterschiedlicher Bauform**
- **Besprühte Rückkühler mit Güntner HydroSpray® Intelligente Regelung und sektionweise Besprühung**
- **Hybride Trockenkühler HTK**
- **Hybride Verflüssiger HTV**
- **Advanced Drycooler ADC**
- **Adiabatisches System mit befeuchteten Matten zur Vorkühlung**
- **Plattenwärmeübertrager gedichtet oder modulverschweißt bis zu einer Druckleistung von 63 bar**
## New Products

### HydroSpray® – Water as turbo booster for the performance
- Save on energy costs
- Reduce medium/condensing temperature
- Increase COP value
- Calculation with set-up point climate data

**Basic:**
Spraying is switched on above a specified switching point. All fan chambers are sprayed at the same time (up to 300 h/a).

**Professional:**
The unit is sprayed in sections, as required (up to 1000 h/a). Water consumption is reduced by 50% compared with conventional systems.

### The new GFD drycooler – optimised for container transport!
- Optimised dimensions
- High capacity
- Small footprint
- Simple loading and unloading
- Simple crane transport without cross beam
- Torsion-resistant construction, min. number of base feet

### GACC – the universal solution for commercial refrigeration
- Highly efficient air cooler with staggered tube pattern
- 22 unit types for capacities of 1 – 61 kW
- Compact casing
- Reduced transport costs due to optimised packaging dimensions
- Casing made of aluminium, powder-coated
- Hinged drip tray and drip plate
- Bend cover with hinges

### The Güntner Agri cooler – the air cooler for agricultural products
- Low moisture loss due to optimised heat exchanger
- High air volume flow
- Forced draught fans with air guiding sheet
- Compact casing for maximum stacking height
- Up to 6 fans
- Easy to clean with hinged tray and hinged drip plate

### Variable air cooler for industrial refrigeration
- Proven Güntner quality
- Large capacity range (10 – 120 kW)
- All refrigerants (HFC, NH₃, CO₂, fluids)
- All defrosting types
- Versatile material combinations
- Various fan concepts
- Various casing types

### microox® – now also for flammable refrigerants
- The GVHX’s low refrigerant volume makes it an ideal condenser for applications with flammable refrigerants.
  - TÜV (German certification authority) approval for fluid group 1 refrigerants
  - Güntner microox® is approved for hydrocarbons such as propane and propene.
  - microox® technology for condensers
    - Up to 30% lighter
    - Up to 75% less refrigerant charge volume
    - Environment-friendly and recyclable

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    - Up to 30% lighter
    - Up to 75% less refrigerant charge volume
    - Environment-friendly and recyclable

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</tbody>
</table>
Ideally Tailored Components for Each Application Ensure Efficient Operation.

On a technical level, this combination flexibility facilitates solutions which achieve high efficiency: Güntner’s electronic control components offer reliability and save time.

A comprehensive range of accessories allow for optimal adjustment to local operating conditions. Specialised Güntner solutions are tailored to individual markets on all continents on the basis of systematic needs analyses and consistent product management. The Güntner Group implements quality management across the globe, thereby fulfilling the high quality and performance requirements specified in the best and most recent relevant standards, such as: DIN EN ISO 9001; DIN EN ISO 14001; EUROVENT CERTIFY ALL; ASME B31.5; ARI, ASHRAE and UL.

Regular audits are conducted in the Group’s seven production sites worldwide to ensure optimal material quality and manufacturing processes.
The Most Important Information at www.guentner.eu

- Swift product selection
  Quick access to the product you want

- Product photos

- Product properties
  All product benefits at a glance

- Specialist information/
  Application tips

- Information brochures
  Data sheets
  Operating instructions

- Certificates
  for the respective product

- Available references
  on the respective product

- Your worldwide contact partners

- GPC download
  Free configuration software

- The all-in-one solution
  for commercial refrigeration!

- High efficiency
  wall/ceiling-mounted air cooler
  0.5 – 80 kW

- Empfehlungen zur Materialauswahl
  Güntner Wissen für verschiedene Einsatzfälle und Umgebungsbedingungen
  Korrosion vermeiden durch optimale Materialauswahl

- Güntner Info
  HFC
  CO2
  Glycol
  GHF
  CXGHF
  GGHF

- Free configuration software
  GPC download

- Product overview
  Options
  Download documentation
  XDR
  GHF
  CXGHF
  GGHF
  GPC
  CO2
  Glyco
  HFC
  Download
Perform Thermodynamic Configurations and Generate Quotes Quickly and Safely

The Güntner Product Calculator GPC configuration software allows you to quickly and easily configure the right unit for your individual application. Simply enter the required parameters in the convenient entry screen on the GPC.

An exact thermodynamic configuration is performed and a selection of suitable units is provided, while taking into account the operating conditions and accessories you have selected. After selecting the optimum unit, the GPC generates a data sheet with technical data, dimensions, weights and prices for you.

Use our GPC for swift and precise selection of heat exchangers, control units and switch cabinets!

Your benefits at a glance:
- Precise thermodynamic calculation, even with uncommon usage areas
- Quick and reliable design work
- Individual setting of different units possible for each entry field
- 15 languages
- Current prices and delivery times can be called up
- Shows units in stock with short delivery times
- Night limit, fans in accordance with intended use and energy efficiency

Your free Güntner Product Calculator (GPC) to download: www.guentner.eu
Short Delivery Times for Units Kept in Stock

When performing a search, the GPC configuration software indicates which items are in stock and can be delivered in just 4 days. The storage symbol appears on these units.

**Readily Available Units kept in Stock**
- Evaporators: GDF, DHF, GHF, GACC
- Condensers: GVM, GVM, GVH, GVX, GVHX

Rapid availability and reliable delivery are the be-all and end-all of customer satisfaction. Our in-house logistics department enables us to amply fulfill our customers’ expectations in this respect.
Material Diversity for Each and Every Application

The resistance of a material in a heat exchanger is put to the test both internally and externally. From the inside, the chemical properties, pressure and temperature of the refrigerant exert an influence on the tubes or profiles, while the more or less aggressive ambient air (ammonia, sulphuric acid, salt, vinegar, etc.) exerts an influence from the outside.

The versatile material combination options are based on experience and comprehensive tests and analyses. Güntner heat exchangers can be configured for customised applications by selecting the appropriate materials.

Just ask us – we'll be happy to advise you!

Different applications with aggressive atmosphere require targeted material selection. We have compiled a brochure with recommendations for material selection (sorted according to applications).

www.guentner.eu/know-how/application-tips
GDF
Highly efficient air cooler for commercial refrigeration in a particularly compact design for space-saving installation
0.7 – 17 kW

Advantages
- Flat casing
- Space-saving installation
- Blow through fans
- Easy to clean
- Units kept in stock ensure short delivery times

Easy to Install
- Ceiling mounting brackets with slotted hole for easy installation
- Fans wired on connection socket
- Empty tube for defrost sensor
- Easy-to-remove side cover
- Schrader valve on outlet

Inspection and Cleaning
- Hinged tray and heating sheet
- Easy dismantling, no parts that could get lost

HACCP Hygiene Certificate
- Especially suitable for processing rooms in foodstuffs industry
- All materials used approved for foodstuffs
- Easy to clean

Heat Exchanger
- Staggered tube pattern 50 x 25 mm
- Internally-ribbed special copper tubes for HFC and CO2
- Surface-corrugated aluminium fins for high heat transfer

Casing
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003
- Stainless steel ceiling mounting

Drip tray
- Separate drip plate
- Thermally-decoupled tray (condensation free)

Fans
- EC fans for high energy efficiency
- 2 fan types for different sound levels
- Standard with two speeds
- Internal motor protection with thermocontacts
- Can be used with 230 V. 1~. 50 – 60 Hz
- Cable push-in connector simplifies fan replacement

Options / Accessories
- Epoxy-resin coated fins
- Electric defrost heater for coil and tray
- Core tubes made of stainless steel
- Casing and tray made of stainless steel

Air Configuration

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition ( t_0 / T_{LE} )</th>
<th>Nominal Capacity with Fin Spacing of 4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDF N</td>
<td>-8 / 0 °C</td>
<td>0.8 – 11.4 kW</td>
</tr>
<tr>
<td></td>
<td>-25 / -18 °C</td>
<td>0.5 – 7.5 kW</td>
</tr>
<tr>
<td>GDF L</td>
<td>-8 / 0 °C</td>
<td>0.7 – 9.2 kW</td>
</tr>
<tr>
<td></td>
<td>-25 / -18 °C</td>
<td>0.6 – 7.6 kW</td>
</tr>
<tr>
<td>CXGDF N</td>
<td>-25 / -18 °C</td>
<td>1.4 – 9.8 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5 – 7.6 kW</td>
</tr>
<tr>
<td>CXGDF L</td>
<td>-25 / -18 °C</td>
<td>1.4 – 9.8 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1.5 – 7.6 kW</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition ( t_0 / T_{LE} )</th>
<th>Nominal Capacity with Fin Spacing of 7 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDF N</td>
<td>-3 / 10 °C</td>
<td>1.2 – 14.9 kW</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.9 – 12.3 kW</td>
</tr>
<tr>
<td>GDF L</td>
<td>-3 / 10 °C</td>
<td>1.2 – 14.9 kW</td>
</tr>
</tbody>
</table>


Available Defrosting Types

<table>
<thead>
<tr>
<th>Circulation air</th>
<th>Electric</th>
<th>Hot gas</th>
<th>Brine</th>
<th>Water</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>


Available Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Tube</th>
<th>Fin</th>
<th>Casing</th>
<th>Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aluminium</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium, epoxy-resin coated</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel, hot-dip galvanised</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheet steel, galvanized</td>
<td>✔</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless steel</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
<td>✔</td>
</tr>
</tbody>
</table>


Suitable Applications

- Cold storage cells
- Small cold storage room
- Sales rooms
- Commercial, Gastronomy
DHF
Highly efficient air cooler for commercial refrigeration in slimline design with dual air discharge

2 – 15 kW

Advantages
- Flat design
- Even air distribution
- Low draught air level
- Units kept in stock ensure short delivery times

Easy to Install
- Ceiling mounting brackets with slotted hole for easy installation
- Fans wired on connection socket
- Empty tube for defrost sensor
- Easy-to-remove side cover
- Only one condensation drain per unit
- Schrader valve on outlet

Inspection and Cleaning
- Hinged tray and heating sheet, drain line does not have to be dismantled

Heat Exchanger
- Staggered tube pattern 50 x 25 mm
- Internally-ribbed special copper tubes for HFC
- Surface-corrugated aluminium fins for high heat transfer

Casing
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003

Tray
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003
- Separate drip plate
- Thermally-decoupled tray (condensation free)
- Collection tray for condensation with only one drain

Fans
- Proven quality fans
- 3 fan types for different sound levels
- Internal motor protection with thermocontacts
- Wired on connection socket in factory
- 230 V, 1~, 50 Hz or 60 Hz

Options / Accessories
- Epoxy-resin coated fins
- Electric defrost heater for coil, wired on connection socket
- Factory-fitted thermostatic expansion valve

Air Configuration
- Blow through fans

Product Types / Refrigerant / Capacity

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition</th>
<th>Nominal Capacity with Fin Spacing of 4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHF N HFC</td>
<td>-8 °C / 0 °C</td>
<td>2.86 – 15.32 kW</td>
</tr>
<tr>
<td>DHF L1 HFC</td>
<td>-8 °C / 0 °C</td>
<td>2.29 – 11.89 kW</td>
</tr>
<tr>
<td>DHF L2 HFC</td>
<td>-8 °C / 0 °C</td>
<td>1.95 – 9.62 kW</td>
</tr>
</tbody>
</table>

N = Normal  L1 = Reduced-noise design  L2 = Quiet design

Available Defrosting Types

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<tr>
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<th>Brine</th>
<th>Water</th>
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<tr>
<td>☑</td>
<td>☑ coil</td>
<td>—</td>
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<td>—</td>
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</table>

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<th>Tube</th>
<th>Fin</th>
<th>Casing</th>
<th>Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlMg</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Aluminium</td>
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</tbody>
</table>

Standard version

Heat Exchanger
Type: F 50 x 25 mm
Staggered tube pattern
Fin spacing: 4 mm

Casing
Type: F 50 x 25 mm
Staggered tube pattern
Fin spacing: 4 mm

Casing
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003

Suitable Applications
Room temperatures above 0 °C
Picking areas
Corridors
Sales rooms
Advantages
- Compact construction
- Optimized casing dimensions for transport and storage
- No condensation formation with thermally-decoupled tray
- Units kept in stock ensure short delivery times

Easy to Install
- Hinged side cover with hinges
- Hinges allow hang-out
- Ceiling mounting brackets with slotted hole
- Schrader valve on outlet
- Easy access to all components

Inspection and Cleaning
- Easy access to all components
- Hinged tray
- Hinged heating sheet

Heat Exchanger
- Staggered tube pattern 50 x 25 mm
- Internally-ribbed special copper tubes
- Surface-corrugated aluminium fins for high heat transfer

Casing
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL9003
- Stainless steel ceiling mounting

Drip tray
- Separate drip plate
- Thermally-decoupled tray (condensation free)
- Condensation drain measuring ¾” and 1¼”

Fans
- EC fans for high energy efficiency
- Standard with two speeds (for fan diameter of 500 mm)
- Motor protection with thermocontacts
- Up to construction size 450:
  230 V, 1~, 50 Hz or 60 Hz
- Up to construction size 500:
  400 V, 3~, 50 Hz or 60 Hz

Options / Accessories
- Epoxy-resin coated fins
- Electric defrost heater for coil and tray
- Güntner Streamer for wide air throw

Air Configuration

Fans
- 1 – 4
- 315 / 400 / 500 mm

Available Defrosting Types
- Circulation air
- Electric
- Hot gas
- Brine
- Water

GACC
- HFC
- -8 / 0 °C
- 1 – 61 kW
- 1 – 55 kW
- -25 / -18 °C
- 1 – 46 kW
- 1 – 39 kW

Heat Exchanger
- Type: F 50 x 25 mm
- Staggered tube pattern
- Fin spacing: 4 / 7 mm

Available Material
- Tube
- Fin
- Casing
- Tray

Product Types / Refrigerant / Capacity

Material
- AlMg
- Aluminium
- Copper
- Aluminium, epoxy-resin coated
- Steel, hot-dip galvanized
- Stainless steel

Suitable Applications
- Commercial refrigeration / industrial refrigeration
- Storage rooms and many types of cold storage rooms with low and medium humidity
- Room temperatures +20 to -28 °C
**Advantages**
- Slimline design
- Even air distribution
- Low draught air level
- Aligned tube pattern, large heat-exchanging surface
- Many design types

**Easy to Install**
- Mounted on pallet in installation position
- Ceiling mounting brackets for easy installation
- Empty tube for defrost sensor
- Easy-to-remove side cover
- Schrader valve on outlet
- Fans wired on connection socket (optional)

**Inspection and Cleaning**
- Hinged tray

**High Operational Reliability and Leak-Safety**
- Proven Güntner floating coil principle (refrigerant carrying tubes do not make contact with the casing, increases the heat exchanger’s service life)

**Heat Exchanger**
- Aligned tube pattern 50 x 50 mm (or 60 x 60 mm)
- Special copper tubes for HFC, coolant and CO2
- Stainless steel tubes for NH3 (or hot-dip galvanised steel)
- Surface-corrugated aluminium fins for high heat transfer

**Casing**
- Corrosion-resistant aluminium alloy AlMg
- From fan diameter 650 mm, galvanized steel
- Powder-coated with RAL 9003

**Tray**
- Corrosion-resistant aluminium alloy AlMg
- Separate drip plate
- Thermally-decoupled tray (condensation free)
- Powder-coated with RAL 9003

**Fans**
- Proven quality fans
- Internal motor protection with thermocontacts
- Fan diameter 400 mm: 230 V, 1~/~ 50 Hz or 60 Hz
- Fan diameter from 450 mm: 400 V, 3~/~ 50 Hz or 60 Hz

**Options / Accessories**
- Epoxy-resin coated fins
- Fans wired on connection socket
- Factory-fitted thermostatic expansion valve
- Double tray, insulated
- Insulated fan plates
- Core tubes made of stainless steel
- Fins made of stainless steel
- Casing and tray made of stainless steel

**Product Types / Refrigerant / Capacity**

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<tr>
<th>Refrigerant</th>
<th>Operating Condition ( t_0 / T_{LE} )</th>
<th>Nominal Capacity with Fin Spacing of 7 mm</th>
<th>Nominal Capacity with Fin Spacing of 10 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>DHN HFC</td>
<td>-8 / 0 °C</td>
<td>5.5–61.0 kW</td>
<td>5.4–51.4 kW</td>
</tr>
<tr>
<td></td>
<td>-75 / -18 °C</td>
<td>4.1–45.9 kW</td>
<td>4.1–39.9 kW</td>
</tr>
<tr>
<td>ADHN NH3</td>
<td>-8 / 0 °C</td>
<td>5.4–59.8 kW</td>
<td>5.1–53.4 kW</td>
</tr>
<tr>
<td></td>
<td>-75 / -18 °C</td>
<td>4.0–44.8 kW</td>
<td>3.9–41.4 kW</td>
</tr>
<tr>
<td>DGN Coolant</td>
<td>-3 / 10 °C</td>
<td>6.9–88.2 kW</td>
<td>7.4–79.6 kW</td>
</tr>
</tbody>
</table>

**DHN**
Air cooler for industrial refrigeration with slimline design and dual air discharge
4 – 90 kW

**Available Defrosting Types**
- Circulation air
- Electric
- Hot gas
- Brine
- Water

**Mode / Refrigerant / Capacity**

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition ( t_0 / T_{LE} )</th>
<th>Nominal Capacity with Fin Spacing of 8 mm</th>
<th>Nominal Capacity with Fin Spacing of 12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GDS NH3</td>
<td>-8 / 0 °C</td>
<td>2.7–41.2 kW</td>
<td>2.8–21.8 kW</td>
</tr>
<tr>
<td></td>
<td>-25 / -18 °C</td>
<td>1.8–30.1 kW</td>
<td>2.8–21.8 kW</td>
</tr>
</tbody>
</table>

**Available Material**
- Material: Tube Fin Casing Tray
- AlMg
- Aluminum
- Copper
- Aluminium, epoxy-resin coated
- Steel, hot-dip galvanised
- Steel, galvanised
- Stainless steel

**Heat Exchanger**
- Type: N 50 x 50 mm or S 60 x 60 mm
- Aligned tube pattern
- Fin spacing: 4 / 7 / 10 mm

**Suitable Applications**
- Picking areas
- Loading ramps
- Cold storage rooms with low air speed
Air Configuration

Available Defrosting Types

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition t0 / TLE</th>
<th>Nominal Capacity with Fin Spacing of 7 mm</th>
<th>10 mm</th>
<th>12 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHN / GHF HFC</td>
<td>-8 / 0 °C</td>
<td>0.8 – 210 kW</td>
<td>0.8 – 226 kW</td>
<td>4.6 – 198 kW</td>
</tr>
<tr>
<td>-25 / -18 °C</td>
<td>0.7 – 142 kW</td>
<td>0.6 – 162 kW</td>
<td>3.6 – 145 kW</td>
<td>3.3 – 137 kW</td>
</tr>
<tr>
<td>AGHN NH3</td>
<td>-8 / 0 °C</td>
<td>4.7 – 237 kW</td>
<td>5.3 – 230 kW</td>
<td>4.4 – 193 kW</td>
</tr>
<tr>
<td>-25 / -18 °C</td>
<td>3.5 – 168 kW</td>
<td>3.9 – 171 kW</td>
<td>3.3 – 147 kW</td>
<td>22.0 – 136 kW</td>
</tr>
<tr>
<td>GGNH / GHGF Coolant</td>
<td>-8 / 0 °C</td>
<td>1.3 – 155 kW</td>
<td>1.3 – 155 kW</td>
<td>7.4 – 148 kW</td>
</tr>
<tr>
<td>-25 / -18 °C</td>
<td>1.4 – 41 kW</td>
<td>1.4 – 141 kW</td>
<td>9.2 – 122 kW</td>
<td>8.3 – 112 kW</td>
</tr>
<tr>
<td>CPGHN CO2</td>
<td>-45 °C / -35 °C</td>
<td>6.1 – 127 kW</td>
<td>5.1 – 109 kW</td>
<td>4.7 – 101 kW</td>
</tr>
</tbody>
</table>

Cubic

GHN / GHF

Air cooler for industrial refrigeration with cubic design for a wide range of applications

4 – 240 kW

Advantages
- Robust design
- Suction fans, wide air throw
- Large variety of types
- Many design types

Easy to Install
- Ceiling mounting brackets for easy installation
- Empty tube for defrost sensor
- Side cover with hinges and quick-release fastener
- Schraeder valve on outlet

Inspection and Cleaning
- Hinged tray

HACCP Hygiene Certificate
- Suitable for rooms used for food processing
- All materials used approved for foodstuffs
- Drip tray with edges inclined at 45° angle
- Easy to clean

High Operational Reliability and Leak-Safety
- Proven Güntner floating coil principle (refrigerant carrying tubes do not make contact with the casing; increases the heat exchanger’s service life)

Heat Exchanger
- Aligned or staggered tube pattern
- Special copper tubes for HFC, coolant and CO2
- Stainless steel tubes for NH3 or steel, hot-dip galvanised
- Surface-corrugated aluminium fins for high heat transfer

Casing
- Corrosion-resistant aluminium alloy AlMg up to 500 mm fan diameter
- Galvanized steel, from 710 mm fan diameter
- Powder-coated with RAL 9003
- Hinged side cover with hinges
- Fans positioned at an angle (from 710 mm) improve the air throw and defrosting behaviour

Tray
- Hinged and thermally-decoupled (condensation free)
- Separate drip plate
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003
- Large condensation drain with 45° incline

Fans
- Proven quality fans
- Standard with two speeds (for fan diameter of 500 mm)
- Motor protection with thermocontacts
- 230 V 1~, 50 Hz or 60 Hz (up to construction size 450)
- 400 V 3~, 50 Hz or 60 Hz
- Wired on connection socket in factory (GHF)

Options / Accessories
- Epoxy-resin coated fins
- Double, insulated tray
- Core tubes made of stainless steel
- Casing and tray made of stainless steel
- Factory-fitted thermostatic expansion valve
- Güntner Streamer for increased air throw
- Defrost flap for quick, efficient defrosting
- Air sock connection
- Fan casing for 45° / 90° downdraft
- Legs
- Wired on connection socket in factory (GHF)

Available Material

<table>
<thead>
<tr>
<th>Material</th>
<th>Tube</th>
<th>Fin</th>
<th>Casing</th>
<th>Tray</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlMg</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Aluminium</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium, epoxy-resin coated</td>
<td>☑</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheet steel, galvanised</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Stainless steel</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

Suitable Applications

- Room temperature -28 to +20 °C
- Medium and high humidity
- Process Cooling
Fans
- 450 / 500 mm
- Available Defrosting Types
- Circulation air
- Electric
- Hot gas
- Water
- Coil
- Coil
- Water

Heat Exchanger
- Staggered tube pattern 50 x 25 mm
- Special copper tubes for HFC and coolant
- Stainless steel tubes for NH₃
- Surface-corrugated aluminium fins for high heat transfer

Casing
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003

Tray
- Double tray, thermally-decoupled (condensation free)
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003
- Hinged for easy cleaning

Fans
- Proven quality fans
- Low noise emission due to low speed
- Internal motor protection with thermocontacts
- 230 V, 1~ 50 Hz or 60 Hz

Options / Accessories
- Casing and tray made of stainless steel
- Epoxy-resin coated fins
- Core tubes and fins made of stainless steel
- Electric defrost heater for coil, wired on connection socket
- Heating / climatization element
- Manual speed controller

Inspection and Cleaning
- Large, hinged drip trays with quick-release fasteners allow for easy access to all components
- Easy inspection and cleaning

Easy to Install
- Adjustable ceiling mounting brackets for easy installation
- Fans wired on connection socket
- Empty tube for defrost sensor
- Schrader valve on outlet

Advantages
- Special design for draught-free air distribution
- Air suction from above
- Dual air discharge
- Low noise emissions due to low-speed fans

GBK
Air cooler for processing rooms with room temperatures above 0 °C for draught-free air distribution
8 – 50 kW

Air Configuration
Blow through fans

Product Types / Refrigerant / Capacity
<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition t₀ / TLE</th>
<th>Nominal Capacity with Fin Spacing of 4 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>GKB</td>
<td>HFC 0 / 10 °C</td>
<td>8.7 – 55.2 kW</td>
</tr>
<tr>
<td>GGBK</td>
<td>Coolant -3 / 10 °C</td>
<td>6.3 – 49.4 kW</td>
</tr>
<tr>
<td>AGBK</td>
<td>NH₃ on request</td>
<td>5.3 – 34.9 kW</td>
</tr>
</tbody>
</table>

Available Defrosting Types
- Circulation air
- Electric
- Hot gas
- Water
- Coil
- Coil
- Water

Available Material
<table>
<thead>
<tr>
<th>Material</th>
<th>Tube</th>
<th>Fin</th>
<th>Casing</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlMg</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
<tr>
<td>Aluminium</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Aluminium, epoxy-resin coated</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Steel, hot-dip galvanised</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Sheet steel, galvanised</td>
<td>☑</td>
<td>☑</td>
<td></td>
</tr>
<tr>
<td>Stainless steel</td>
<td>☑</td>
<td>☑</td>
<td>☑</td>
</tr>
</tbody>
</table>

Special Process
 Geeignete Anwendungen
- Low noise emissions
- Draught-free air distribution
- Packing and sales rooms

Room temperatures above 0 °C

Eurovent
TÜV
**GACA**

Air cooler for fruit and vegetables with blow through fans

4 – 115 kW

---

**Advantages**
- Blow through fans
- Large heat exchanger surfaces
- Design for HFC or glycol

**Maximum Use of Room Height**
- Flat casing design
- Air-guiding sheet for raising the airflow
- Unit length up to 6 m

**Low Moisture Loss**
- Through optimized tube circuiting
- Large heat exchanger surfaces
- Calculation with small \( \Delta t_1 \)
- High airflow volumes

**Even Air Distribution**
- Blow through fans
- High air circulation rates
- No temperature stratification in storage room

**Easy Inspection and Cleaning**
- With hinged tray
- And hinged heating sheet

**High Operational Reliability and Leak-Safety**
- Proven Güntner floating coil principle (refrigerant carrying tubes do not make contact with the casing; increases the heat exchanger’s service life)

---

**Heat Exchanger**
- Special copper tubes for HFC
- Surface-corrugated aluminium fins for high heat transfer

**Casing**
- Sheet steel, galvanized
- Powder-coated with RAL 9003
- Hinged side cover with hinges
- Air-guiding sheet

**Tray**
- Hinged and thermally-decoupled (condensation free)
- Separate drip plate (hinged)
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003

**Fans**
- Proven quality fans
- Standard with two speeds (from fan diameter 500 mm)
- Motor protection with thermocontacts
  - 230 V, 1~; 50 Hz or 60 Hz (up to construction size 450)
  - 400 V, 3~; 50 Hz or 60 Hz

---

**Options / Accessories**
- Epoxy-resin coated fins
- Heating element for drying and heating

---

**Air Configuration**

<table>
<thead>
<tr>
<th>Blow through fans</th>
</tr>
</thead>
</table>

---

**Product Types / Refrigerant / Capacity**

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition</th>
<th>Nominal capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GACA HFC</td>
<td>-8 / 0 °C</td>
<td>4 – 115 kW</td>
</tr>
<tr>
<td>Coolant</td>
<td>-3 / 10 °C</td>
<td>4 – 115 kW</td>
</tr>
</tbody>
</table>

---

**Available Defrosting Types**

- Circulation air
- Electric
- Brine

- ✔️ - Coil
- ✗ - Tray
- ✔️ - Coil

---

**Available Material**

<table>
<thead>
<tr>
<th>Material</th>
<th>Tube</th>
<th>Fin</th>
<th>Casing</th>
</tr>
</thead>
<tbody>
<tr>
<td>AlMg</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Copper</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aluminium, epoxy-resin coated</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steel, hot-dip galvanised</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sheet steel, galvanized</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Stainless steel</td>
<td>✔</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- ✔️ Standard version

---

**Suitable Applications**

- Fruit and vegetable storage
- Maximum room height
- Low moisture loss
- Easy cleaning
Advantages
- Casing for floor mounting
- Fans with high airflow and external pressure
- Blow through fans ensure uniform air distribution over the cooled or frozen goods

Easy to Install
- 8 different unit sizes available
- Easy floor installation
- Empty tube for defrost sensor
- Schrader valve on outlet

Inspection and Cleaning
- Hinged fan doors on request

High operational reliability and leak-safety
- Proven Güntner floating coil principle (refrigerant carrying tubes do not make contact with the casing, increases the heat exchanger’s service life)

Efficient, Easy Operation
- High efficiency due to optimal airflow routing
- Excellent reliability due to simple construction

Heat Exchanger
- Aligned tube pattern 50 x 50 mm
- Special copper tubes for HFC and CO₂
- Stainless steel tubes for NH₃
- Surface-corrugated aluminium fins for high heat transfer

Casing
- Galvanized steel, unpainted
- Legs for floor mounting

Tray
- Hinged
- Separate drip plate
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003
- Large condensation drain

Fans
- Fans with external pressure 50 or 100 Pa
- Standard with two speeds
- Motor protection with thermocontacts
- 400 V, 3~ – 50 Hz or 60 Hz

Options / Accessories
- Epoxy-resin coated fins
- Stepped fin spacing
- Core tubes made of stainless steel
- Casing and tray made of stainless steel
- Factory-wired thermostatic expansion valve
- Reinforced fans with higher external pressure on request

Air Configuration
Blow through fans

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition</th>
<th>Nominal Capacity with Fin Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFN</td>
<td>lₚ / Tₚ</td>
<td>7 mm 10 mm 12 mm</td>
</tr>
<tr>
<td>HFC</td>
<td>-25 / -18 °C</td>
<td>12.0 – 59.0 kW</td>
</tr>
<tr>
<td></td>
<td>-31 / -25 °C</td>
<td>9.5 – 47.0 kW</td>
</tr>
</tbody>
</table>

Product Types / Refrigerant / Capacity

<table>
<thead>
<tr>
<th>Refrigerant</th>
<th>Operating Condition</th>
<th>Nominal Capacity with Fin Spacing</th>
</tr>
</thead>
<tbody>
<tr>
<td>GFN</td>
<td>lₚ / Tₚ</td>
<td>7 mm 10 mm 12 mm</td>
</tr>
<tr>
<td>HFC</td>
<td>-25 / -18 °C</td>
<td>12.0 – 59.0 kW</td>
</tr>
<tr>
<td></td>
<td>-31 / -25 °C</td>
<td>9.5 – 47.0 kW</td>
</tr>
</tbody>
</table>

Available Defrosting Types
- Circulation air
- Electric
- Hot gas

Available Material
- AlMg
- Aluminium
- Copper
- Aluminium, epoxy-resin coated
- Stainless steel, galvanized
- Stainless steel

Suitable Applications
Goods in storage trolley cars

- Freezing rooms
- Fast-cooling rooms
- Process engineering
GSN

Floor mounted air coolers for cold storage and deep-freeze storage rooms with horizontal coil and defrost flaps (connection for air ducts)

50 – 200 kW

**Air Configuration**

<table>
<thead>
<tr>
<th>Product Types / Refrigerant / Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GSN</td>
</tr>
<tr>
<td>GSSA</td>
</tr>
<tr>
<td>GSN</td>
</tr>
<tr>
<td>GSN</td>
</tr>
</tbody>
</table>

**Fans**

- Axial fans with external pressure
- Motor protection with thermocontacts
- Wired on connection socket in factory
- 400 V, 3~, 50 Hz or 60 Hz

**Heat Exchanger**

- Aligned or staggered tube pattern
- Special copper tubes for HFC, coolant and CO₂
- Stainless steel tubes for NH₃ or steel, hot-dip galvanised
- Surface-corrugated aluminium fins for high heat transfer

**Casing**

- Galvanized steel, with legs (uncoated)
- Connecting frame for air ducts
- Defrost flaps with mechanical open/closed indicator
- Window for checking frosting in coil
- Fan chamber with large maintenance doors
- Defrost flap chamber with large maintenance doors

**Tray**

- Large drip tray, double with insulation
- Large condensation drain

**Options / Accessories**

- Stepped fin spacing
- Fans with two speeds
- Defrost heater for tray, defrost flap, coil edge and tray edge

**Advantages**

- Particularly suitable for deep-freeze storage rooms and process engineering
- Connecting frame for air ducts
- Fans with external pressure

**Installation – Inspection – Maintenance**

- High capacity in one unit
- Easy access to all components
- Large maintenance flaps

**Good Defrosting Behaviour**

- Standard with defrost flaps
- No steam discharge
- The defrosting heat remains in the casing

**Good Air Distribution**

- Air distribution with ducts
- Fans for external pressure

**High Operational Reliability and Leak-Safety**

- Proven Güntner floating coil principle (refrigerant carrying tubes do not make contact with the casing, increases the heat exchanger’s service life)

**Available Defrosting Types**

- Circulation air
- Electric
- Hot gas

**Available Material**

- Tube
- Fin
- Casing

- AIMg
- Copper
- Aluminium, epoxy-resin coated
- Steel, hot-dip galvanised
- Sheet steel, galvanized
- Stainless steel

**Suitable Applications**

- Cold storage room
- Deep-freeze storage
- Air distribution via ducts

**GSN**

Floor mounted air coolers for cold storage and deep-freeze storage rooms with horizontal coil and defrost flaps (connection for air ducts)

50 – 200 kW
**S-GHN**

Penthouse cooler for large cooling and deep-freeze storage rooms with connection for air ducts and downward air discharge

50 – 200 kW

---

**Advantages**
- Special design for set-up in a penthouse, above storage room
- Optimal use of storage room
- No air cooler in transport equipment area
- Fans with external pressure
- Connecting frame for air duct

**Easy to Install**
- Installation via roof
- Pipe-laying and installation of valves on roof
- Fans wired on connection socket

**Inspection and Cleaning**
- Easy access for inspection and service
- Fans can be replaced without dismantling the duct system
- Service work does not influence stock turnover

**No Set-Up Space Required in Storage Room**
- Maximum use of storage room
- Does not restrict automatic conveyance systems
- No damage caused by forklifts

**Good Air Distribution**
- Variable air-discharge direction due to short air ducts
- Good air distribution to accommodate varying room conditions

---

**Heat Exchanger**
- Aligned tube pattern 50 x 50 mm
- Special copper tubes for HFC, coolant and CO₂
- Stainless steel tubes for NH₃
- Surface-corrugated aluminium fins for high heat transfer
- Proven Güntner floating coil principle

**Casing**
- Sheet steel, galvanized
- Powder-coated with RAL 9003
- Hinged side cover with hinges
- Legs for floor mounting, galvanized steel

**Tray**
- Thermally-decoupled (condensation free)
- Separate drip plate
- Corrosion-resistant aluminium alloy A1Mg
- Powder-coated with RAL 9003
- Large condensation drain with 45° incline

**Fans**
- 90 ° downblow with connecting frame for air duct
- External pressure 65 Pa
- Motor protection with thermocontacts
- 400 V, 3 ~, 50 Hz or 60 Hz

**Options / Accessories**
- Epoxy-resin coated fins
- Double, insulated tray
- Defrost flap for quick, efficient defrosting

---

**Options**
- Epoxy-resin coated fins
- Double, insulated tray
- Defrost flap for quick, efficient defrosting

**Available Defrosting Types**
- Circulation Air
- Electric
- Hot gas

---

**Available Material**
- Material: A1Mg, Aluminium, copper, aluminium, epoxy-resin coated steel, hot-dip galvanised sheet steel, galvanized stainless steel

---

**Product Types / Refrigerant / Capacity**

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Refrigerant</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>GHN</td>
<td>HFC</td>
<td>50 – 200 kW</td>
</tr>
<tr>
<td>AGHN</td>
<td>NH₃</td>
<td>50 – 200 kW</td>
</tr>
<tr>
<td>CXGHN</td>
<td>CO₂</td>
<td>50 – 200 kW</td>
</tr>
<tr>
<td>CPGHN</td>
<td>CO₂</td>
<td>50 – 200 kW</td>
</tr>
<tr>
<td>GGHN</td>
<td>Coolant</td>
<td>50 – 200 kW</td>
</tr>
</tbody>
</table>

---

**Heater Exchanger**
- Fin geometry: N
- Aligned tube pattern
- Fin spacing: 4, 7, 10, 12 mm

---

**Suitable Applications**
- Logistics storage room
- Maximum use of storage room
S-GHN

Air cooler with 90° downblow for cold storage and deep-freeze storage rooms with high-bay storage

15 – 150 kW

**Advantages**
- Particularly suitable for high-bay storage exceeding 20 m in height
- Air distribution via “pool of cold air”, without ducts
- Air circulation supported by thermal effect

**Easy to Install**
- Hinged side cover with quick-release fastener
- Fans wired on connection socket
- Empty tube for defrost sensor
- Schrader valve on outlet

**Inspection and Cleaning**
- Hinged tray

**High Operational Reliability and Leak-Safety**
- Proven Güntner floating coil principle (refrigerant-carrying tubes do not make contact with the casing; increases the heat exchanger’s service life)

**Low Investment Costs**
- No air ducts required

**Low Operating Costs**
- Low air circulation rate possible
- Fans can be operated at low speed
- Efficient defrost due to Güntner defrost flap

**Heat Exchanger**
- Aligned tube pattern 50 x 50 mm
- Special copper tubes for HFC, coolant and CO₂
- Stainless steel tubes for NH₃
- Surface-corrugated aluminium fins for high heat transfer
- Proven Güntner floating coil principle

**Casing**
- Galvanized steel
- Powder-coated with RAL 9003
- Hinged side cover with hinges

**Tray**
- Thermally-decoupled (condensation free)
- Separate drip plate
- Corrosion-resistant aluminium alloy AlMg
- Powder-coated with RAL 9003
- Large condensation drain with 45° incline

**Fans**
- Proven quality fans
- Standard with two speeds
- Motor protection with thermocontacts
- 400 V, 3~, 50 Hz or 60 Hz
- Factory-wired on connection socket

**Options / Accessories**
- Epoxy-resin coated fins
- Core tubes made of stainless steel
- Double, insulated tray
- Defrost flap for quick, efficient defrosting
- Fan casing with insulation for protection against condensation

**Air Configuration**
- Draw through, 90° downblow

**Product Types / Refrigerant / Capacity**
- **GHN**  HFC   Direct expansion   15 – 150 kW
- **AGHN** NH₃   Pump operation   15 – 150 kW
- **CXGHN** CO₂   Direct expansion   15 – 150 kW
- **CPGHN** CO₂   Pump operation   15 – 150 kW
- **GGHN** Coolant   Pump operation   15 – 150 kW

**Inspection and Cleaning**
- Hinged tray

**Low Investment Costs**
- No air ducts required

**Low Operating Costs**
- Low air circulation rate possible
- Fans can be operated at low speed
- Efficient defrost due to Güntner defrost flap

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**Available Defrosting Types**
- Circulation air
- Electric
- Hot gas
- Brine
- Water

| Quantity: 1 – 4 |
| 750 / 800 / 900 mm |

- **Coil**
- **Tray**
- **Fan**
- **Defrost flap**

**Available Material**
- **Material**
- **Tube**
- **Fin**
- **Casing**
- **Tray**

<table>
<thead>
<tr>
<th>Material</th>
<th>Tube</th>
<th>Fin</th>
<th>Casing</th>
<th>Tray</th>
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<td>AlMg</td>
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<td>Copper</td>
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<tr>
<td>Stainless steel</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Special high-bay storage |
| Cold storage rooms with high-bay storage |
| Cold storage rooms with sliding bays |
| Deep-freeze storage rooms |
| Height exceeding 20 m |
### GIK

**Air cooler with insulated casing for large cold storage and deep-freeze rooms**

50 – 200 kW

---

#### Advantages
- All components are installed in an insulated casing at the factory
- Set-up either inside or outside the storage facility
- Optimal defrost results due to closable defrost flap
- Design for storage with and without air ducts

#### Easy to Install
- Refrigerating unit completely factory-fitted
- Reduces installation costs

#### Inspection and Maintenance
- Can be accessed or heated for service work
- Easy access when installed outside the storage facility
- Logistics operations are not hindered during inspection and maintenance work

---

#### Heat Exchanger S 60 x 60 mm
- Tubes and fins made of steel, hot-dip galvanised
- Proven Güntner floating coil principle

#### Heat Exchanger N 50 x 50 mm
- Special copper tubes for HFC, coolant and CO₂
- Stainless steel tubes for NH₃
- Surface-corroded aluminium fins for high heat transfer
- Proven Güntner floating coil principle

#### Casing
- Insulated casing consisting of PU sandwich elements with 170 mm wall thicknesses
- Large defrost flap with electric motor
- Flap-edge heating
- Large maintenance door

#### Tray
- Made of aluminium, integrated in casing floor (with slope toward drain / insulated by casing)

#### Axial Fans
- For Operation without Air Ducts
  - Proven quality fans
  - Standard with two speeds
  - Motor protection with thermocontacts
  - Wired on connection socket in factory
  - 400 V, 3~, 50 Hz or 60 Hz

#### Centrifugal Fans
- For Operation with Air Ducts
  - Centrifugal fans driven via v-belt
  - External pressure as specified
  - Factory-wired on connection socket
  - 400 V, 3~, 50 Hz or 60 Hz

---

#### Options / Accessories
- Stepped fin spacing
- Second maintenance door
- Switch cabinet with speed controller
- Casing insulation: wall thicknesses 100, 140, 200 mm

---

#### Suitable Applications
- Large cold storage rooms
- Large deep-freeze storage rooms
- Maximum use of storage room

---

#### Heat Exchanger
  - **Fin geometry N, S**
  - Staggered or aligned
  - Fin spacing: 7, 10, 12 mm or stepped fin spacing

---

#### Available Defrosting Types
- Circulation Air
- Electric
- Hot gas
- Brine
- Water

---

#### Available Material
- **Material**
- **Tube**
- **Fin**
- **Casing**
  - Aluminium
  - Copper
  - Aluminium, epoxy-resin coated
  - Steel, hot-dip galvanised
  - Sheet steel, galvanized
  - Stainless steel

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#### Radial Fans
**Quantity: 2 – 5**

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#### Axial Fans
**Quantity: 2 – 5**

---

#### Air Configuration
- **Draw through with centrifugal fans**
  - Air distribution with ducts
- **Blow through with axial fans**
  - Air distribution without ducts

---

#### Product Types / Refrigerant / Capacity
- **GIK**
  - HFC
    - Direct expansion
    - 50 – 200 kW
  - NH₃
    - Pump operation
    - 50 – 200 kW
  - CO₂
    - Pump operation
    - 50 – 200 kW

---

#### General Information
- The casing is closed with the defrost flap during the defrosting phase
- All components are defrosted completely
- No heat introduced into the room
- No steam discharge and no snow under the roof

---

**GIK**

Air cooler with insulated casing for large cold storage and deep-freeze rooms

50 – 200 kW

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**Special ThermoStore**
Our experts provide competent consulting services for your particular application!

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