



DUAL Compact

GADC Air Cooler for HFC, coolants and CO₂

Dual discharge air cooler
with and without integrated condensation water pump

2 – 25 kW



As you see, you see nothing

Where has the condensation water drain gone? The answer is simple. It has disappeared into the false ceiling. The condensation pipe can be installed out of sight here thanks to the option of the integrated condensation water pump. Not only does this look better, it also offers you substantial benefits:

You can clean the units without having to first dismantle a condensation pipe and can thus start cooling again more quickly.

The new tray design also offers another advantage for inspection and cleaning. The exterior tray can now be hinged open from either side. This means that service technicians can react flexibly to fittings in workspaces. The interior trays in this air cooler family are also hinged to further cut down on cleaning times.

Compact

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



» We have always been able to rely on the products from Guntner's extensive portfolio for all of our projects, even those with the most technically demanding requirements. Unfortunately when it came to the workspace evaporators in cooled Cook&Chill kitchens, though, we discovered that the DHF no longer fulfilled the modern hygiene requirements in this area. We therefore got together with Guntner to come up with a market-driven product development, which ultimately resulted in a new flagship product. This allowed us to complete the project entirely with just one manufacturer – the company Guntner. We recommend the DUAL Compact today to all of our customers for this application. «

Tilo Neumann,
CEO Sachsen-Kälte GmbH



Small pump, big impact

The condensate that forms during operation is usually discharged into the sewer system via a condensation pipe installed through the room. Thanks to our optional condensation water pump, you can make life simpler in many respects straight away.

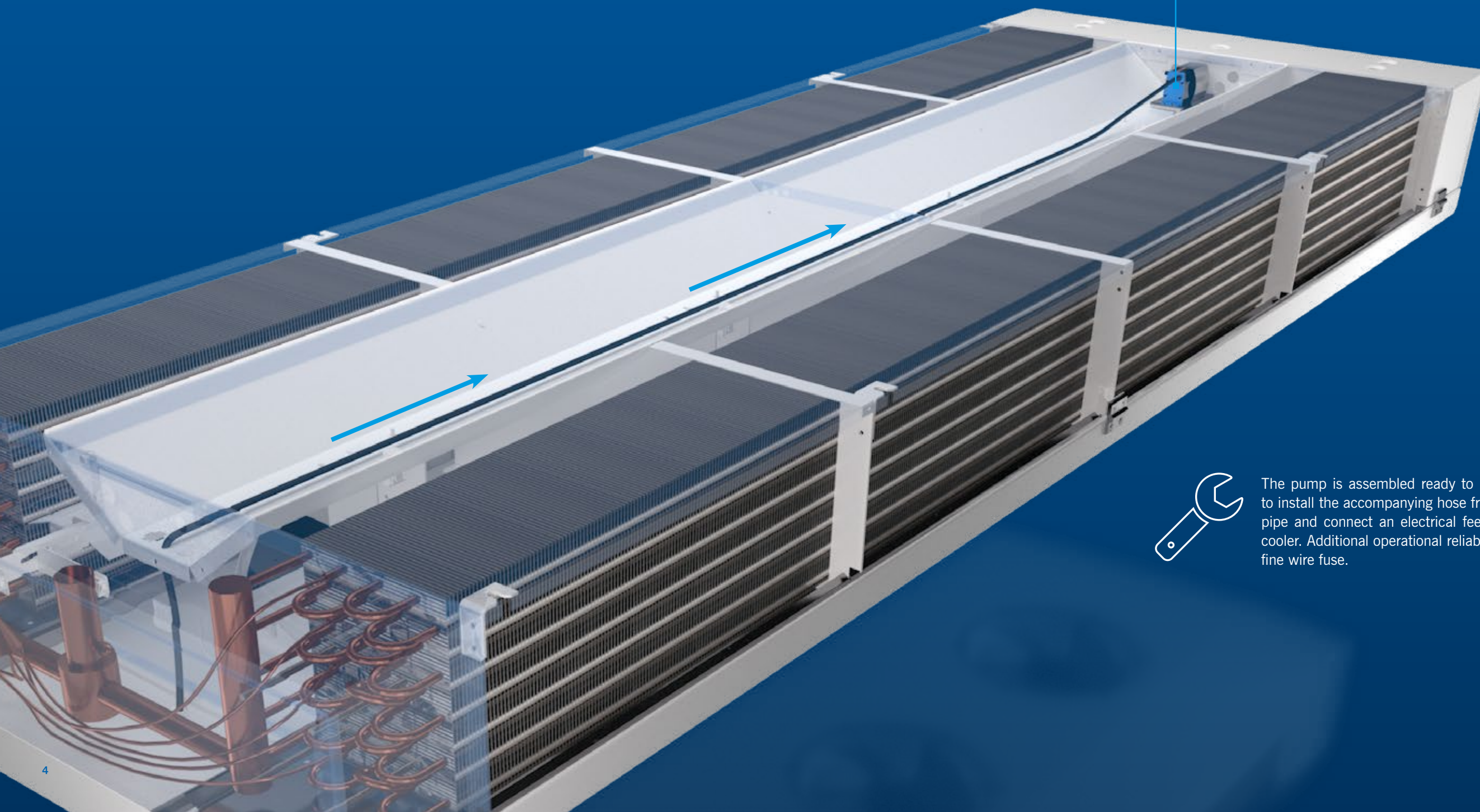
- ✓ You can install the condensation pipe in the false ceiling and thus save the effort of dismantling when regular cleaning has to be carried out.
- ✓ By installing the condensation pipe in the false ceiling there is no longer any danger that the pipe will be damaged by transport activities, etc.
- ✓ Hygiene is also enhanced at the same time: the unit is not only integrated aesthetically into the spatial geometry, rather the space can also be cleaned more easily.



- ▶ Pump performance of up to 8 l/h
- ▶ Self-priming of up to 8 m
- ▶ Suction height 5 m

The pump operates according to the principle of the rotating membrane and therefore requires practically no maintenance. The condensate is drawn into the pump through a vacuum and transported mechanically under pressure to the outlet. This system tolerates solid and/or suspended matter and also runs dry without difficulty.

- **No filter** – unique patented pump principle reliably ensures the pumping off of the condensate and solid particles
- **No noise** – near silent operation even when the pump runs dry
- **No failures** – ultra-reliable, self-priming, with long-life warranty



The pump is assembled ready to use by Güntner. You simply need to install the accompanying hose from the pump to the condensation pipe and connect an electrical feed in order to commission the air cooler. Additional operational reliability is assured by a pre-integrated fine wire fuse.

Uniform air distribution in its most elegant form

The latest generation dual discharge air cooler fulfils all requirements for modern heat exchangers. The units in the GADC family not only offer optimised designs for HFC and CO₂ and the 4 mm fin spacing for normal refrigeration and 7 mm fin spacing for low temperature applications, they also comply with the independently certified Guntner hygiene standard with all of its advantages.

Gentle cooling safeguards health

The DUAL Compact furthermore sets standards for use in air-conditioned workspaces, with the units available optionally in a special draught-reduced construction. This ensures the best working climate in these sensitive working areas both subjectively and objectively and thus minimises working days lost by employees.

Inspection and cleaning

- Best accessibility: continuous, easy-open tray
- The internal tray can also be opened easily
- With optional condensation water pump: there is no condensation pipe to be dismantled
- The thermally-decoupled tray prevents condensation water forming

G+ Guntner Hygiene Design + HACCP Certificate:
Smooth surfaces!

Large flap, conceals lots

- Low-noise operation thanks to high-quality fans
- Uniform air distribution
- Empty conduit for defrost sensor
- Heat exchanger optimised for the respective refrigerant
- Low refrigerant charge

G+ 3 year warranty

Corrosion protection and variants*

- Casing and tray are made of corrosion-resistant aluminium alloy
- Brackets for ceiling mounting made of stainless steel, integrated in the casing
- Powder coating in RAL 9003
- Coil Defender (powder coating of entire coil)*
- Epoxy resin-coated aluminium fins*

*optional

CO₂ application

- For CO₂ optimised heat exchangers

G+ Up to 80 bar as standard

Best working climate in sensitive working areas

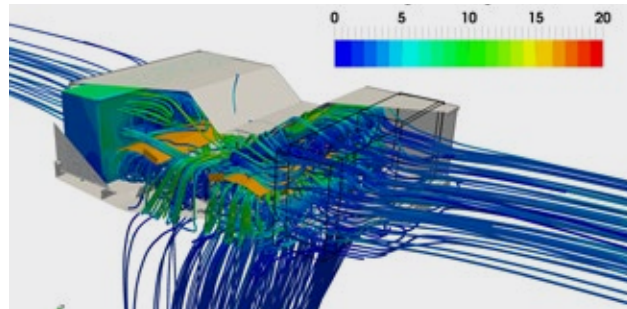
- Low air speeds can be selected
- Uniform air distribution in the cold room



Typical applications



What makes DUAL Compact so special?



Optimised air flow

Backed by our in-house expertise in CFD (Computational Fluid Dynamics), Güntner can determine the air flow properties of new units much earlier in the development process and optimise these properties accordingly.



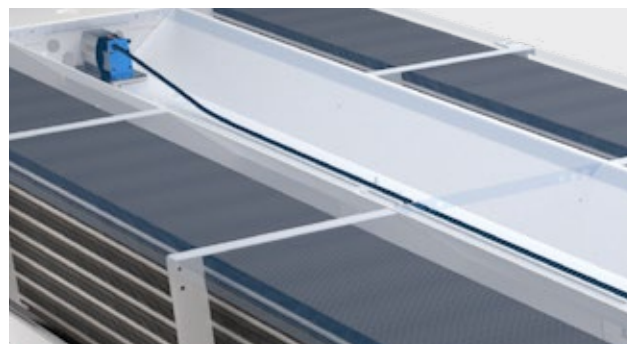
The optimal heat exchanger for every application

- 4 mm and 7 mm fin spacing
- Minimal tube volume
- Up to 80 bar operating pressure for CO₂ design
- Coil optimised for the respective refrigerant



Electrical defrost

- Empty tube for defrost sensor
- Heating with plug-in terminals wired on a terminal box
- Electric defrost heating mounted at factory*
- Electric defrost heating available as a kit for subsequent installation*



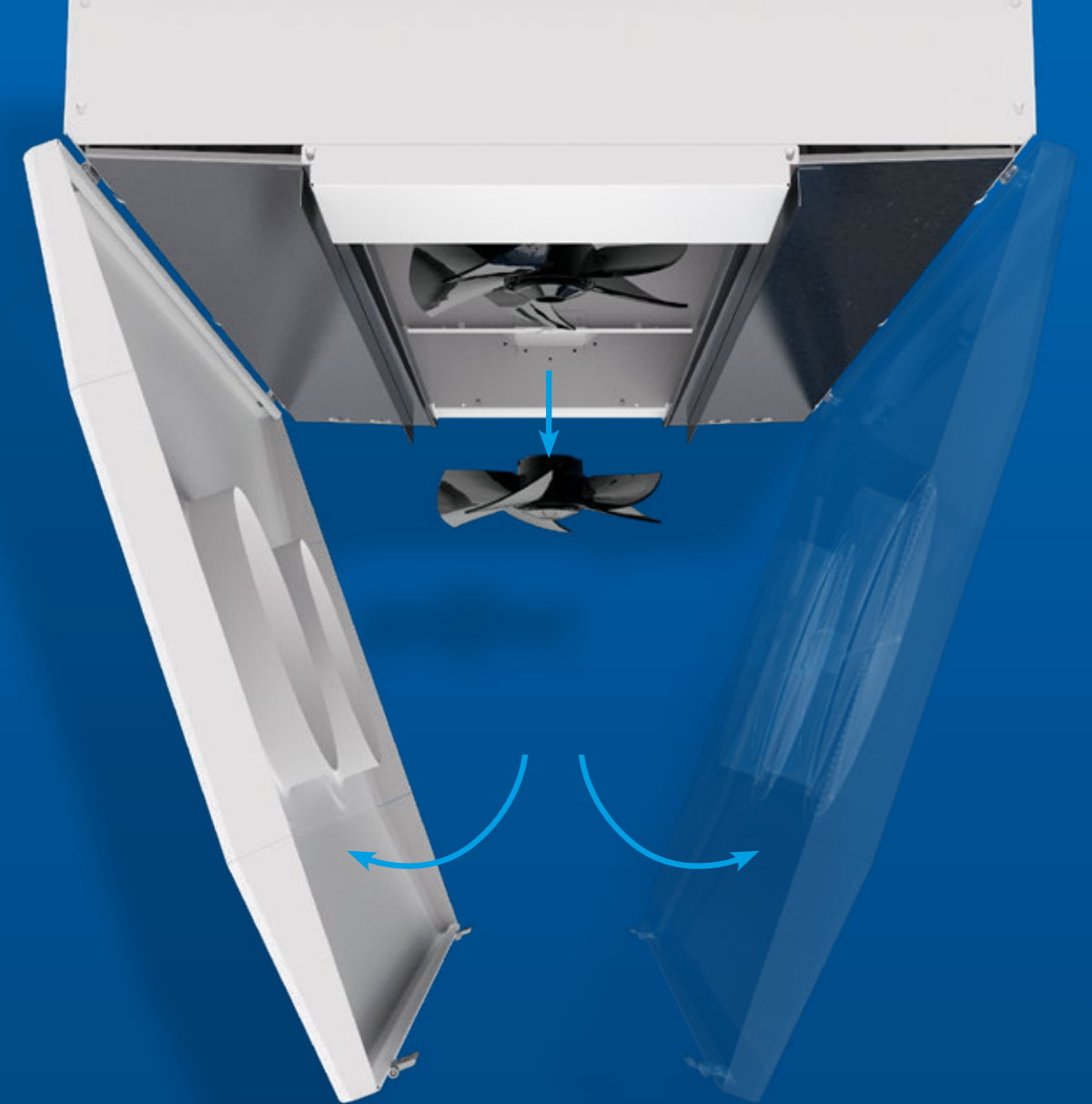
Cable installation made simple

The inner channel is positively ideal for installing the electrical feed. The cables can be installed cleanly and protected as a result.



Hygiene-certified as per HACCP

- All materials used are food-safe
- Smooth hygienic surfaces
- All components are easy to clean
- Visual inspection of the entire unit possible
- The brackets for ceiling mounting are integrated in the casing, rather than lying above it
- The edges of the tray are designed at a 45° angle



Installation and maintenance

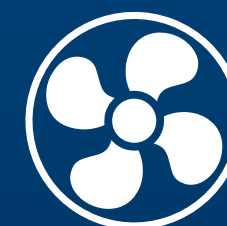
Simple assembly

All mounted parts are easily accessible. Flaps and trays can be removed and mounted again quickly and easily. The required bolting has been reduced to a minimum and designed undetachably at the appropriate point.



Simple replacement of the fan

The fan can be replaced quickly and easily in no time thanks to the plug-in connection.



Easy maintenance

All trays can be removed to facilitate inspection and cleaning. The exterior tray can be alternatively hinged open from either side. If the optionally available condensation water pump has been installed, there is no need to dismantle the condensation pipe.

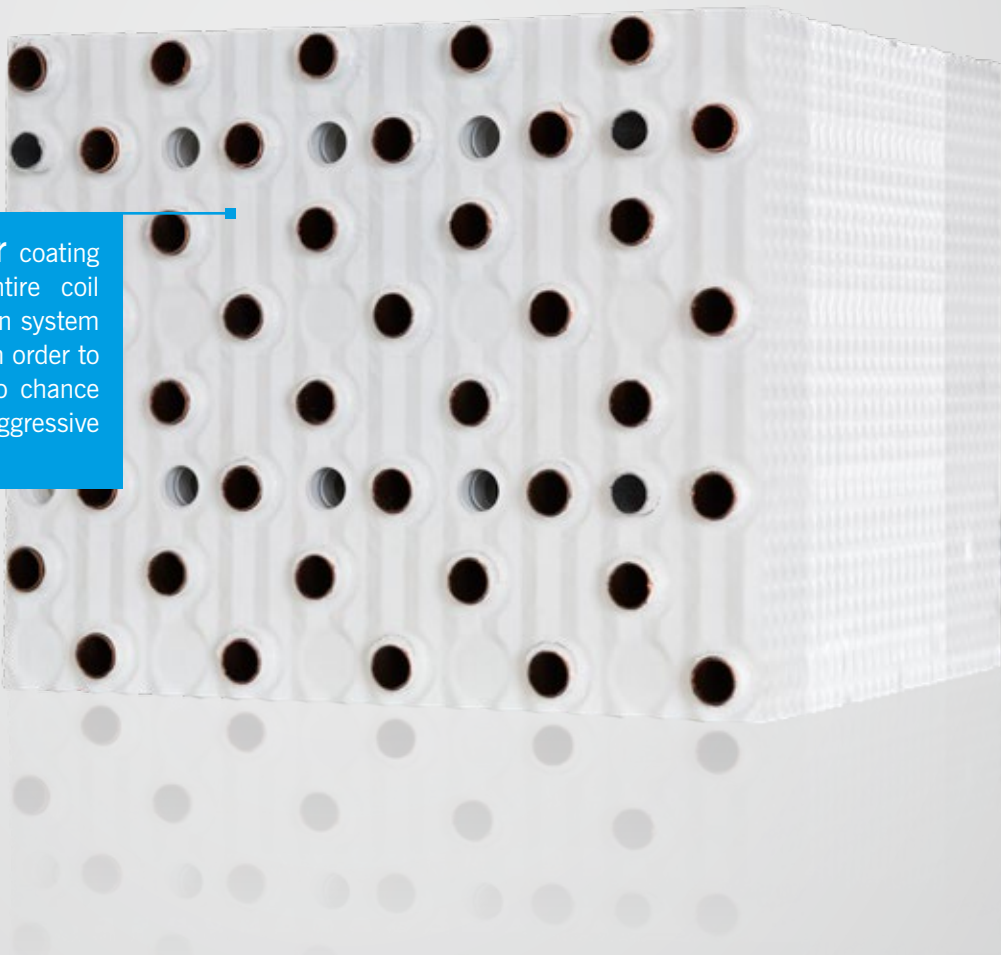


Coil Defender: Corrosion protection for air coolers in the Compact product line

Units with stainless steel core tubes and, where appropriate, epoxy resin-coated fins were used to date to prevent corrosion in cold rooms with aggressive atmospheres, such as prevail for example for processing and storing foodstuffs. The new Guntner coil with fully coated heat exchanger offers an attractive alternative, especially for applications in slightly aggressive atmospheres where corrosion protection is necessary but a stainless steel design would be over the top.

With its uniform coating over the entire coil, it reliably protects the usual copper/aluminium material combination against corrosion.

What's more, the units are hygiene-certified under HACCP, while the coating is food safe and additionally resistant to conventional cleaning agents.



The **Coil Defender** coating is applied to the entire coil including the connection system and on the bend side in order to ensure that there is no chance of being attacked by aggressive substances.

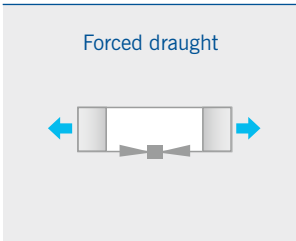
G **Corrosion protection for your application with HACCP certification:**
*Fully coated coil for reliable protection of the standard copper/aluminium material combination.
 Food-safe hygienic coating, plus HACCP certification.*

Technical details

Capacity ranges

HFC	t ₀ = - 8° C	Air inlet = 0° C	1.5 – 21 kW
CO ₂	t ₀ = - 8° C	Air inlet = 0° C	1.6 – 23.3 kW
CO ₂	t ₀ = - 25° C	Air inlet = - 18° C	1.3 – 18.66 kW
Coolant	t ₀ = - 3° C	Air inlet = 10° C	1.3 – 20 kW

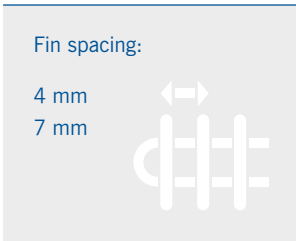
Air flow direction



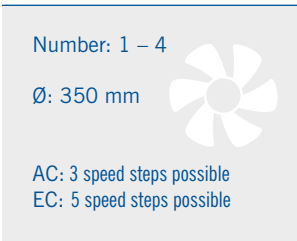
Defrosting types

Circulating air	Electric
✓	✓ Coil ✓ Tray

Heat exchanger



Fans



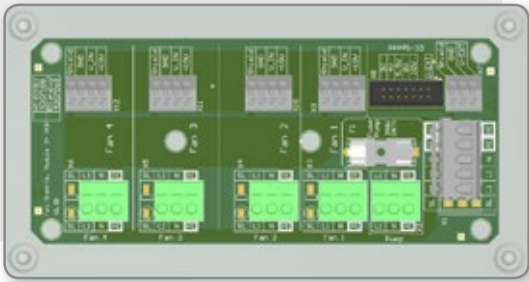
Available materials

	Tube	Fin	Casing	Tray
AlMg			✓	✓
Aluminium		✓		
Copper	✓			
Aluminium, epoxy-resin coated		✓		
Coil Defender*	✓	✓		

✓ Standard version *fully coated coil

Intelligent regulation with Guntner Controls

- Non-polar contacts: Fast, simple and safe replacement of fans
- Retrospective performance adjustment for **added capacity – less draught – reduced noise**
- Possibility to connect optional condensation water pump up to 1 A at 230 V
- Option to connect an external manual speed controller
- Choice of fan speed via jumper
- Choice of fan speed via external signal
- Precision regulation with 0 – 10 V signal



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