



SUPER VARIO

Güntner's V-shape VARIO redesigned
and extended with sustainability in mind





MEET THE NEW GÜNTNER V-SHAPE VARIO

A cooling solution that's designed with sustainability and energy-saving in mind and is configurable to meet the needs of your business, whether it's HVAC, IT Server Cooling, Process Cooling or Industrial Refrigeration. Its V-shape design means it can be integrated into your building, offering maximum capacity with minimal footprint.

The new product range offers up to 2,600kW in dry operation and can have from 4 to 24 fans. Our capacity range is now increased by 20%, allowing a greater volume flow.

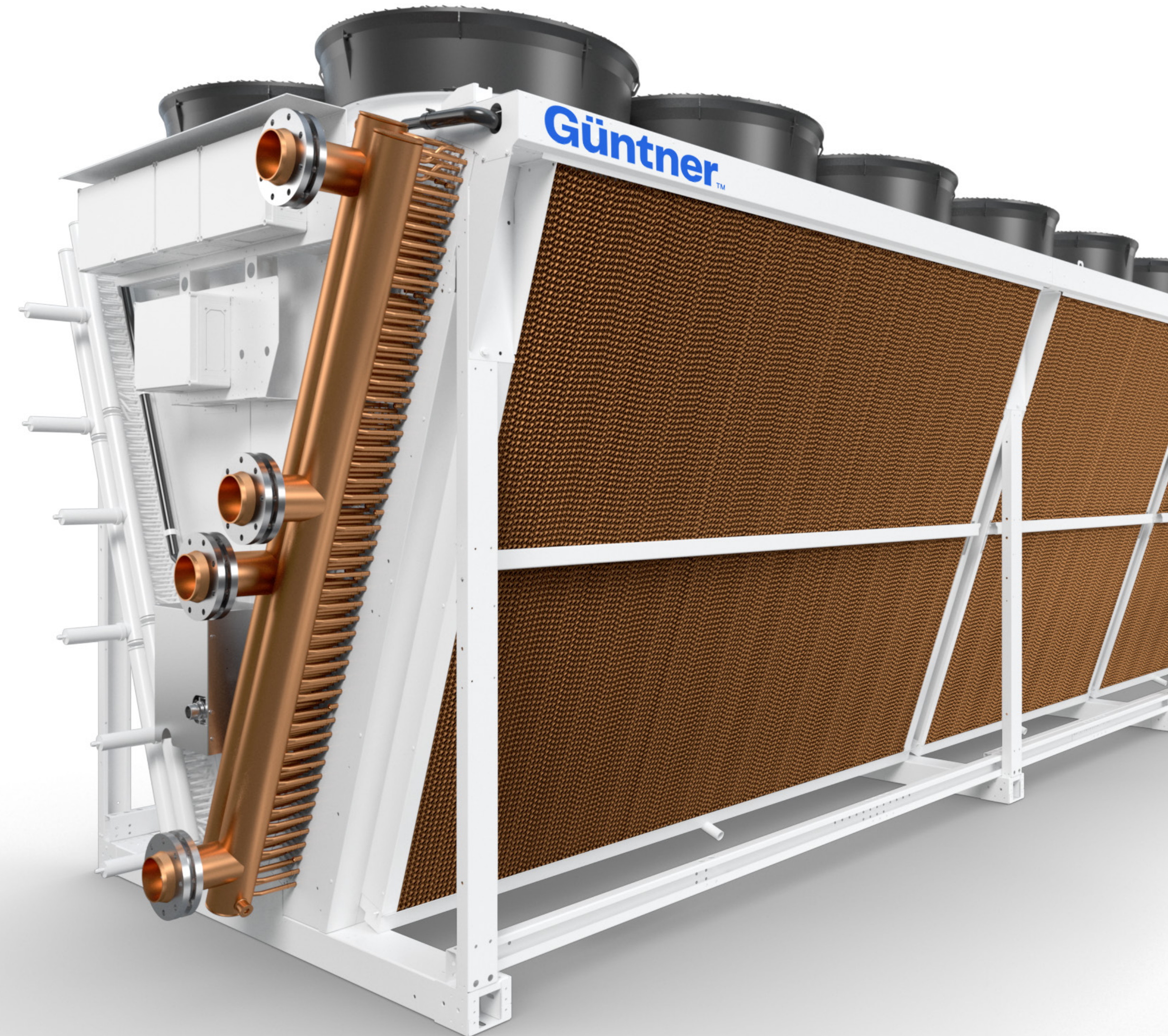




The V-shape VARIO is completely modular, allowing customers to specify casing variations (height, width and depth).

The unit comes with an optional control system, so you can fully optimise how it performs, while the addition of our hydroBLU™ technology makes for efficient and safe operating even at high ambient temperatures.

Its coil is suitable for all fluids including natural refrigerants and can include special corrosion protection.





POWERFUL AND QUIET FANS

A large variety of AC and EC fans makes the V-shape VARIO suitable for a wide range of sound and power requirements. 3-phase fan options can be selected for sound-sensitive applications, while high-speed, pressure-resistant fans are available for maximum capacities.

Units can be adapted to customers' sound requirements, with sound pressure levels from 22 to 78 db(A) available.* The energy consumption of the fans can also be optimised.

A diffuser is available which brings a significant improvement in efficiency: more power with a simultaneous reduction in noise, with constant speed at a higher air flow rate. Its coil is suitable for all fluids including natural refrigerants and can include special corrosion protection.

04 *Güntner uses exact sound data, rather than noise classes.





LOWER COSTS

TRANSPORTATION COSTS ARE SIGNIFICANTLY REDUCED

The redesigned VARIO series includes the largest and highest-capacity V-shape unit in Güntner's portfolio (2x12), developed with lorry dimensions in mind. It utilises the bed of a maximum-size curtainsider lorry down to the last centimetre, opening up new possibilities for maximum capacity in a single Güntner unit. This not only cuts down transportation costs but also reduces carbon emissions. The dimensions are also optimised for container transportation.

The units are designed for easy and quick loading and unloading with both forklift and crane, preventing as well any damage during the shipment.





LOWER COSTS

INSTALLATION COSTS AND MAINTANANCE GET A BETTER OUTPUT WITH SUPER VARIO

Installation costs are reduced with the included flange connections (up to 133 mm diameter) and threaded connections. And the casing variations allow you to select the best fit for capacity and transportation. Also, all electrical assemblies are set up in the factory for an optimal start up.

With our special corrosion protection, durability and long service life are guaranteed. The floating coil prevents tubes from being in contact with the end sheets. And Güntner's smart controllers include warn messaging for predictive maintenance.





CONFIGURE YOUR V-SHAPE VARIO AT DIGITAL SPEED

 **myGPC**
from Güntner

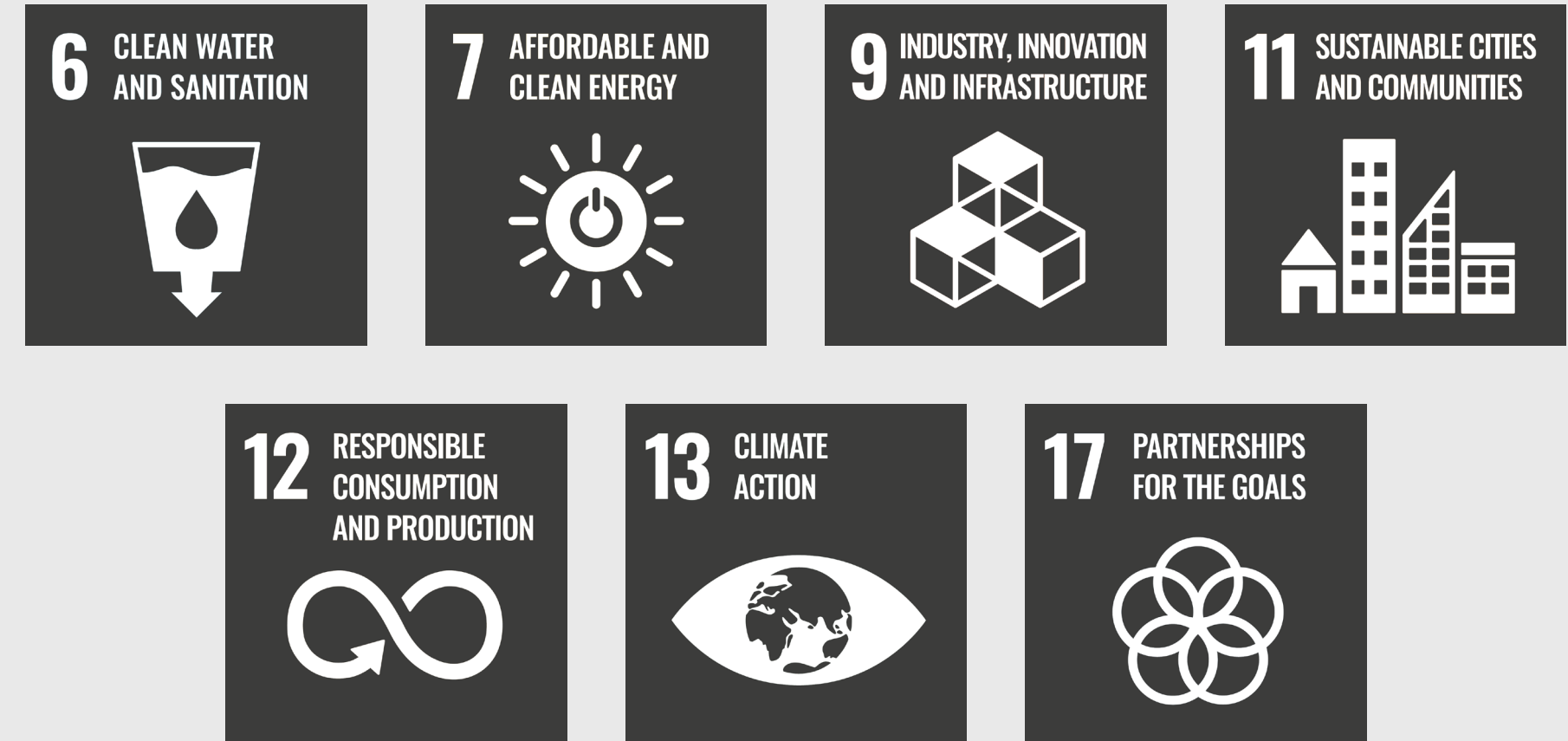




A SUSTAINABLE CHOICE

Sustainability is part of Güntner's DNA, and the new V-shape VARIO was developed with its impact on the environment front of mind. It saves energy, is particularly suitable for natural refrigerants, and can help to reduce carbon emissions.





V-SHAPE VARIO: MAKING AN IMPACT

HEAT PUMPS	ADIABATIC COOLING	NATURAL REFRIGERANTS	DIGITALISATION	TRANSPORT
<p>Heat pumps provide clean thermal energy and reduce carbon emissions. The V-shape VARIO is available as a heat collector, and has been tried and tested in various existing applications.</p>	<p>Güntner's hydroBLU™ adiabatic pre-cooling and humidification pad system is available for the V-shape VARIO. It ensures your cooling system is always run in the most efficient way possible, saving water and energy.</p>	<p>Natural refrigerants, including carbon dioxide, ammonia and hydrocarbons, have no or almost no global warming potential. The V-shape VARIO's heating coils are optimised for natural refrigerants.</p>	<p>Güntner's GMMnext smart control system, available with the V-shape VARIO, can increase the efficiency of your entire refrigeration system, cutting energy consumption by up to 30% and maximising the service life of the units.</p>	<p>Because the V-shape VARIO's dimensions are optimised for transport by curtainsider lorry, the maximum capacity can be delivered with the minimum carbon footprint.</p>

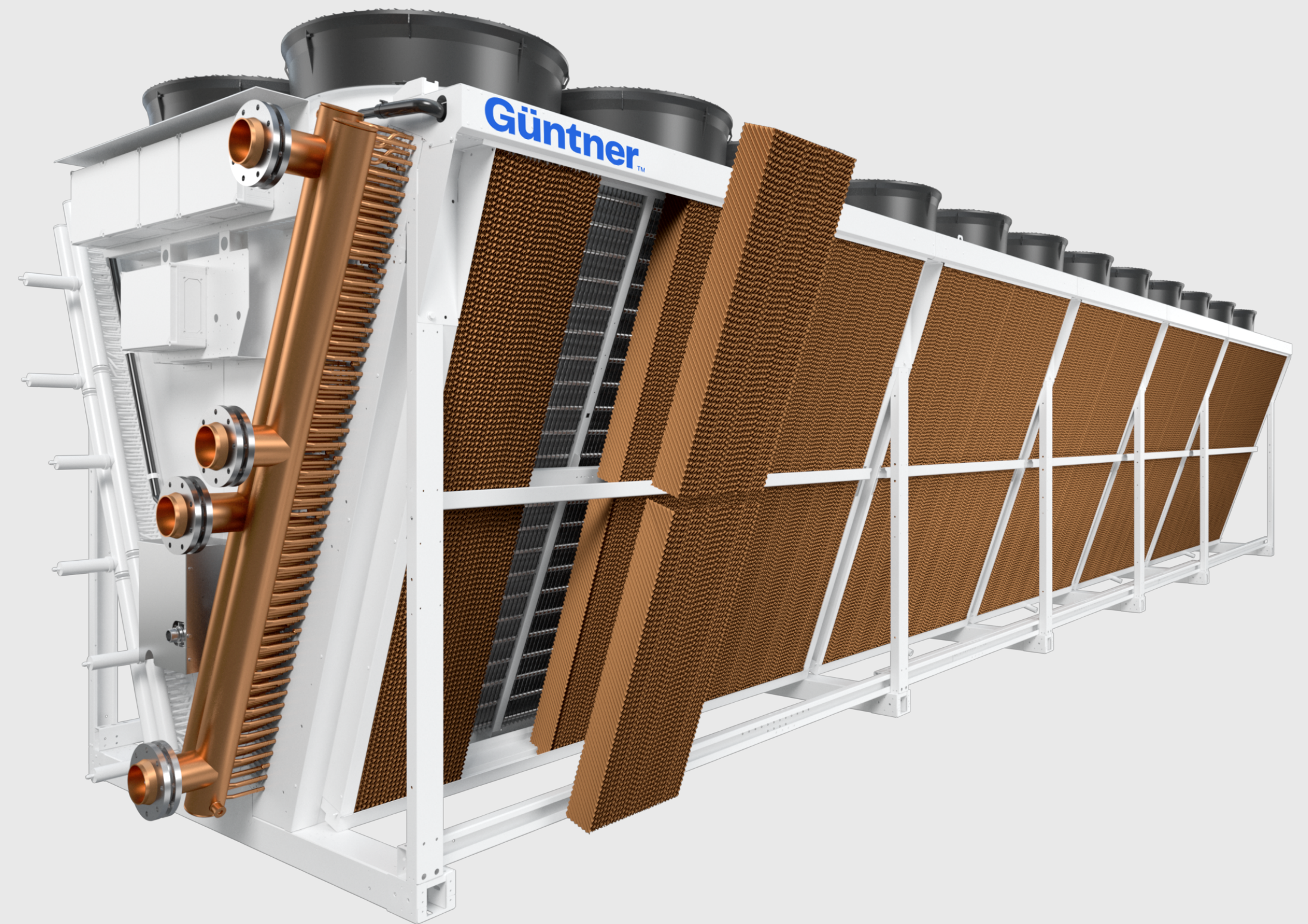


THE NEW HYDROBLU™

The V-shape VARIO can be equipped with Güntner's redeveloped adiabatic hydroBLU™ pre-cooling system, allowing it to be operated as a dry cooler, condenser and gas cooler in warmer climates.

The system's new standard of 150mm pad thickness increases efficiency. The new pad has also been technically adapted and costs have been optimised.

The new hydroBLU™ system has been shown to increase the capacity of the units by up to 260%.





THE NATURAL REFRIGERANTS BONUS

Güntner has been a long-time supporter of the use of natural refrigerants and fully understands their benefits for both people and the planet.

The V-shape VARIO is optimised for the use of all common natural refrigerants, including carbon dioxide, ammonia and hydrocarbons, which have no or almost no global warming potential, no ozone depletion potential, and do not harm the environment in other ways.

Natural refrigerants tend to use less energy than synthetic refrigerants, and maintenance costs are lower. Furthermore, as governments increasingly move to phase out synthetic refrigerants, the use of natural refrigerants helps to future-proof systems.





TECHNICAL DETAILS

FLUID	NOMINAL POWER	SOUND PRESSURE LEVEL *
CO ₂	130 - 2,000 kW	22 - 78 dB(A)
Water / Glycol	30 - 2,600 kW	23 - 78 dB(A)
NH ₃	130 - 2,600 kW	24 - 78 dB(A)
HFCW	50 - 2,600 kW	25 - 78 dB(A)

*according to EN13487 at 10m distance

MATERIALS			
	Casing	Fin	Tube
AlMg		(✓)	
Aluminium		✓	
Aluminium - epoxy resin coating		✓	
Copper			✓
KTL coating		(✓)	(✓)
Steel, galvanised	✓		
Stainless steel		(✓)	(✓)

✓ Standard (✓) Optional



TECHNICAL DETAILS

FANS			
	GVW/GFW	GVD/GFD/GGD	GGDV/GFDV/GCDV
Ø 800 mm	2 - 8 fans	4 - 18 fans	20 - 24 fans
Ø 900 mm	2 - 8 fans	4 - 18 fans	20 - 24 fans

ADD-ONS		
ACCESSORIES	CONTROLS	SUB-COOLLER
hydroBLU™	GMM Motor Management	Multiple circuit coil
hydroSPRAY™	GHM Water Management	Separate heat exchanger
Epoxy-coated fins	GSC Solution Controller	
Special varnishing		
Flange connections		
Vibration damper		
Silencer		
Empty casing (on the short side)		



THANK
YOU