

INDUSTRIAL AIR-AIR HEAT PUMP



A+++

R32
ECO
REFRIGERANT

No
heating pipe



Natural savings

Innovation

KITA is built with steam injection technology "smart injection" with an inverter-controlled brushless DC-scroll compressor and two electronic expansion valves that ensure the operation of the heat pump down to $-33\text{ }^{\circ}\text{C}$ outside temperature.

Silent technology

With attention to comfort and a low noise level, KITA is equipped with two German A-class quality fans, oversized with low rotation speed, which ensures an impressively low sound level.

Need-driven

Thanks to full inverter control, where KITA automatically adapts to the real heating demand, more stable and quiet heating is achieved.

Efficiency

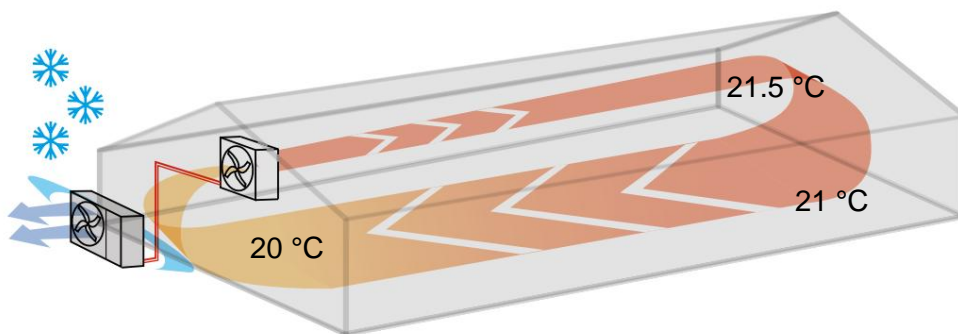
The heat pump is built from oversized components that ensure a long life and high efficiency, i.a. via advanced defrosting technology, which ensures that defrosting only starts when it is really necessary.

Credibility

Capacity regulation, safety automation, good components and software ensure a reliable and reliable heat pump.

Environmentally friendly

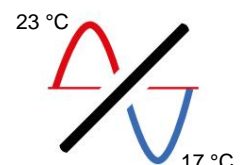
KITA is designed in all aspects to achieve maximum energy efficiency to reduce energy consumption. KITA is the environmentally correct heat source for the future with minimal environmental impact. It uses refrigerant R32, which has a low environmental impact.



Highest comfort

Despite a low installation price, KITA Air is our customers' preferred heating and comfort cooling system in large halls. The comfort exceeds on all fronts traditional oil and gas calorifiers as well as water-borne systems, i.a. due to good heat distribution and combined heat/cooling function.

- Stable and uniform temperature
- Exceptional heat distribution
- Avoid drafts in tall halls
- Low airspeed at person height
- Uniform room temperature



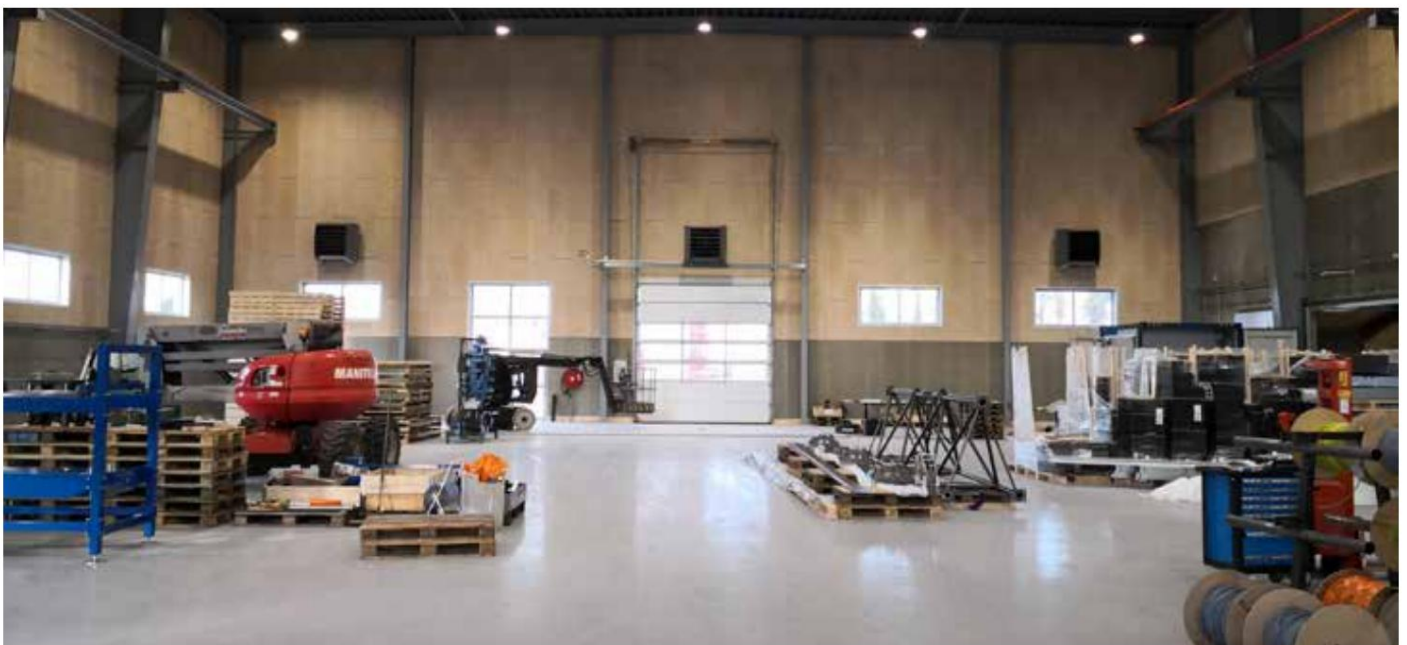
Replace oil and gas with efficient heat pumps

Our society must be electrified in order to secure the world's climate goals. Therefore, electricity is the charges are continuously regulated down compared to the unequally high electricity charges of earlier times. The low electricity prices combined with the impressive efficiency of the KITA air-to-air heat pump provide the absolute lowest heating price.

The change from oil or gas to heat pumps often results in large savings on the energy bill.

Six reasons to choose an air-to-air heat pump

- Simple installation
- Good heat distribution
- Cheap heat
- Better for the environment
- Avoid CO2 tax from 2025
- No feed of heating pipes to units



Outdoor unit mounted on wall bracket



Outer part with legs

Data sheet KITA LUFT-LUFT

KITA AIR 35 kW AIR-AIR

			Unit	Nom.	Max
Heat	Outside air 7°C Indoor air 20°C	Heat capacity	kW	24.55	36.47 KW
		Absorbed electrical power	kW	4.56	8.81 KW
		COP	-	5.39	4.14
	Outside air -7°C Indoor air 20°C	Heat capacity	kW	16.82	26.75 KW
		Absorbed electrical power	kW	4.40	7.99 KW
		COP	-	3.82	3.35
	Energy label				A+++
SCOP heat (medium climate)				4.69	
Fridge	Outside air 30°C Indoor air 22°C	Cooling capacity	kW	21.20	29.49
		Absorbed electrical power	kW	4.57	7.76
		EER (Cooling COP)		4.60	3.80
	Energy label / annual efficiency, cooling				A+ / 5.15
Supply data	Electricity supply		V-Hz	3x400V 50Hz 25A automatic fuse type C Residual current relay 300mA Type A	
	Electricity consumption maximum / nominal		kW	13.3	
	Maximum current		A	23	
Work area	Heating function		Min ~ Max °C	-33°C ~ 35°C	
	Cooling function		Min ~ Max °C	-10°C ~ 50°C	
	Ambient temperature inside		Min ~ Max °C	+12-30°C	
Compressor	Type / quantity		Scroll Inverter EVI / 1 pc		
Outdoor Fan	Model		EBMPAPST		
	Engine type		EC		
	Nominal diameter		etc	910	
	Maximum electricity consumption		kW	0.625	
	Speed (max)		rpm	610	
	Air volume		m3/h	15,000	
Indoor fan	Product		EBM PABST		
	Type		Inverter EC		
	Number		1		
	Nominal diameter		etc	800	
	Maximum electrical power		kW	0.44	
	Maximum current		A	1.9 (230V)	
	Maximum rotation speed		rpm	600	
	Maximum air volume		m3/h	6,000	
Outdoor air heat exchanger	Number of pipe rows		ranges	3	
	Fin distance sand		etc	2.5	
	Surface treatment Sound		Hydrophobic (water resistant)		
Sound level	pressure outside in 10 m nom. operation		dB(A)	38	
	Sound pressure inside 5 m nom. operation		dB(A)	30	
Indoor heat exchanger	Number of pipe rows		ranges	3	
	Fin distance		etc	1.6	
Expansion valve	Main valve		Electronic (EEV)		
	Injection valve (EVI)		Electronic (EEV)		
Pipe connection	Gas / liquid		ø etc	22 (7/8") / 12 (1/2")	
Parts in sets	Inside part / Outside part		paragraph	1 / 1	
Refrigerant	Type		R32		
	Filling		kg	7.0	
Weight	Inside part + Outside part		kg	140 + 260	
Dimensions	Exterior Height X Width x Depth		etc	1292 (1516) x 1790 x 641 (incl. factory-fitted feet)	
	Indepart Height X Width x Depth		etc	1090 x 1250 x 765	

Advantages of the KITA Air heat pump

Simple installation

With the air-air system, installation of a water-borne heating system in new buildings or when converting from gas or oil calorifiers (boilers) is avoided. The connection between the outside and inside of the air-air heat pump is simple and cheap.

High-performance interior distributes the heat

The inside part has a high-performance fan with a long, adjustable throw length, which ensures a minimal temperature difference even in large halls. The temperature difference is normally below 1 °C.

High-tech heat pump ensures low heating costs The outdoor part consists of one of the most innovative heat pumps on the market and is equipped with both EVI technology and an inverter. The EVI technology ensures that the system has a higher heating effect even at extreme outside temperatures down to -33 °C and the inverter technology regulates the heating effect from 25-100% (9-35kW). This demand management ensures that the heat pump always adapts precisely to the heating needs of the room and provides even heat. At the same time, the heating method provides a very quiet and undisturbed heat release compared to gas and oil calorifiers.

The heat pump is, just like all other KITA models, designed for maximal energy efficiency via the over-dimensioned evaporator surface, the EVI technology and at the same time a minimal noise level thanks to the over-dimensioned inverter-controlled A-class fan (Ø910 mm) from German Ebm Pabst.

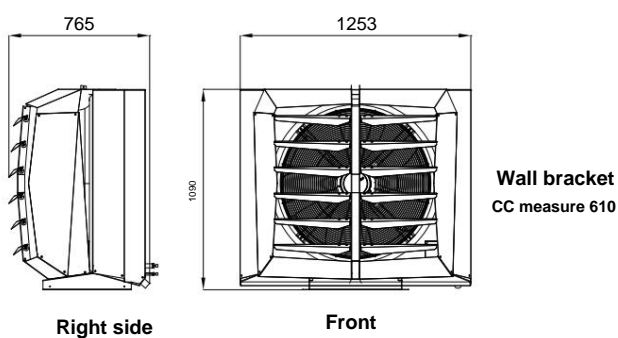
The heating method of the future

KITA air-air is the ideal and modern replacement for heating systems for large rooms and halls, which are typically heated with oil or gas, often with noisy and inefficient fans. With a modest investment, big savings are achieved for heating, and at the same time the system allows for a cooling function.

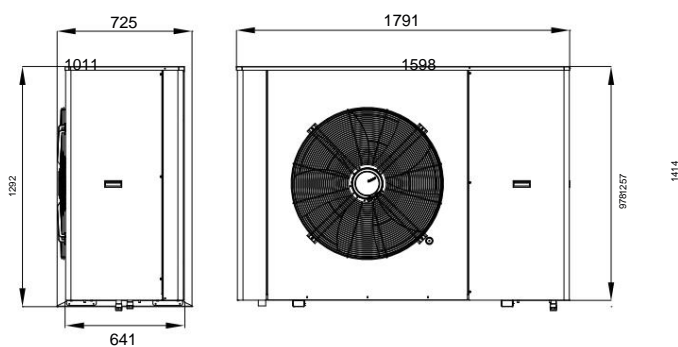
Unbeatable total economy

In addition to a simple and cheap installation, KITA Luft-luft is the absolute cheapest heat source for large rooms and halls. With KITA Luft-luft, the heating price is lower than the cheapest district heating plants.

Indoor part 35 kW



Outdoor unit KITA Air 35 kW



solar

Producer:

Thermonova

Nordvestvej 4 | DK-9600 Aars | Denmark
info@thermonova.dk - thermonova.dk

Sales:

Solar Industrial Solutions

Solar A/S
Industrivej Vest 43 | DK-6600 Vejen | Denmark
sis@solar.eu - solar.dk