

INDUSTRIAL AIR/AIR HEAT PUMP



Production halls Workshops Warehouses Logistics centers Hardware stores Sports centers

Natural savings

Innovation

KITA is equipped with the steam injection technology "smart injection" with an invertercontrolled brushless DC scroll compressor and two electronic expansion valves, which ensure the heat pump's operation down to -33 °C outdoor temperature.

Quiet technology

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

Demand-driven

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

Efficiency

The heat pump is built of oversized components, which ensure long service life and high efficiency among other things via an advanced defrosting technology, which ensures that defrosting only starts when necessary.

Reliability

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

Environmentally friendly

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



Highest comfort

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

- Stable and consistent temperature
- Exceptional heat distribution
- Avoid draft problems in high halls
- Low air flow at person level
- Consistent room temperature



Replace oil and gas with efficient heat pumps

Our society needs to be electrified to ensure the world's climate goals. Therefore, the electricity taxes are gradually reduced compared to the previous high electricity tax. The low electricity prices combined with the KITA air/air heat pump's impressive efficiency achieve the lowest possible heating price. Switching from oil or gas to heat pumps often results in large savings on the energy bill.

Five reasons to choose an air/air heat pump

- Simple installation
- Good heat distribution
- Low cost heat
- Better for the environment
- No need for traditional system piping



Outdoor unit mounted on a wall bracket.

Outdoor unit with legs.

Data sheet KITA AIR/AIR				KITA AIR 35 kW AIR/AIR		KITA AIR PLUS 45 kW AIR/AIR	
			Unit	Nom.	Max	Nom.	Max
Heating		Heat capacity	kW	24.55	36.47 KW	32.33	46.70 KW
	Outdoor air 7°C	Absorbed electrical power	kW	4.56	8.81 KW	6.09	11.59 KW
	Indoor air 20°C	СОР	_	5.39	4.14	5.31	4.03
	Outdoor air -7°C Indoor air 20°C	Heat capacity	kW	16.82	26.75 KW	23.18	39.80 KW
		Absorbed electrical power	kW	4.40	7.99 KW	5.96	12.25 KW
		COP	-	3.82	3.35	3.89	3.25
	Energy labelling			A+++		A+++	
	SCOP heat (average climate)			4,69		4.61	
Cooling	Cooling capacity		kW	21.20 29.49		30.24 41.40	
	Outdoor air 30°C Indoor air 22°C	Absorbed electrical power	kW	4.57	7.76	5.93	9.98
		СОР		4.60	3.80	5.10	4.15
	Energy label/sea	asonal performance facto	r. cooling	A+ /	5.15	A+ /	5.15
Supply data	Power supply		VHz	3x400V 50Hz 25A automatic circuit breaker type C Earth-leakage circuit breaker 300mA Type A		3x400V 50Hz 32A automatic circuit breaker type C Earth-leakage circuit breaker 300mA Type A	
	Power consumption maximal/nominal		kW	13.3		16.6	
	Maximum power		А	23		30	
Working range	Heat function		Min ~ Max °C	-33°C ~ 35°C		-33°C ~ 35°C	
	Cooling function		Min ~ Max °C	-10°C ~ 50°C		-10°C ~ 50°C	
	Ambient temperature indoor		Min ~ Max °C	+12-30°C		+12-30°C	
Compressor	Type/quantity			Scroll Inverter EVI/1 piece		Scroll Inverter EVI/1 piece	
Outdoor fan	Model			EBMPAPST		EBMPAPST	
	Motor type			EC		EC	
	Nominal diameter		mm	910		910	
	Maximum power consumption		kW	0.625		0.625	
	Speed (max)		rpm	610		610	
	Air volume		m³/h	15,000		15,000	
Indoor fan	Brand			EBM PABST		EBM PABST	
	Туре			Inverter EC		Inverter EC	
	Quantity			1		1	
	Nominal diameter		mm	800		800	
	Maximum electrical power		kW	0.44		0.44	
	Maximum power		A	1.9 (230V)		1.9 (230V)	
	Maximum rotational speed		rpm	600		600	
	Maximum air volume		m³/h	6,000		6,000	
Outdoor	Number of pipe rows		rows	3		3	
air heat	Fin spacing		mm	2.5		2.5	
exchanger	Surface treatment			Hydrophobic (water repellent)		Hydrophobic (water repellent)	
Sound level	Sound pressure level outdoor unit in 10 m nom. operation		dB(A)	38		38	
	Sound pressure level indoor unit in 5 m nom. operation		dB(A)	30		30	
Indoor heat	Number of pipe rows		rows	3		3	
exchanger	Fin spacing		mm	1.6		1.6	
Expansion	Main valve			Electronic (EEV)		Electronic (EEV)	
valve	Injection valve (EVI)			Electronic (EEV)		Electronic (EEV)	
Pipe connection	Gas/liquid		ø mm	22 (7/8") / 12 (1/2")		28 (1-/8") / 16 (5/8")	
Parts in set	Indoor unit/Outdoor unit		pcs.	1/1		1/1	
Refrigerant	Туре			R32		R32	
	Filling		kg	7.0		7.4	
Weight	Indoor unit + Outdoor unit		kg	140 + 260		140 + 320	
Dimensions	Outdoor unit He	Outdoor unit Height x Width x Depth		1292 (1516) x 1790 x 641 (incl. factory fitted feet)		1414 x 2021 x 956	
	Indoor unit Hei	Indoor unit Height x Width x Depth		1090 x 1250 x 765		1090 x 1250 x 765	

Benefits of KITA Air heat pump

Simple installation

With the air/air system, the installation of a water-based heating system in new construction or when converting from gas or oil heaters (furnace) is avoided. The connection between the air/air heat pump's outdoor and indoor unit is simple and inexpensive.

High-performance indoor unit distributes heat

The indoor unit has a high-performance fan with a long adjustable throwing capability, which ensures minimal temperature difference even in large halls. The temperature difference is normally less than 1 °C.

High-tech heat pump ensures low heating price

The outdoor unit consists of one of the most innovative heat pumps on the market and is equipped with both EVI technology and inverter. The EVI technology ensu-



Outdoor unit KITA Air (35 kW)



res that the system has a higher heating effect even at extreme outdoor temperatures down to -33 °C and the inverter technology regulates the scroll compressor's heating effect from 25-100% (9-35 kW). This demand control ensures that the heat pump always adapts precisely to the room's heating needs and provides an even heat distribution. At the same time, the heating method provides a very quiet and undisturbed heat output compared to gas and oil heaters. The heat pump is, just like all other KITA models, designed for maximum energy efficiency via the oversized evaporator surface, EVI technology and at the same time a minimal noise level thanks to the oversized inverter-controlled A-class fan (910 mm in diameter) 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 large savings are achieved for heating, and at the same time, the system provides the possibility of cooling function.

Unbeatable total economy

In addition to a simple and inexpensive installation, KITA air/air is the absolutely most economical heat source for large rooms and halls. With KITA air/air, the heating price is lower than the cheapest district heating plants.



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