



wall-mounted
air conditioners

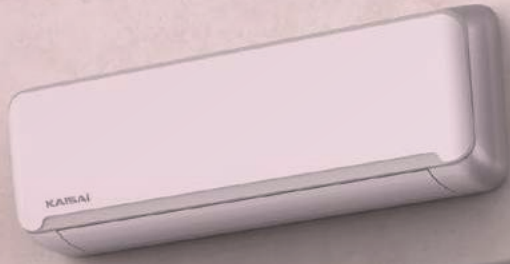
KAISAI



Enzavu

De energietransitie versneller

2020 / 2021



**WE
CARE
ABOUT
AIR**

Environmental protection

GWP – what is it?

Greenhouse potential (GWP – Global Warming Potential) is a figure expressing the global warming potential of a refrigerant if released into the atmosphere. This is a relative value that compares the effect of 1 kg of refrigerant with the effect of 1 kg CO₂ per 100 years.

ODP – what is it?

Ozone Depletion Potential is an indicator of the harmfulness of chemical substances for the ozone layer. It is a value comparing the influence of a given refrigerant with the analogous mass of R11 refrigerant. The ODP value of R11 refrigerant is defined as 1, the modern refrigerant – R32 – has the potential defined as 0.



R32

Environmentally friendly refrigerant R32, available in the entire Kaisai product range

Kaisai currently applies the latest environmentally friendly refrigerant – R32 – in its products. It is more efficient than refrigerants applied before, so that the air-conditioning system requires less refrigerant volume and has significantly better environmental impact factors. It is a modern solution that takes into account both ecological needs and the economy of application.

Main characteristics of R32 refrigerant

ECOLOGICAL

R32 has the lowest GWP coefficient available on the market, equal to 675, and does not cause damage to the ozone layer, thanks to the ODP coefficient equal to 0. Compared to older solutions, it has as much as 75% less impact on global warming. What is more, it can also be recycled.

ECONOMICAL

Compared to R410A, R32 has a higher energy efficiency, so the air conditioning system requires less energy and the efficiency of the equipment increases by up to 10%.

SAFE

The R32 has low toxicity and low flammability – it does not pose a threat to life and health even in the event of leaks in the installation.

Breathe clean air

For the sake of **air quality**

Modern filters used in Kaisai products guarantee clean and fresh air in an air-conditioned room. The filters capture very small dust particles, bacteria, fungi and germs, leaving a healthy and clean air.



Self-cleaning of heat exchanger

In order to ensure the highest hygienic standards and comfort of use, Kaisai brand appliances use the latest self-cleaning technology of the internal heat exchanger.

After operation, the air conditioner switches to the cleaning mode. During the process, it removes moisture accumulated in the unit, which prevents the growth of microorganisms and fungi.

Kaisai air conditioners are designed for the sake of health and comfort of users.

Modern technologies

Kaisai units are characterized by high quality of workmanship and application of modern technologies – all for the convenience of the user. Efficient and comfortable air conditioning is now available for everyone.

inverter

Inverter technology

Inverter technology in Kaisai air-conditioning units reduces power consumption, which in turn lowers down the cost of cooling rooms. Its application means quiet operation of the device and faster achievement of the desired air temperature.

Due to application of robust and pressure-resistant materials, the compressor in Kaisai air conditioners is extremely reliable element. In addition, it has a high-performance motor with a wide voltage range, so it can operate under extreme conditions in 24-hour mode and reach temperatures up to 60°C (230V/50Hz).



 HIGH-PERFORMANCE MOTOR	 WIDE VOLTAGE RANGE	 DURABLE COMPRESSOR MATERIAL	 HIGH-PRESSURE RESISTANCE
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<>
total
65m

∧
vertical
30m

Total installation length

Kaisai's Split range units enable installation of indoor and outdoor units at a large distance from each other – up to 65 m in total and up to 30 m vertically. This makes it much easier to plan even in older buildings. You don't have to adjust the design of your house to the air-conditioning system – we adapt it to your needs.

Operating temperature:

Thanks to modern technology and the new R32 refrigerant, Kaisai air conditioners can operate in a wide range of outdoor temperatures: -15°C to 50°C in cooling mode and -25°C to 30°C in heating mode.

They can do their job all year round, providing users with cooling comfort in summer and additional heating in winter.

cooling [°C]

-15 ÷ 50

heating [°C]

-25 ÷ 30



Dimensions and **design**

We make every effort to ensure that Kaisai appliances follow the latest trends in design: we want the air conditioner to be neatly shaped and in line with the trend of modern interior design.

In addition, when designing indoor cassette and duct units, we take into account the space occupied by the equipment. Thanks to the optimal size of the devices, the suspended ceiling does not require much technical space and thus leaves more room for use.

wall air conditioners

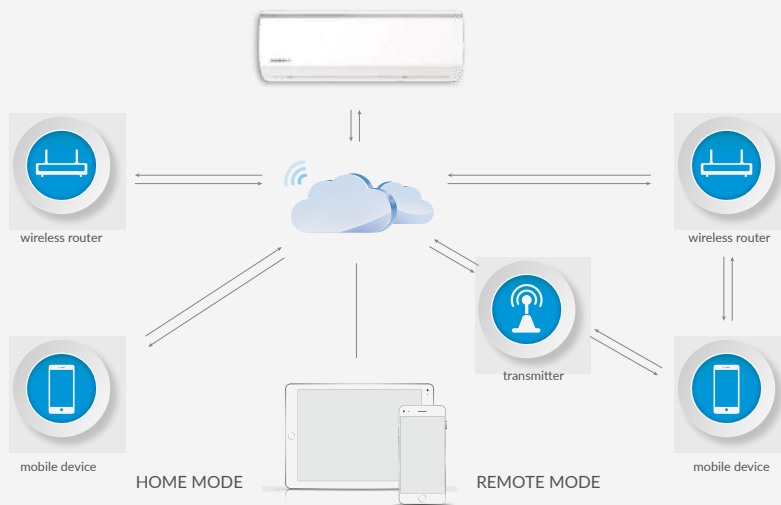


Kaisai products comprise number of features improving the usage comfort, for example, new control options, so that managing the air conditioning has never been so convenient and easy.

Smart AC

Smart AC is a Wi-Fi module that comes as standard with all Kaisai wall-mounted air conditioners. Thanks to its application, the user can control the device through an application installed on a tablet or smartphone, also while away from home or office.

Using the Wi-Fi function, the user can turn the device on or off, change the temperature and some operating functions from anywhere in the world, where there is Internet access. Control via Wi-Fi allows you to save electricity and improve the comfort of operating air conditioning system by controlling the temperature in the apartment or office from any location.



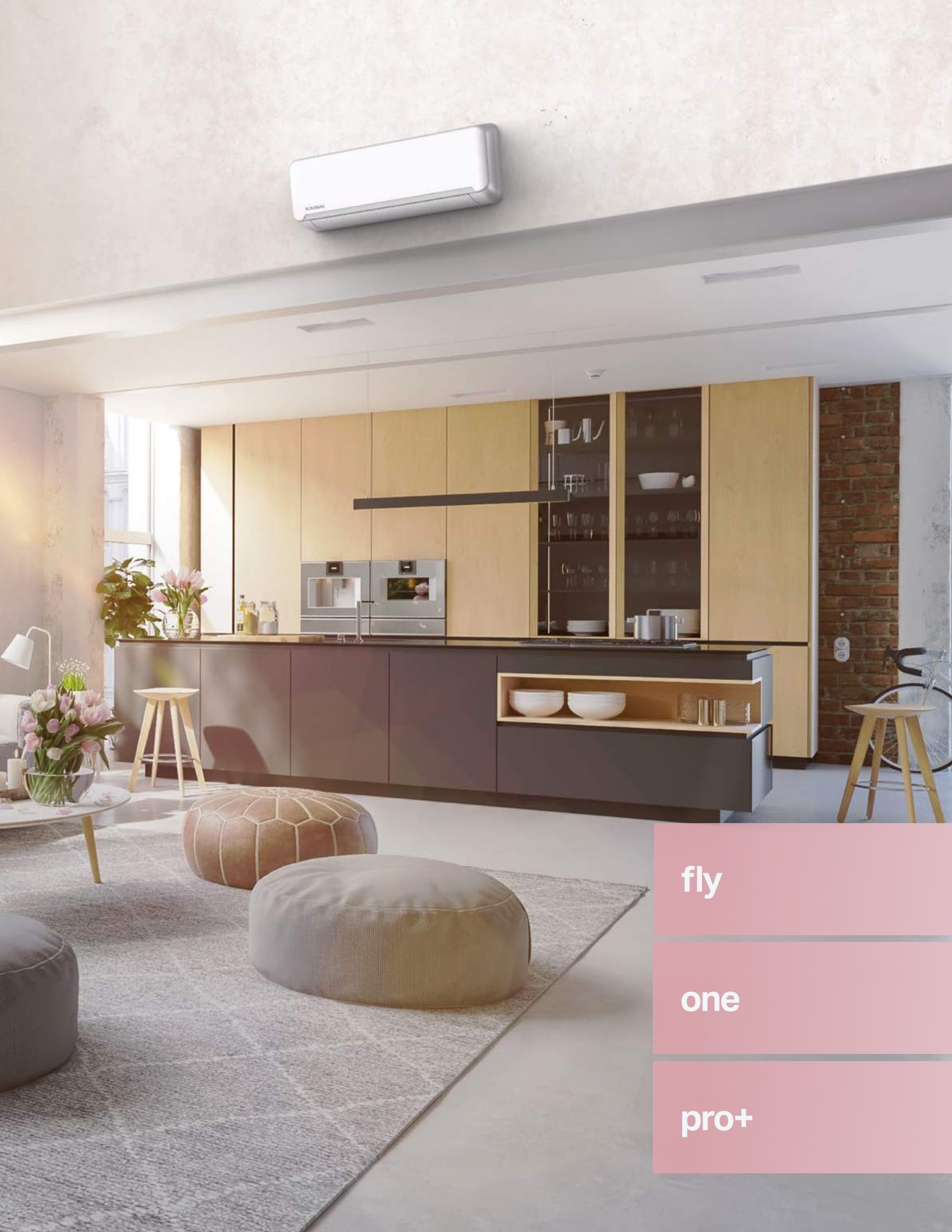
wall-mounted air conditioners

The compact dimensions of the wall-mounted units provide an elegant appearance and comfort of use, combined with high efficiency and simple installation.

The models come in many sizes, which makes it possible to adapt them to different types of interior, for both home and office use, as well as for commercial applications. The wall-mounted appliances do not require much space, and provide perfect room temperature in a very short time.

All wall-mounted air conditioners by Kaisai use the environmentally friendly R32 refrigerant, and standard accessories include the Wi-Fi function to control the unit using mobile devices. Depending on the model, there is a number of practical functions available for intuitive control and the optimum adaptation of the device to the needs of the user.





fly

one

pro+



A+

R32



fly

wall-mounted air conditioners

KWX 09 | 12 | 18 | 24 HRBI



The Kaisai Fly energy-saving wall-mounted air conditioner with R32 refrigerant combines elegance with functionality. Its universal, timeless design makes it suitable for any interior.

The device enables effective operation in the heating mode at outdoor temperature even down to -25°C. Wi-Fi function as standard increases the convenience of air conditioning control, and a modern wireless remote control allows you to use 3 additional functions: evaporator self-cleaning (Self Clean), continuous heating 8°C (Heating 8°C) and temperature sensor in the remote control (Follow Me).



KWX 09 | 12 | 18 | 24 HRBI



excellent solution for bedroom, sitting room or office



UNIT FUNCTIONS



Wide range of temperatures



Filter with high-density



Memory of louvers settings



Indication of refrigerant leakage



Operation at low outdoor temperature



Control Wi-Fi



Emergency use



Catalytic filter



Standby mode



8°C heating function



Temperature sensor in remote control unit



Self-diagnosis



Mono- and multi-unit



Timer



Automatic restart



Sleep function



Evaporator self-cleaning



Filter with silver ions

OPTION



Filter with C vitamin

OPTION



3M filter

OPTION

TECHNICAL SPECIFICATION

MODEL	indoor unit		KWX-09HRBI	KWX-12HRBI	KWX-18HRBI	KWX-24HRBI
	outdoor unit		KWX-09HRBO	KWX-12HRBO	KWX-18HRBO	KWX-24HRBO
Capacity average (min÷max)	cooling	kW	2,6(0,9÷3,4)	3,5(1,1÷4,2)	5,3(1,8÷6,1)	7,0(2,1÷7,9)
	heating	kW	2,9(0,8÷3,4)	3,8(1,1÷4,2)	5,6(1,4÷6,7)	7,3(1,6÷8,8)
Energy class	cooling/heating		A++/A+	A++/A+	A++/A+	A++/A+
SEER	average	W/W	6,3	6,1	7,1	6,1
SCOP	average	W/W	4,0	4,0	4,0	4,0
Power input average (min÷max)	cooling	W	732(100÷1240)	1213(130÷1580)	1539(140÷2360)	2345(160÷2960)
	heating	W	733(120÷1200)	1088(100÷1680)	1480(200÷2410)	2035(260÷3140)
Operation current average (min÷max)	cooling	A	3,2(0,4÷5,4)	5,3(0,5÷6,9)	6,9(0,6÷10,3)	10,2(0,7÷13,3)
	heating	A	3,2(0,5÷5,2)	4,7(0,4÷6,9)	6,4(0,9÷10,5)	10,2(1,1÷13,3)
Air flow	indoor	m³/h	466/360/325	540/430/314	840/680/540	980/817/662
	outdoor	m³/h	1750	1800	2500	3000
Operating temperature cooling/heating	indoor	°C	17÷32/0÷30	17÷32/0÷30	17÷32/0÷30	17÷32/0÷30
	outdoor	°C	-15÷50/-25÷30	-15÷50/-25÷30	-15÷50/-25÷30	-15÷50/-25÷30
Sound pressure level	indoor	dB(A)	38,5/32/25/21	40,5/34,5/25/22	44/37/30/25	44,5/42/34,5/28
	outdoor	dB(A)	55,5	56	56	59,5
Net dimensions w/h/d	indoor	mm	805/285/194	805/285/194	957/302/213	1040/327/220
	outdoor	mm	720/495/270	720/495/270	800/554/333	845/702/363
Transport dimensions w/h/d	indoor	mm	870/365/270	870/365/270	1035/380/295	1120/310/405
	outdoor	mm	835/540/300	835/540/300	920/615/390	965/765/395
Net weight	indoor	kg	7,6	7,6	10,0	12,3
	outdoor	kg	23,2	23,2	34,0	51,5
Transport weight	indoor	kg	9,7	9,7	13,0	15,8
	outdoor	kg	25,0	25,0	36,7	54,5
Pipe diameter: liquid/gas		mm	6,35/9,52	6,35/9,52	6,35/12,7	9,52/15,9
Total length of installation		m	25	25	30	50
Max. level difference		m	10	10	20	25
Power supply	outdoor	V/Hz/Ph	220÷240/50/1	220÷240/50/1	220÷240/50/1	220÷240/50/1
Circuit breaker/fuse	outdoor	A	10	16	16	20
Power supply lines	outdoor	# of wires x mm²	3x1,5	3x1,5	3x2,5	3x2,5
Control lines	ind. - outd.	# of wires x mm²	5x1,5	5x1,5	5x1,5	5x1,5
Factory amount of refrigerant	up to 5 m	kg	0,55	0,55	1,0	1,6
Additional amount of refrigerant	over 5 m	g/m	12	12	12	24
NET PRICE EUR			660	705	1 120	1 450

KWX-xxHRB air conditioners are technically comparable with KWX-xxHRD, they differ in a wireless controller.
When operating in heating mode at an outdoor temperature below -15 °C the use of additional electric heaters is recommended.

ACCESSORIES AND CONTROLLERS



WIRELESS
CONTROL UNIT
RG66A2



WIRELESS
CONTROL UNIT
**RG57
(OPTION)**



WIRED
CONTROLLER
**KJR12B
(OPTION)**



WIRED
CONTROLLER
**KJR90A
(OPTION)**



A+

R32



one

wall-mounted air conditioners

KRX 09 | 12 | 18 | 24 AEXI



The Kaisai One wall mounted air conditioner is an energy-efficient appliance combining modern design with exceptionally simple installation, maintenance, and cleaning.

The new design of the air conditioner, with its properly shaped casing, and the optimised arrangement of the individual components inside the unit, help save time during installation and daily operation.

By using modern technology and the R32 refrigerant, the air conditioner can operate in a wide range of outdoor temperatures: from -15°C to +50°C in the cooling mode, and from -25 to +30°C in the heating mode.

Comfort of use is provided by a modern wireless remote control and a Wi-Fi function as standard, to control the device using your mobile phone or tablet.



KRX 09 | 12 | 18 | 24 AEXI



particularly
easy to install,
maintain
and clean



UNIT FUNCTIONS



Wide range of temperatures



Simple installation



Memory of louvers settings



Indication of refrigerant leakage



Operation at low outdoor temperature



Self-diagnosis



Emergency use



Control Wi-Fi



Standby mode



8°C heating function



Evaporator self-cleaning



Temperature sensor in remote control unit



3D air flow



Timer



Automatic restart



Sleep function



Catalytic filter



Filter with silver ions



Filter with C vitamin



3M filter

OPTION

OPTION

OPTION

TECHNICAL SPECIFICATION

MODEL	indoor unit		KRX-09AEXI	KRX-12AEXI	KRX-18AEXI	KRX-24AEXI
	outdoor unit		KRX-09AEXO	KRX-12AEXO	KRX-18AEXO	KRX-24AEXO
Capacity average (min÷max)	cooling	kW	2,6(1,2÷3,4)	3,5(1,4÷4,6)	5,3(2,0÷6,2)	7,2(2,1÷8,4)
	heating	kW	2,9(0,8÷3,4)	4,1(0,9÷5,1)	5,7(1,3÷7,0)	7,6(2,1÷9,4)
Energy class	cooling/heating		A++/A+	A++/A+	A++/A+	A++/A+
SEER	average	W/W	6,8	6,3	6,7	6,4
SCOP	average	W/W	4,0	4,0	4,0	4,0
Power input average (min÷max)	cooling	W	737(100÷1312)	1250(110÷1740)	1500(150÷2220)	2260(230÷3010)
	heating	W	811(140÷1380)	1170(150÷1830)	1390(220÷2330)	2110(330÷3150)
Operation current average (min÷max)	cooling	A	3,1(0,4÷6,0)	5,4(0,5÷7,6)	6,5(0,7÷9,7)	9,8(1,0÷13,1)
	heating	A	3,5(0,6÷6,3)	5,1(0,7÷8,0)	6,0(1,0÷10,1)	9,2(1,4÷13,7)
Air flow	indoor	m³/h	486/433/329	550/490/360	810/720/550	1050/970/650
	outdoor	m³/h	2000	2000	2100	2700
Operating temperature cooling/heating	indoor	°C	17÷32/0÷30	17÷32/0÷30	17÷32/0÷30	17÷32/0÷30
	outdoor	°C	-15÷50/-25÷30	-15÷50/-25÷30	-15÷50/-25÷30	-15÷50/-25÷30
Sound pressure level	indoor	dB(A)	41/35/29/20	41/37/30/23	45/41/33/24	46/44/35/27
	outdoor	dB(A)	55	55	57	59
Net dimensions w/h/d	indoor	mm	717x302x193	805x302x193	964x325x222	1106x342x232
	outdoor	mm	770x555x300	770x555x300	800x554x333	845x702x363
Transport dimensions w/h/d	indoor	mm	785x375x285	875x375x285	1045x405x305	1195x420x315
	outdoor	mm	900x585x345	900x585x345	920x615x390	965x765x395
Net weight	indoor	kg	7,8	8,2	10,8	14,3
	outdoor	kg	27,0	27,2	37,0	50,0
Transport weight	indoor	kg	10,3	10,9	14,3	18,2
	outdoor	kg	29,4	29,7	39,9	53,1
Pipe diameter: liquid/gas		mm	6,35/9,52	6,35/9,52	6,35/12,7	9,52/15,9
Total length of installation		m	25	25	30	50
Max. level difference		m	10	10	20	25
Power supply	outdoor	V/Hz/Ph	220÷240/50/1	220÷240/50/1	220÷240/50/1	220÷240/50/1
Circuit breaker/fuse	outdoor	A	10	16	16	20
Power supply lines	outdoor	# of wires x mm²	3x1,5	3x1,5	3x2,5	3x2,5
Control lines	ind. - outd.	# of wires x mm²	5x1,5	5x1,5	5x1,5	5x1,5
Factory amount of refrigerant	up to 5 rm	kg	0,7	0,8	1,25	1,6
Additional amount of refrigerant	over 5 rm	g/m	12	12	12	24
NET PRICE EUR			720	785	1 200	1 578

ACCESSORIES AND CONTROLLERS



WIRELESS CONTROL UNIT
RG66A1



WIRELESS CONTROL UNIT
RG57 (OPTION)



WIRED CONTROLLER
KJR-120X2 (OPTION)



CENTRAL CONTROLLER
CCM03 (OPTION)



A+

R32



pro⁺

wall-mounted air conditioners

KSN-12PRBI



The modern Kaisai Pro+ wall mounted air conditioner is a top-class energy-efficient appliance, distinguished by the exceptionally high SEER 8.1 and SCOP 4.6 energy-efficiency ratios.

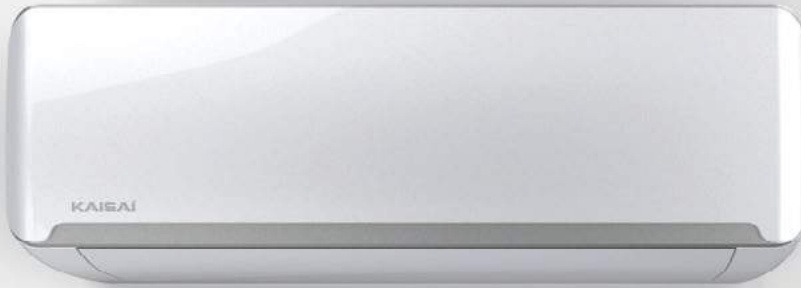
The appliance is an ideal solution in cold climate zones, allowing for effective heating of rooms in a very wide range of outdoor temperatures. Thanks to the standard equipment, consisting of the compressor crankcase heater and the heater installed in the lower part of the outdoor unit casing, the air conditioner has the possibility to operate in the heating mode at outdoor temperature of up to -30°C.

The heat exchanger installed in the air conditioner is equipped with gold fins, which improve the efficiency of heat exchange, and also increase its anti-corrosion properties and prevent the growth of bacteria.

Pro+ combines modern design with a high level of user experience, thanks to the following functions: Wi-Fi as standard, Eco, and 3D air supply.



KSN-12PRBI



the highest
energy
efficiency
class



UNIT FUNCTIONS



3D air flow



Filter with high-density



Memory of louvers settings



Indication of refrigerant leakage



Operation at low outdoor temperature



Control Wi-Fi



Emergency use



Catalytic filter



Standby mode



8°C heating function



Two-sided installation



Temperature sensor in remote control unit



Eco



Timer



Automatic restart



Sleep function



Evaporator self-cleaning



5 fan speeds of the outdoor unit



Turbo mode



Filter with silver ions



Filter with C vitamin



3M filter

TECHNICAL SPECIFICATION

MODEL	indoor unit	KSN-12PRBI	
	outdoor unit	KSN-12PRBO	
Capacity average (min÷max)	cooling	kW	3,5(0,9÷4,7)
	heating	kW	3,5(1,0÷6,5)
Energy class	cooling/heating		A++/A++
SEER	average	W/W	8,1
SCOP	average	W/W	4,6
Power input average (min÷max)	cooling	W	977(53÷1590)
	heating	W	1095(167÷2130)
Operation current average (min÷max)	cooling	A	4,2(0,5÷7,0)
	heating	A	4,8(1,2÷9,4)
Air flow	indoor	m³/h	611/479/360
	outdoor	m³/h	2000
Operating temperature cooling/heating	indoor	°C	18÷32/0÷27
	outdoor	°C	-15÷43/-30÷30
Sound pressure level	indoor	dB(A)	42/35/25/22
	outdoor	dB(A)	55,5
Net dimensions w/h/d	indoor	mm	802x297x189
	outdoor	mm	800x554x333
Transport dimensions w/h/d	indoor	mm	875x375x285
	outdoor	mm	920x615x390
Net weight	indoor	kg	8,5
	outdoor	kg	34,7
Transport weight	indoor	kg	11,1
	outdoor	kg	37,5
Pipe diameter: liquid/gas		mm	6,35/9,52
Total length of installation		m	25
Max. level difference		m	10
Power supply	outdoor	V/Hz/Ph	220÷240/50/1
Circuit breaker/fuse	outdoor	A	10
Power supply lines	outdoor	# of wires x mm²	3x1,5
Control lines	ind. - outd.	# of wires x mm²	5x1,5
Factory amount of refrigerant	up to 5 rm	kg	0,87
Additional amount of refrigerant	over 5 rm	g/m	12
NET PRICE EUR			1 350

ACCESSORIES AND CONTROLLERS



WIRELESS CONTROL UNIT
RG66B7



WIRELESS CONTROL UNIT
RG66A1 (OPTION)



WIRELESS CONTROL UNIT
RG57 (OPTION)

Contact data



Enzavu

De energietransitie versneller

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This publication is an informational and presentation document for Kaisai air conditioners, air curtains and heat pumps. | The technologically advanced production process makes it necessary to continuously monitor and improve it. This is why the information contained in the publication may be subject to change. | The net prices are the catalog prices of the products and do not include discounts or installation costs. | Technical data and prices in the catalog are subject to change. Up-to-date information is always available at www.kaisai.com



**WE
CARE
ABOUT
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