



# RESIDENTIAL AND COMMERCIAL R32



## WELL-BEING FOR YOUR HOME

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The most demanding customers, in tune with technological evolution and the benefits deriving from it as well as respect for the environment, will find a concrete answer in the new **RESIDENTIAL R32** line. This line offers a selection of the best available on the market today for residential environment installations.

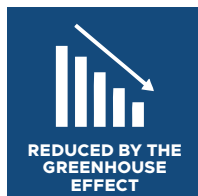
## RESIDENTIAL AND COMMERCIAL R32

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# WELL-BEING FOR PEOPLE AND THE PLANET



## WHAT IS REFRIGERANT R32 GAS?

The specific name of the R32 gas is difluoromethane. Currently, it is present among the low-value GWP fluorinated gases, equal to 675, and is used in air-conditioning units intended for residential use. It cannot be used in air conditioning units with direct expansion for tertiary and industrial use with a high refrigerant content, such as VRF systems, since it does not comply with some current regulations\*. There is no obligation to replace the current R410A gas, which therefore remains regularly on the market, except in monosplit applications with refrigerant <3 kg where, starting from 2025, the use of gas with GWP<750 will be mandatory.

## ADVANTAGES OF R32 GAS

- R32 has a GWP of 675 - 68% less than R410A gas with GWP 2088.
- It requires 20% less charge than R410A gas.
- It is more efficient than the R410A gas, from 3% to 5%.
- It allows the threshold to be overcome which obliges a characteristic leakage control limit today of 2.4 kg for R410A gas.

## WARNINGS FOR USE

When storing units containing R32, it may be necessary, depending on the quantities stored, to revise the Fire Prevention Certificate to guarantee the validity of its insurance guarantee (Presidential Decree 151/2011).

The transport of dangerous goods is regulated by Leg. Decree 35/2010. R32 has been classified as slightly flammable by ISO 817 and as such has no stringent restrictions on road transport, maintaining a strict regulation in maritime and aeronautical transport.

The EN 378:2016 standard also regulates the applications of appliances using R32 gas. The maximum concentration limits of gas in residential applications must always be verified, with particular regard to multisplit systems that can potentially concentrate (in case of leakage) high quantities of refrigerant in small-sized environments. R32 gas is heavier than air and accumulates in the event of a leak. Indoor units therefore follow different normative parameters depending on the type of application.

Installation in public buildings is regulated by specific standards concerning the application of appliances with flammable gases, such as: Min. Decree for Hotels 09/04/1994, Min. Decree for shopping centres 27/07/2010, Min. Decree for buildings for shows 19/08/1996, Min. Decree for hospitals 18/09/2012, Min. Decree for schools 26/08/1992, Min. Decree for offices 22/02/2006, Min. Decree for games for children 16/07/2014, Min. Decree for airports 07/07/2014, Min. Decree for interports 18/07/2101.

The design, installation and maintenance of appliances with R32 gas are regulated by the following standards: Ministerial Decree 37/2008 provisions concerning the installation of plants inside buildings, Leg. Decree 81/2008 text on health and safety at work, F-gas 517/2014 regulation of fluorinated gases, Presidential Decree 151/2011 governing the procedures relating to fire prevention, EN 378:2016 refrigeration systems and heat pumps (requirements for plant safety).

Scrupulous checking of existing regulations is recommended when using equipment containing R32 gas. Failure to comply with these regulations requires the designers and installers of equipment with R32 to have a direct legal responsibility for their application.

\* Italy applies a ban on flammable refrigerant for applications such as in hotels (Min. Decree 09/04/1994), shopping centres (Min. Decree 27/07/2010), buildings for public performance (Min. Decree 19/08/1996), hospitals (Min. Decree 18/09/2012), schools (Min. Decree 26/08/1992), offices (Min. Decree 22/02/2006), play grounds for children (Min. Decree 16/07/2014), airports (Min. Decree 07/07/2014) and interports (Min. Decree 18/07/2014).

# RESIDENTIAL AND COMMERCIAL R32 - LINE UP







## MONOSPLIT

kW		2.60	3.50	5.30	7.10	8.80	10.80	12.30	14.00	16.00
<b>TOP CLASS DC INVERTER</b>										
Wall		HKEU ZAL*	HKEU ZAL*							
<b>ACTIVE LINE DC INVERTER</b>										
Wall		HKEU ZAL*	HKEU ZAL*	HKEU ZAL*	HKEU ZAL*					
<b>COMMERCIAL</b>										
Console			HFIU ZAL							
Compact Cassette			HTFU ZAL	HTFU ZAL						
Slim Cassette 84x84					HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA
Ducted with medium head Pa			HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA
Floor/ceiling				HSFU ZAL	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1



\* Can also be installed in multisplit version.

## MULTISPLIT

kW		4.10	5.30	6.15	7.90	8.20
No. connectable indoor units		2	2	3	3	4
						
		HCKU 470 Z2	HCKU 530 Z2	HCKU 600 Z3	HCKU 760 Z3	HCKU 810 Z4
	HKEU 264 ZAL	•	•	•	•	•
	HKEU 354 ZAL	•	•	•	•	•
	HKEU 203 ZL	•	•	•	•	•
	HKEU 263 ZAL	•	•	•	•	•
	HKEU 353 ZAL	•	•	•	•	•
	HKEU 533 ZAL	•	•	•	•	•

Performance and consumption are based on the following test conditions: O.T. heating 7° C DB, 6° C WB and- I.T. 20° C DB. Cooling: O.T. 35° C DB, 24° C WB and- I.T. 27° C DB, 19° C WB and- I.T.

# TOP CLASS DC INVERTER

## Wall

NEW



### Refrigerant leak detection

Active only in cooling mode, it allows to identify compressor malfunctions following the refrigerant leak.



### Cold currents prevention

Through this function in heating mode, it is possible to avoid the introduction of cold air into the room following the defrost cycles.



### 24H timer

This function allows users to select delayed air conditioner on and/or off within 24 hours, either via remote (standard) or via Wi-Fi (optional).



### Anti-freeze function 8° C

In the event of prolonged absence, a minimum temperature level can be guaranteed inside the rooms. By activating the anti-freeze function, when a temperature lower than 8° C is detected in the room, the system starts until this temperature is reached.



### Sleep mode

It allows lowering energy consumption at night. In cooling mode, the system increases the ambient temperature within 2 hours, by 2° C (in heating mode the system lowers the temperature by 2°C). At the end of 2 hours the fan of the indoor unit works at low speed. The system keeps the room temperature constant for the next 5 hours.



### Silence mode

This function allows the operating speed of the compressor of the outdoor unit and the fan of the indoor unit to be reduced to a minimum, so as to reduce noise and energy consumption to a minimum.

# RESIDENTIAL AND COMMERCIAL R32

## TOP CLASS DC INVERTER

Wall HKEU 264-354 ZAL



- "3D" air diffusion
- Photocatalytic filter
- Position memorization function louvres

### Main features

Models available in 2 power sizes 2.64 ~ 3.52 kW.

Seasonal energy efficiency class in cooling/heating mode: A+++/A++ (2.64 kW); A++/A++ (3.52 kW).

SEER/SCOP values 8.5/4.6 (2.64 kW).

Operating range in cooling and heating: -15~43° C; -30~30° C.

Extremely quiet: 21.5 dB(A) (2.64 kW); 22 dB(A) (3.52 kW).

Compact dimensions: only 189 mm deep.

Installation flexibility: up to 25 m splitting length and 10 m height difference between O.U. and I.U.

Possibility of access to tax deductions and to the thermal account.



Indoor unit model		HKEU 264 ZAL		HKEU 354 ZAL	
Outdoor unit model		HCNI 264 ZA		HCNI 354 ZA	
Type		DC-Inverter heat pump			
Control		Remote control			
Rated capacity (T=+35°C)	Cooling	kW	2.64 (0.91~4.40)	3.52 (0.93~4.75)	
Rated absorbed power (T=+35°C)		kW	0.60 (0.05~1.55)	0.98 (0.05~1.59)	
Rated energy efficiency coefficient		EER <sup>3</sup>	4.40	3.59	
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A+++	A++	
Seasonal energy efficiency index		SEER <sup>2</sup>	8.5	8.1	
Annual energy consumption		kWh/a	111	155	
Theoretical load (Pdesignc)		kW	2.7	3.5	
Rated capacity (T=+7°C)	Heating	kW	2.86 (0.79~6.30)	3.81 (0.98~6.50)	
Rated absorbed power (T=+7°C)		kW	0.65 (0.14~2.10)	1.026 (0.17~2.13)	
Rated energy performance coefficient		COP <sup>3</sup>	4.42	3.71	
Energy efficiency class (average season)		626/2011 <sup>1</sup>	A++	A++	
Seasonal energy efficiency class index (average season)		SCOP <sup>2</sup>	4.6	4.6	
Annual energy consumption		kWh/a	792	852	
Theoretical load (Pdesignh)		kW	2.2	2.8	
Operating limits (external temperature)	Cooling	°C	-15~43	-15~43	
	Heating	°C	-30~30	-30~30	
<b>Electrical data</b>					
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 2.5 mm <sup>2</sup>		
Absorbed current (rated)	Cooling	A	0.5~7.0	0.5~7.0	
	Heating	A	1.0~9.2	1.2~9.4	
Maximum current		A	10	10	
Maximum absorbed power		kW	2.35	2.35	
Connection wires between I.U. and O.U.		no.	5	5	
<b>Refrigerant circuit</b>					
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)	
Quantity refrigerant pre-load		Kg	0.87	0.87	
Tons of CO2 equivalent		t	0.587	0.587	
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	
Max splitting length		m	25	25	
Max height difference I.U. /O.U.		m	10	10	
Split length without additional charge		m	5	5	
Additional load		g/m	12	12	
<b>Indoor unit specifications</b>					
Dimensions	LxDxH	mm	802x189x297	802x189x297	
	Net weight	kg	8.5	8.5	
Sound pressure level (I.U.)	Hi/Mi/Lo/U/Lo	dB(A)	42/35/25/21.5	42/35/25/22	
Sound power level (I.U.)	Hi	dB(A)	56	56	
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	611/479/360	611/479/360	
Motor power (Output)		W	50	50	
<b>Specifications of outdoor units</b>					
Dimensions	LxDxH	mm	800x333x554	800x333x554	
	Net weight	kg	34.7	34.7	
Sound pressure level (O.U.)		dB(A)	55.5	55.5	
Sound power level (O.U.)		dB(A)	64	65	
Handled air (Max)		m <sup>3</sup> /h	2000	2000	
Motor power (Output)		no. x W	40	40	
<b>Optional parts</b>					
Wired remote control				NO	
Centralised control				NO	
Wi-Fi module				KK-WIFI KIT	

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

# ACTIVE LINE DC INVERTER

Comfort, well-being and air quality

NEW



### Sleep mode

It allows lowering energy consumption at night. In cooling mode, the system increases the ambient temperature within 2 hours, by 2° C (in heating mode the system lowers the temperature by 2°C). At the end of the 2 hours the fan of the indoor unit works at low speed. The system keeps the room temperature constant for the next 5 hours.



### Comfort care

ACTIVE air conditioners are equipped with a device that automatically regulates the temperature and moisture in the room.



### Silence mode

This function allows the operating speed of the compressor of the outdoor unit and the fan of the indoor unit to be reduced to a minimum, so as to reduce noise and energy consumption to a minimum.



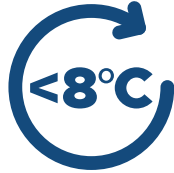
### Refrigerant leak detection

Active only in cooling mode, it allows to identify compressor malfunctions following the refrigerant leak.



### Cold currents prevention

Through this function in heating mode, it is possible to avoid the introduction of cold air into the room following the defrost cycles.



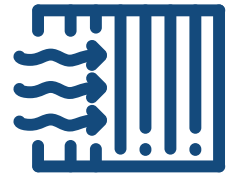
### Anti-freeze function 8° C

In the event of prolonged absence, a minimum temperature level can be guaranteed inside the rooms. By activating the anti-freeze function, when a temperature lower than 8° C is detected in the room, the system starts until this temperature is reached.



### 24H timer

This function allows users to select delayed air conditioner on and/or off within 24 hours, either via remote (standard) or via Wi-Fi (optional).



### High density filter

ACTIVE is equipped with high-density filters that ensure the removal of pollen and dust up to 80% and prolong the effect without impurities, to always have clean room air.

# RESIDENTIAL AND COMMERCIAL R32

## ACTIVE LINE DC INVERTER

Wall HKEU 263-353-533-713 ZAL



- Cold catalyst filter
- Self-cleaning function
- Self-diagnosis function
- High density filter

### Main features

Wall model available with 4 different power levels: 2.64-7.03 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

SEER/SCOP values 7.1/4.0 (5.28 kW).

Operating range in cooling and heating: -15~50° C; -25~30° C.

Extremely quiet: 21 dB (A) (2.64 kW); 22 dB (A) (3.52 kW).

Compact size of I.U. and O.U.

Installation flexibility: up to 50 m splitting length and 25 m height difference between O.U. and I.U. (7.03 kW).



Indoor unit model		HKEU 263 ZAL		HKEU 353 ZAL		HKEU 533 ZAL		HKEU 713 ZAL		
Outdoor unit model		HCNI 263 ZA		HCNI 353 ZA		HCNI 533 ZA		HCNI 713 ZA		
Type		DC-Inverter heat pump								
Control		Remote control								
Cooling	Rated capacity (T=+35°C)	kW	2.64 (0.91~3.40)	3.52 (1.11~4.16)	5.28 (1.82~6.13)	7.03 (2.08~7.95)				
	Rated absorbed power (T=+35°C)	kW	0.71 (0.10~1.24)	1.24 (0.13~1.58)	1.54 (0.14~2.36)	2.35 (0.16~2.96)				
	Rated energy efficiency coefficient	EER <sup>3</sup>	3.72	2.84	3.43	2.99				
	Seasonal energy efficiency class	626/2011 <sup>1</sup>	A++	A++	A++	A++				
	Seasonal energy efficiency index	SEER <sup>2</sup>	6.2	6.1	7.1	6.1				
	Annual energy consumption	kWh/a	147	201	256	412				
	Theoretical load (Pdesignc)	kW	2.6	3.5	5.2	7.0				
Heating	Rated capacity (T=+7°C)	kW	2.93 (0.82~3.37)	3.81 (1.08~4.22)	5.57 (1.38~6.74)	7.33 (1.61~8.79)				
	Rated absorbed power (T=+7°C)	kW	0.74 (0.12~1.20)	0.96 (0.10~1.58)	1.48 (0.20~2.41)	2.04 (0.26~3.14)				
	Rated energy performance coefficient	COP <sup>3</sup>	3.96	3.97	3.76	3.59				
	Energy efficiency class (intermediate climate season)	626/2011 <sup>1</sup>	A+	A+	A+	A+				
	Seasonal energy efficiency index (intermediate climate season)	SCOP <sup>2</sup>	4.0	4.0	4.0	4.0				
	Annual energy consumption	kWh/a	735	805	1435	1697				
	Theoretical load (Pdesignh)	kW	2.1	2.3	4.1	4.8				
Operating limits (external temperature)	Cooling	°C							-15~50	
	Heating	°C							-25~30	
<b>Electrical data</b>										
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz							
Power cable		Type	3 x 2.5 mm <sup>2</sup>			3 x 4 mm <sup>2</sup>				
Absorbed current (rated)	Cooling	A	0.4~5.4	0.5~6.9	0.6~10.3	0.7~13.3				
	Heating	A	0.5~5.2	0.4~6.9	0.9~10.5	1.1~13.3				
Maximum current		A	10	10	17.5	17.5				
Maximum absorbed power		kW	2.15	2.15	2.95	3.85				
Connection wires between I.U. and O.U.		no.	5	5	5	5				
<b>Refrigerant circuit</b>										
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)	R32 (675)	R32 (675)				
Quantity refrigerant pre-load		Kg	0.5	0.5	1.0	1.6				
Tons of CO2 equivalent		t	0.338	0.338	0.675	1.080				
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")	ø9.52(3/8") - ø15.88(5/8")				
Max splitting length		m	25	25	30	50				
Max height difference I.U./O.U.		m	10	10	20	25				
Split length without additional charge		m	5	5	5	5				
Additional load		g/m	12	12	12	24				
<b>Indoor unit specifications</b>										
Dimensions	LxDxH	mm	805x194x285	805x194x285	957x213x302	1040x220x327				
	Net weight	Kg	7.5	7.5	10	12.3				
Sound pressure level (I.U.)	Hi/Mi/Lo/U/Lo	dB(A)	40/30/26/21	40/34/26/22	44/37/30/25	44.5/42/34.5/28				
Sound power level (I.U.)	Hi	dB(A)	53	53	55	59				
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	520/460/360	600/500/360	840/680/540	980/817/662				
Motor power (Output)		W	40	40	36	58				
<b>Specifications of outdoor units</b>										
Dimensions	LxDxH	mm	700x275x550	700x275x550	800x333x554	845x363x702				
	Net weight	Kg	22.7	22.7	34	51.5				
Sound pressure level (O.U.)		dB(A)	55.5	56	56	59.5				
Sound power level (O.U.)		dB(A)	61	65	61	67				
Handled air (Max)		m <sup>3</sup> /h	1700	1700	2500	3000				
Motor power (Output)		no. x W	66	66	63	115				
<b>Optional parts</b>										
Wired remote control			NO							
Centralised control			NO							
Wi-Fi module			KK-WIFI KIT							

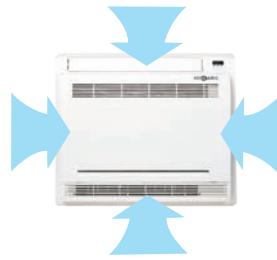
1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.



# RESIDENTIAL AND COMMERCIAL R32

## CONSOLE

HFIU 350 ZAL



4 air distribution inlets for increased system energy efficiency



Infrared remote control



### Main features

- 1 power level: 3.52 kW.
- Seasonal energy efficiency class in cooling/heating mode: A++/A+.
- SEER/SCOP values up to 7.7/4.3.
- Operating range in cooling and heating: -15~50° C; -15~24° C.
- Compact design, depth of only 210 mm.
- Double air distribution mode.
- Anti-formaldehyde filter supplied.
- Installation flexibility: up to 25 m splitting length.
- Possibility of access to tax deductions and to the thermal account.



<b>Indoor unit model</b>			HFIU 350 ZAL
<b>Outdoor unit model</b>			HCKI 350 ZA
<b>Type</b>			FULL DC-Inverter heat pump
Control			Remote control
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.77~3.81)
Rated absorbed power (T=+35°C)		kW	0.92 (0.17~1.84)
Rated energy efficiency coefficient		EER <sup>3</sup>	3.83
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	7.7
Annual energy consumption		kWh/a	159
Theoretical load (Pdesignc)	Heating	kW	3.5
Rated capacity (T=+7°C)		kW	3.81 (0.46~4.34)
Rated absorbed power (T=+7°C)		kW	1.02 (0.15~1.47)
Rated energy performance coefficient		COP <sup>3</sup>	3.74
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.3
Annual energy consumption	kWh/a	1042	
Theoretical load (Pdesignh)	kW	3.2	
Operating limits (external temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
<b>Electrical data</b>			
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	4.1 (1.4~8.1)
	Heating	A	4.5 (1.2~6.5)
Maximum current		A	10
Maximum absorbed power		kW	2.35
Connection wires between I.U. and O.U.		no.	4
<b>Refrigerant circuit</b>			
Refrigerant (GWP) <sup>4</sup>			R32 (675)
Quantity refrigerant pre-load		Kg	0.87
Tons of CO2 equivalent		t	0.587
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")
Max. splitting length		m	25
Max height difference I.U./O.U.		m	10
Splitting length without additional load		m	5
Additional load		g/m	12
<b>Indoor unit specifications</b>			
Dimensions	LxDxH	mm	700xx210x600
	Net weight	Kg	14.8
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	43/41.5/35
Sound power level (I.U.)	Hi	dB(A)	58
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	512/480/370
Motor power (Output)		W	67
Outside diameter of condensate drain		mm	ø16
<b>Specifications of outdoor units</b>			
Dimensions	LxDxH	mm	800x333x554
	Net weight	Kg	34.7
Sound pressure level (O.U.)		dB(A)	55.5
Sound power level (O.U.)		dB(A)	63
Handled air (Max)		m <sup>3</sup> /h	2000
Motor power (Output)		W	40
<b>Optional parts</b>			
Wired remote control			YES
Manual centralized control	Requires NIM-GRH interface		YES
Wi-Fi centralized control			XRV Mobile BMS

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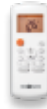
# RESIDENTIAL AND COMMERCIAL R32

## COMPACT CASSETTE 60x60 NEW

HTFU 350-530 ZAL



Infrared remote control



### Main features

2 power levels: 3.52~5.28 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (3.52 kW); A++/A+ (5.28 kW).

SEER/SCOP values 7.8/4.6 (3.52 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Compact dimensions: only 260 mm in height.

TFP 200 ZA panel with 360° air diffusion.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Possibility of access to tax deductions and to the thermal account.



Indoor unit model			HTFU 350 ZAL	HTFU 530 ZAL
Outdoor unit model			HCKI 350 ZA	HCKI 530 ZA
Type			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	3.52 (1.52~5.28)	5.28 (2.90~5.74)
Rated absorbed power (T=+35°C)		kW	0.85 (0.35~1.60)	1.63 (0.72~1.86)
Rated energy efficiency coefficient		EER <sup>3</sup>	4.14	3.24
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	7.8	6.1
Annual energy consumption		kWh/a	157	304
Theoretical load (Pdesignc)	Heating	kW	3.5	5.3
Rated capacity (T=+7°C)		kW	4.40 (1.03~5.57)	5.42 (2.37~6.10)
Rated absorbed power (T=+7°C)		kW	1.10 (0.31~1.80)	1.46 (0.70~1.93)
Rated energy performance coefficient		COP <sup>3</sup>	4.00	3.71
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A++	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.6	4.0
Annual energy consumption	kWh/a	959	1470	
Theoretical load (Pdesignh)	kW	3.1	4.2	
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
<b>Electrical data</b>				
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm <sup>2</sup>	3 x 4.0 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	3.8 (1.6~7.1)	7.2 (3.2~8.2)
	Heating	A	5.0 (1.4~7.9)	6.4 (3.1~8.5)
Maximum current		A	10	13.5
Maximum absorbed power		kW	2.35	2.95
Connection wires between I.U. and O.U.		no.	5	4
<b>Refrigerant circuit</b>				
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	0.87	1.15
Tons of CO2 equivalent		t	0.587	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")
Max. splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Splitting length without additional load		m	5	5
Additional load		g/m	12	12
<b>Indoor unit specifications</b>				
Dimensions	LxDxH	mm	570x570x260	570x570x260
	Net weight	Kg	16.2	16.2
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	41/36/33	42.5/39/35.5
Sound power level (I.U.)	Hi	dB(A)	51	56
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	617/504/416	720/625/540
Motor power (Output)		W	45	45
Outside diameter of condensate drain		mm	ø25	ø25
<b>Specifications of outdoor units</b>				
Dimensions	LxDxH	mm	800x333x554	800x333x554
	Net weight	Kg	34.7	33.7
Sound pressure level (O.U.)		dB(A)	55.5	55
Sound power level (O.U.)		dB(A)	63	63
Handled air (Max)		m <sup>3</sup> /h	2000	2000
Motor power (Output)		W	40	57
<b>Accessories</b>				
<b>Decorative panel</b>			TFP 200 ZA	
Dimensions	LxDxH	mm	647x647x50	
	Net weight	Kg	2.5	
<b>Optional parts</b>				
Wired remote control				YES
Manual centralized control				YES
Wi-Fi centralized control				XRV Mobile BMS

1 EU Delegated Regulation No 626/2011 on the new labeling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

# RESIDENTIAL AND COMMERCIAL R32

## SLIM CASSETTE 84x84

HTBI 710-1080-1400-1600 ZA



Infrared remote control



### Main features

6 power sizes: single phase 7.03 ~ 11.40 kW; three-phase 10.55 ~ 15.53 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (single-phase 7.03 kW; three-phase 10.55 ~ 15.53 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Pre-set for external air inlet.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Installation flexibility: up to 65 m splitting length and 30 m height difference between O.U. and I.U. (10.55 ~ 15.53 kW).



Indoor unit model			HTBI 710 ZA	HTBI 1080 ZA	HTBI 1400 ZA	HTBI 1080 ZA	HTBI 1400 ZA	HTBI 1600 ZA
Outdoor unit model			HCKI 710 ZA	HCKI 880 ZA	HCKI 1200 ZA	HCSI 1080 ZA	HCSI 1400 ZA	HCSI 1600 ZA
Type	FULL DC-Inverter heat pump							
Control	Remote control							
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.22~8.21)	8.79 (4.04~10.02)	11.40 (4.75~13.19)	10.55 (4.04~12.02)	14.07 (4.75~14.58)	15.53 (5.28~16.71)
Rated absorbed power (T=+35°C)		kW	2.19 (0.48~2.85)	2.93 (0.89~4.20)	3.77 (1.16~4.79)	3.95 (0.89~4.50)	5.13 (1.17~5.60)	5.95 (1.15~6.68)
Rated energy efficiency coefficient		EER <sup>3</sup>	3.21	3.00	3.02	2.67	2.74	2.61
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++	A+	A++	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.1	6.5	5.9	6.1	6.1	6.1
Annual energy consumption		kWh/a	402	479	694	602	805	901
Theoretical load (Pdesignc)	kW	7.0	8.9	11.7	10.5	14.0	15.7	
Rated capacity (T=+7°C)	Heating	kW	7.62 (2.43~8.65)	9.82 (2.94~11.48)	13.20 (3.93~15.03)	11.14 (2.95~14.14)	16.12 (3.93~16.77)	18.17 (4.40~19.34)
Rated absorbed power (T=+7°C)		kW	2.05 (0.50~2.88)	2.42 (0.72~4.15)	3.76 (0.99~4.38)	3.00 (0.72~4.75)	5.05 (0.99~5.38)	6.04 (1.02~6.45)
Rated energy performance coefficient		COP <sup>3</sup>	3.71	4.06	3.51	3.71	3.19	3.01
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A	A	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	3.8	3.9	4.0	4.0	4.0
Annual energy consumption		kWh/a	1890	2653	3303	2835	3920	4165
Theoretical load (Pdesignh)	kW	5.4	7.2	9.2	8.1	11.2	11.9	
Operating limits (external temperature)	Cooling	°C	-15~50					
	Heating	°C	-15~24					
<b>Electrical data</b>								
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ			3-380~415V-50HZ		
Power cable		Type	3 x 4 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>	3 x 6 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup>	5 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	9.5 (2.1~12.4)	12.9 (3.9~18.2)	16.5 (5.3~20.8)	6.6 (3.9~8.2)	8.3 (1.8~9.3)	9.8 (1.8~11.6)
	Heating	A	8.9 (2.2~12.5)	10.7 (3.2~18.3)	16.4 (4.5~19.9)	5.0 (3.2~8.3)	8.2 (1.6~8.9)	9.9 (1.6~11.2)
Maximum current		A	13.5	16.5	22.5	10	11.2	14
Maximum absorbed power		kW	2.95	3.60	4.80	5.60	6.20	7.50
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)					
<b>Refrigerant circuit</b>								
Refrigerant (GWP) <sup>4</sup>	R32 (675)							
Quantity refrigerant pre-load	Kg		1.5	2	2.8	2.4	2.8	2.95
Tons of CO2 equivalent	t		1.013	1.350	1.890	1.620	1.890	1.991
Diameter of refrigerant piping on liquid/gas	mm (inches)		ø9.52 (3/8") - ø15.88 (5/8")					
Max. splitting length	m		50	50	50	65	65	65
Max height difference I.U./O.U.	m		25	25	30	30	30	30
Splitting length without additional load	m		5	5	5	5	5	5
Additional load	g/m		24	24	24	24	24	24
<b>Indoor unit specifications</b>								
Dimensions	LxDxH	mm	840x840x205	840x840x245	840x840x287	840x840x245	840x840x287	840x840x287
Net weight	Kg		23	27.5	29	27.5	29	29.7
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	47/43/40	51/49/46	52/50/49	51/47/41	52/50/49	53/50.5/48
Sound power level (I.U.)	Hi	dB(A)	59	62	66	62	65	65
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	1378/1200/1032	1775/1620/1438	1715/1568/1381	1775/1620/1438	1715/1568/1381	1970/1737/1537
Motor power (Output)	W		141	141	141	141	141	232
Outside diameter of condensate drain	mm		ø32	ø32	ø32	ø32	ø32	ø32
<b>Specifications of outdoor units</b>								
Dimensions	LxDxH	mm	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
Net weight	Kg		66.8	56.9	73.9	81.5	106.7	111.3
Sound pressure level (O.U.)		dB(A)	62	60.5	67	64	66	66
Sound power level (O.U.)		dB(A)	65	69	74	68	72	74
Handled air (Max)		m <sup>3</sup> /h	2700	3600	3800	4000	7500	7500
Motor power (Output)	no. x W		1 x 115	1 x 150	1 x 150	1 x 150	2 x 126	2 x 126
<b>Accessories</b>								
<b>Decorative panel</b>						<b>TBP 710 ZA</b>		
Dimensions	LxDxH	mm	950x950x55					
Net weight	Kg		5					
<b>Optional parts</b>								
Wired remote control							YES	
Manual centralized control							YES	
Wi-Fi centralized control							XRV Mobile BMS	

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.2016/212 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO<sub>2</sub> over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

# RESIDENTIAL AND COMMERCIAL R32

## DUCTED WITH MEDIUM HEAD



HUCU 350-530 ZAL



Infrared remote control



### Main features

- 2 available power levels: 3.51-5.28 kW.
- Seasonal energy efficiency class in cooling/heating mode: A++/A+.
- Operating range in cooling and heating: -15~50° C; -15~24° C.
- Compact dimensions: only 200 mm in height (3.51 kW).
- Automatic adjustment of the head of the fan at constant flow rate.
- Flexi air inlet, from the bottom or from the back.
- Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.
- Possibility of access to tax deductions and to the thermal account.



Indoor unit model			HUCU 350 ZAL	HUCU 530 ZAL
Outdoor unit model			HCKI 350 ZA	HCKI 530 ZA
<b>Type</b>			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	3.51 (1.49~4.75)	5.28 (2.55~5.69)
Rated absorbed power (T=+35°C)		kW	0.95 (0.35~1.62)	1.63 (0.71~1.90)
Rated energy efficiency coefficient		EER <sup>3</sup>	3.69	3.24
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.5	6.1
Annual energy consumption		kWh/a	188	304
Theoretical load (Pdesignc)	Heating	kW	3.5	5.3
Rated capacity (T=+7°C)		kW	4.10 (0.97~5.63)	5.86 (2.20~6.15)
Rated absorbed power (T=+7°C)		kW	1.10 (0.35~2.05)	1.58 (0.74~1.76)
Rated energy performance coefficient		COP <sup>3</sup>	3.73	3.71
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	4.0
Annual energy consumption	kWh/a	1120	1512	
Theoretical load (Pdesignh)	kW	3.2	4.3	
Operating limits (external temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
<b>Electrical data</b>			1-220~240V-50HZ	
Power	Outdoor unit	Ph-V-Hz		
Power cable		Type	3 x 2.5 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	4.2 (1.7~7.2)	7.2 (3.2~8.3)
	Heating	A	5.0 (1.7~9.0)	7.0 (3.3~7.7)
Maximum current		A	10	13.5
Maximum absorbed power		kW	2.35	2.95
Connection wires between I.U. and O.U.		no.	5	4
<b>Refrigerant circuit</b>			R32 (675)	
Refrigerant (GWP) <sup>4</sup>				
Quantity refrigerant pre-load		Kg	0.87	1.15
Tons of CO2 equivalent		t	0.587	0.776
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")	ø6.35(1/4") - ø12.74(1/2")
Max. splitting length		m	25	30
Max height difference I.U./O.U.		m	10	20
Splitting length without additional load		m	5	5
Additional load		g/m	12	12
<b>Indoor unit specifications</b>				
Dimensions	LxDxH	mm	700x450x200	880x674x210
	Net weight	Kg	18	24.3
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	35/30.5/26	41.5/38/33
Sound power level (I.U.)	Hi	dB(A)	56	59
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	600/480/300	880/650/350
Fan pressure head	Std/Max	Pa	25/60	25/100
Motor power (Output)		W	130	90
Outside diameter of condensate drain		mm	ø25	ø25
<b>Specifications of outdoor units</b>				
Dimensions	LxDxH	mm	800x333x554	800x333x554
	Net weight	Kg	34.7	33.7
Sound pressure level (O.U.)		dB(A)	55.5	55
Sound power level (O.U.)		dB(A)	63	63
Handled air (Max)		m <sup>3</sup> /h	2000	2000
Motor power (Output)		no. x W	1 x 40	1 x 57
<b>Optional parts</b>				
Wired remote control			YES	
Manual centralized control			YES	
Wi-Fi centralized control			XRV Mobile BMS	

1 EU Delegated Regulation No.626/2011 on the new labeling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

# RESIDENTIAL AND COMMERCIAL R32

## DUCTED WITH MEDIUM HEAD

HUCI 710-1080-1400-1600 ZA



Infrared remote control



### Main features

6 power sizes: single phase 7.03 ~ 12.31 kW;  
three-phase 10.55 ~ 15.24 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+.

Operating range in cooling and heating: -15~50° C;  
-15~24° C.

160 Pa maximum fan static pressure.

Automatic adjustment of the head of the fan at constant flow rate.

Flexi air inlet, from the bottom or from the back.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.



Indoor unit model		HUCI 710 ZA	HUCI 1080 ZA	HUCI 1400 ZA	HUCI 1080 ZA	HUCI 1400 ZA	HUCI 1600 ZA	
Outdoor unit model		HCKI 710 ZA	HCKI 880 ZA	HCKI 1200 ZA	HCSI 1080 ZA	HCSI 1400 ZA	HCSI 1600 ZA	
<b>Type</b>		FULL DC-Inverter heat pump						
<b>Control</b>		Remote control						
Rated capacity (T=+35°C)	Cooling	kW	7.03 (3.28~8.16)	8.79 (2.23~9.82)	12.31 (2.58~12.31)	10.55 (4.04~12.02)	14.07 (4.26~15.19)	15.24 (5.86~17.29)
Rated absorbed power (T=+35°C)		kW	2.19 (0.48~2.85)	2.60 (0.19~3.35)	3.65 (0.23~4.35)	4.10 (0.89~4.98)	5.15 (1.17~5.70)	5.42 (1.27~6.65)
Rated energy efficiency coefficient		EER <sup>3</sup>	3.21	3.38	3.37	2.57	2.73	2.81
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.1	6.1	6.1	6.1	6.1	6.1
Annual energy consumption		kWh/a	402	505	711	602	808	878
Theoretical load (Pdesignc)		kW	7.0	8.8	12.4	10.5	14.0	15.3
Rated capacity (T=+7°C)	Heating	kW	7.62 (2.72~8.72)	9.38 (2.70~11.14)	13.48 (2.05~14.27)	11.14 (2.81~13.19)	16.12 (3.7~18.02)	18.17 (4.69~20.52)
Rated absorbed power (T=+7°C)		kW	2.05 (0.50~2.88)	2.30 (0.43~2.90)	3.68 (0.34~4.29)	3.00 (0.78~4.67)	4.28 (0.95~5.82)	5.33 (1.04~6.03)
Rated energy performance coefficient		COP <sup>3</sup>	3.72	4.08	3.66	3.71	3.77	3.41
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A+	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	4.0	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	1911	2800	3360	2968	4263	4375
Theoretical load (Pdesignh)		kW	5.4	8.0	9.6	8.4	12.1	12.5
Operating limits (external temperature)	Cooling	°C	-15~50					
	Heating	°C	-15~24					
<b>Electrical data</b>								
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ			3-380~415V-50HZ		
Power cable		Type	3 x 4 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>	3 x 6 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup>	5 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	9.5 (2.1~12.4)	11.8 (2.0~15.5)	16.0 (1.5~19.1)	6.5 (1.4~8.2)	8.3 (1.8~9.4)	8.9 (2.0~11.6)
	Heating	A	8.9 (2.2~12.5)	10.6 (3.0~13.5)	16.2 (1.9~18.8)	4.7 (1.3~7.4)	6.8 (1.5~9.2)	8.8 (1.6~10.5)
Maximum current		A	13.5	16.5	22.5	10	11.2	14
Maximum absorbed power		kW	2.95	3.60	4.80	5.60	6.20	7.50
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)					
<b>Refrigerant circuit</b>								
Refrigerant (GWP) <sup>4</sup>	R32 (675)							
Quantity refrigerant pre-load	Kg	1.5	2	2.8	2.4	2.8	2.95	
Tons of CO2 equivalent	t	1.013	1.350	1.890	1.620	1.890	1.991	
Diameter of refrigerant piping on liquid/gas	mm (inches)	ø9.52(3/8") - ø15.88(5/8")						
Max. splitting length	m	50	50	50	65	65	65	
Max height difference I.U./O.U.	m	25	25	30	30	30	30	
Splitting length without additional load	m	5	5	5	5	5	5	
Additional load	g/m	24	24	24	24	24	24	
<b>Indoor unit specifications</b>								
Dimensions	LxDxH	mm	1100x774x249	1360x774x249	1200x874x300	1360x774x249	1200x874x300	1200x874x300
	Net weight	Kg	31.5	40.5	47.6	40.5	47.6	47.6
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	42/40/38	47/43/40	51/50/48	47/43/40	51/50/48	54/52/51
Sound power level (I.U.)	Hi	dB(A)	62	63	68	63	68	71
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	1248/1054/839	1400/1150/750	2400/2040/1680	1400/1150/750	2400/2040/1680	2600/2210/1820
Fan pressure head	Std/Max	Pa	25/160	37/160	50/160	37/160	50/160	50/160
Motor power (Output)		W	90	250	560	250	560	560
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25	ø25	ø25
<b>Specifications of outdoor units</b>								
Dimensions	LxDxH	mm	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
	Net weight	Kg	66.8	56.9	73.9	81.5	106.7	111.3
Sound pressure level (O.U.)		dB(A)	62	60.5	67	64	66	66
Sound power level (O.U.)		dB(A)	65	69	74	68	72	74
Handled air (Max)		m <sup>3</sup> /h	2700	3600	3800	4000	7500	7500
Motor power (Output)		no. x W	1 x 115	1 x 150	1 x 150	1 x 150	2 x 126	2 x 126
<b>Optional parts</b>								
Wired remote control	YES							
Manual centralized control	YES							
Wi-Fi centralized control	XRV Mobile BMS							

1 EU Delegated Regulation No.626/2011 on the new labeling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

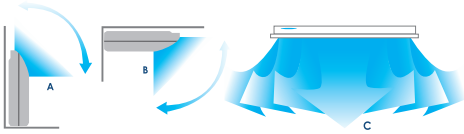
# RESIDENTIAL AND COMMERCIAL R32

## FLOOR/CEILING

HSFU 530 ZAL - HSF1 710-1080-1400-1600 ZA1



Infrared remote control



Installation flexibility: possibility of installation even in the corners of the ceiling, in the event that it is not possible to install the unit in the centre of the room due to the presence of any obstacles.

### Main features

7 power sizes: single phase 5.28 ~ 11.7 kW; three-phase 10.55 ~ 15.83 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (single-phase 5.28 ~ 7.03; three-phase 10.55 ~ 15.83 kW).

Operating range in cooling and heating: -15~50° C; -15~24° C.

Terminal for remote on-off control and output for alarm signal in case of malfunction.

Turbo function, for heating and cooling the room quickly.



Indoor unit model		HSFU 530 ZAL	HSF1 710 ZA1	HSF1 1080 ZA1	HSF1 1400 ZA1	HSF1 1080 ZA1	HSF1 1400 ZA1	HSF1 1600 ZA1	
Outdoor unit model		HCKI 530 ZA	HCKI 710 ZA	HCKI 880 ZA	HCKI 1200 ZA	HCSI 1080 ZA	HCSI 1400 ZA	HCSI 1600 ZA	
Type		FULL DC-Inverter heat pump							
Control		Remote control							
Rated capacity (T=+35°C)	Cooling	kW	5.28 (2.71~5.57)	7.03 (3.22~8.29)	8.79 (4.04~10.02)	11.7 (4.96~13.11)	10.55 (3.93~12.02)	14.07 (4.96~15.11)	15.83 (5.28~17.00)
Rated absorbed power (T=+35°C)		kW	1.63 (0.67~1.85)	2.19 (0.48~2.93)	2.65 (0.89~4.00)	3.73 (1.16~4.72)	3.75 (0.87~4.50)	5.50 (1.16~6.00)	6.06 (1.23~6.50)
Rated energy efficiency coefficient		EER <sup>3</sup>	3.24	3.21	3.32	3.14	2.81	2.67	2.61
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.1	6.1	7.0	7.0	6.1	6.1	6.1
Annual energy consumption	kWh/a	304	402	440	590	602	803	916	
Theoretical load (Pdesignc)	kW	5.3	7.0	8.8	11.8	10.5	14.0	15.9	
Rated capacity (T=+7°C)	Heating	kW	5.57 (2.42~6.30)	7.62 (2.72~8.65)	9.82 (2.94~11.48)	12.90 (3.81~14.96)	11.14 (2.81~13.95)	16.12 (3.81~18.07)	18.17 (4.4~19.64)
Rated absorbed power (T=+7°C)		kW	1.50 (0.54~1.64)	2.05 (0.50~2.85)	2.37 (0.72~4.05)	3.82 (1.03~4.20)	3.00 (0.73~4.89)	5.05 (1.03~6.20)	6.04 (1.02~6.55)
Rated energy performance coefficient		COP <sup>3</sup>	3.71	3.72	4.14	3.38	3.71	3.19	3.01
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A+	A	A	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	4.0	3.8	3.8	4.0	4.0	4.0
Annual energy consumption	kWh/a	1435	1890	2689	3398	3150	4025	4165	
Theoretical load (Pdesignh)	kW	4.1	5.4	7.3	9.3	9.0	11.5	11.9	
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24	-15~24
Electrical data									
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ				3-380~415V-50HZ		
Power cable	Type		3 x 4 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>	3 x 6 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup>	5 x 2.5 mm <sup>2</sup>	5 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	7.2 (3.2~8.2)	10.0 (2.1~13.1)	11.8 (3.9~17.4)	16.3 (5.6~20.5)	5.8 (1.2~8.2)	9.1 (1.8~9.8)	10.5 (1.9~11.3)
	Heating	A	6.6 (2.7~7.3)	9.5 (2.2~12.7)	10.6 (3.2~17.4)	16.7 (5.6~18.3)	4.8 (1.2~8.3)	8.1 (1.6~10.3)	9.9 (1.6~11.5)
Maximum current	A		13.5	13.5	16.5	22.5	10	11.2	14
Maximum absorbed power	kW		2.95	2.95	3.60	4.80	5.60	6.20	7.50
Connection wires between I.U. and O.U.	no.		4			5 (2 of which shielded)			
Refrigerant circuit									
Refrigerant (GWP) <sup>4</sup>			R32 (675)						
Quantity refrigerant pre-load	Kg		1.15	1.5	2	2.8	2.4	2.8	2.95
Tons of CO2 equivalent	t		0.76	1.013	1.350	1.890	1.620	1.890	1.991
Diameter of refrigerant piping on liquid/gas	mm (inches)		ø6.35(1/4") - ø12.74(1/2")			ø9.52(3/8") - ø15.88(5/8")			
Max. splitting length	m		30	50	50	50	65	65	65
Max height difference I.U./O.U.	m		20	25	25	30	30	30	30
Splitting length without additional load	m		5	5	5	5	5	5	5
Additional load	g/m		12	24	24	24	24	24	24
Indoor unit specifications									
Dimensions	LxDxH	mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235	1650x675x235
	Net weight	Kg	28	26.8	39	41.2	39	41.2	41.4
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	41.5/38.5/34.5	50/46/41	51/47/42	54/50/46	51/47/42	54/50/46	54/47/42
Sound power level (I.U.)	Hi	dB(A)	58	61	62	67	59	66	69
Handled air volume	Hi/Mi/Lo	m <sup>3</sup> /h	880/760/650	1208/1066/853	2160/1844/1431	2329/1930/1417	2160/1844/1431	2329/1930/1417	2454/1834/1426
Motor power (Output)	no. x W		1 x 96	1 x 100	2 x 96	2 x 96	2 x 96	2 x 96	2 x 90
Outside diameter of condensate drain	mm		ø25	ø25	ø25	ø25	ø25	ø25	ø25
Specifications of outdoor units									
Dimensions	LxDxH	mm	800x333x554	845x363x702	946x410x810	946x410x810	946x410x810	952x415x1333	952x415x1333
	Net weight	Kg	33.7	66.8	56.9	73.9	81.5	106.7	111.3
Sound pressure level (O.U.)		dB(A)	55	62	60.5	67	64	66	66
Sound power level (O.U.)		dB(A)	63	65	69	74	68	72	74
Handled air (Max)		m <sup>3</sup> /h	2000	2700	3600	3800	4000	7500	7500
Motor power (Output)	no. x W		1 x 57	1 x 115	1 x 150	1 x 150	1 x 150	2 x 126	2 x 126
Optional parts									
Wired remote control			YES						
Manual centralized control			YES						
Wi-Fi centralized control			XRV Mobile BMS						

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

# RESIDENTIAL AND COMMERCIAL R32

## TWIN COMBINATIONS



Indoor unit model			2 x HTBI 710 ZA	2 x HTBI 1080 ZA
Outdoor unit model			HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	14.06 (4.68~14.60)	15.53 (5.28~16.71)
Rated absorbed power (T=+35°C)		kW	5.13 (1.17~5.60)	5.95 (1.15~6.68)
Rated energy efficiency coefficient		EER <sup>3</sup>	2.74	2.61
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.1	6.1
Annual energy consumption		kWh/a	803	901
Theoretical load (Pdesignc)	Heating	kW	14.0	15.7
Rated capacity (T=+7°C)		kW	16.12 (3.93~16.76)	18.17 (4.40~19.34)
Rated absorbed power (T=+7°C)		kW	5.05 (0.99~5.38)	6.04 (1.02~6.45)
Rated energy performance coefficient		COP <sup>3</sup>	3.19	3.01
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	4.0
Annual energy consumption	kWh/a	3920	4165	
Theoretical load (Pdesignh)		kW	11.2	11.9
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power	Indoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ	3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm <sup>2</sup>	5 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	8.3 (1.8~9.3)	9.8 (1.8~11.0)
	Heating	A	8.2 (1.6~8.8)	9.9 (1.6~10.6)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
Refrigerant circuit				
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	2.8	2.95
Tons of CO2 equivalent		t	1.890	1.991
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52(3/8") - ø15.88(5/8")	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length		m	65	65
Max height difference I.U./O.U.		m	30	30
Splitting length without additional load		m	5	5
Additional load		g/m	24	24



Indoor unit model			2 x HUCI 710 ZA	2 x HUCI 1080 ZA
Outdoor unit model			HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	14.07 (4.28~15.24)	15.24 (5.86~17.29)
Rated absorbed power (T=+35°C)		kW	5.15 (1.17~5.70)	5.42 (1.27~6.65)
Rated energy efficiency coefficient		EER <sup>3</sup>	2.73	2.81
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.1	6.1
Annual energy consumption		kWh/a	803	884
Theoretical load (Pdesignc)	Heating	kW	14.0	15.4
Rated capacity (T=+7°C)		kW	16.12 (3.69~18.02)	18.17 (4.69~20.52)
Rated absorbed power (T=+7°C)		kW	4.28 (1.05~6.12)	5.33 (1.04~6.03)
Rated energy performance coefficient		COP <sup>3</sup>	3.77	3.41
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	4.0
Annual energy consumption	kWh/a	4200	4375	
Theoretical load (Pdesignh)		kW	12.0	12.5
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
Electrical data				
Power	Indoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ	3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm <sup>2</sup>	5 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	8.3 (1.8~9.4)	8.9 (2.0~11.0)
	Heating	A	6.8 (1.7~10.2)	8.8 (1.6~9.9)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
Refrigerant circuit				
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	2.8	2.95
Tons of CO2 equivalent		t	1.890	1.991
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52(3/8") - ø15.88(5/8")	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length		m	65	65
Max height difference I.U./O.U.		m	30	30
Splitting length without additional load		m	5	5
Additional load		g/m	24	24

# RESIDENTIAL AND COMMERCIAL R32

## TWIN COMBINATIONS



Indoor unit model			2 x HSF1 710 ZA1	2 x HSF1 1080 ZA1
Outdoor unit model			HCSI 1400 ZA	HCSI 1600 ZA
Type			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	14.07 (4.96~15.12)	15.83 (5.28~17.00)
Rated absorbed power (T=+35°C)		kW	5.50 (1.16~5.70)	6.06 (1.23~6.30)
Rated energy efficiency coefficient		EER <sup>3</sup>	2.56	2.61
Seasonal energy efficiency class		626/2011 <sup>1</sup>	A++	A++
Seasonal energy efficiency index		SEER <sup>2</sup>	6.1	6.1
Annual energy consumption		kWh/a	815	912
Theoretical load (Pdesignc)	Heating	kW	14.2	15.9
Rated capacity (T=+7°C)		kW	16.12 (3.81~18.05)	18.17 (4.40~19.64)
Rated absorbed power (T=+7°C)		kW	5.05 (1.03~6.20)	6.04 (1.02~6.55)
Rated energy performance coefficient		COP <sup>3</sup>	3.19	3.01
Energy efficiency class (intermediate climate season)		626/2011 <sup>1</sup>	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP <sup>2</sup>	4.0	4.0
Annual energy consumption	kWh/a	3885	4165	
Theoretical load (Pdesignh)		kW	11.1	11.9
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50
	Heating	°C	-15~24	-15~24
<b>Electrical data</b>				
Power	Indoor unit	Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ	3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm <sup>2</sup>	5 x 4 mm <sup>2</sup>
Absorbed current (rated)	Cooling	A	9.1 (1.8~9.3)	10.5 (1.9~10.3)
	Heating	A	8.1 (1.6~10.3)	9.9 (1.6~10.8)
Maximum current		A	11.2	14.0
Maximum absorbed power		kW	6.20	7.50
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)	5 (2 of which shielded)
<b>Refrigerant circuit</b>				
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)
Quantity refrigerant pre-load		Kg	2.8	2.95
Tons of CO2 equivalent		t	1.890	1.991
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52(3/8") - ø15.88(5/8")	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length		m	65	65
Max height difference I.U./O.U.		m	30	30
Splitting length without additional load		m	5	5
Additional load		g/m	24	24

For the specifications of the units, the connectable accessories and the optional parts, refer to the tables of the single models.  
 1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant was released into the atmosphere, then the impact on global warming would be 675 times higher than 1 kg of CO2, for a period of 100 years. In no case should the user try to intervene on the refrigerant circuit or to disassemble the product. Always contact qualified personnel if necessary.

The indoor units that can be used in the twin combinations are the slim cassette, the medium head duct and the floor/ceiling combined with outdoor units of 14.00 and 16.00 kW.



## R32 MULTISPLIT

Outdoor unit - Up to 4 connectable indoor units



HCKU 470 Z2  
HCKU 530 Z2



HCKU 600 Z3  
HCKU 760 Z3



HCKU 810 Z4

### Main features

Energy efficiency class in cooling/heating mode A++/A+ (5.28~7.91 kW).

Broad operating range in heating mode up to an outdoor temperature of -15° C, in cooling mode up to an outdoor temperature of +50° C.

Maximum flexibility and ease of installation guaranteed by long refrigerant pipe length.

Model			HCKU 470 Z2	HCKU 530 Z2	HCKU 600 Z3	HCKU 760 Z3	HCKU 810 Z4
<b>Type</b>		Outdoor DC-Inverter heat pump unit					
Connectable indoor units (min - max)	no.		1 - 2	1 - 2	2 - 3	2 - 3	2 - 4
Rated capacity (T=+35°C)	kW		4.10 (1.82~4.81)	5.28 (2.05~6.86)	6.15 (1.94~6.86)	7.91 (2.89~8.50)	8.21 (2.05~9.85)
Rated absorbed power (T=+35°C)	kW		1.27 (0.17~1.71)	1.63 (0.69~2.00)	1.95 (0.18~2.24)	2.45 (0.24~3.22)	2.54 (0.89~3.18)
Rated energy efficiency coefficient	EER <sup>3</sup>		3.23	3.24	3.16	3.23	3.23
Seasonal energy efficiency class	626/2011 <sup>1</sup>		A+	A++	A++	A++	A++
Seasonal energy efficiency index	SEER <sup>2</sup>		5.6	6.1	6.1	6.1	6.1
Annual energy consumption	kWh/a		256	304	350	453	470
Theoretical load (Pdesignc)	kW		4.1	5.3	6.1	7.9	8.2
Rated capacity (T=+7°C)	kW		4.40 (1.53~5.10)	5.57 (2.34~7.24)	6.60 (1.73~7.25)	8.21 (1.99~8.50)	8.79 (2.34~10.55)
Rated absorbed power (T=+7°C)	kW		1.185 (0.27~1.71)	1.50 (0.60~1.67)	1.78 (0.33~1.92)	2.20 (0.32~2.84)	2.20 (0.77~2.75)
Rated energy performance coefficient	COP <sup>3</sup>		3.71	3.71	3.71	3.73	4.00
Energy efficiency class (intermediate climate season)	626/2011 <sup>1</sup>		A	A+	A+	A+	A
Seasonal energy efficiency index (intermediate climate season)	SCOP <sup>2</sup>		3.8	4.0	4.0	4.0	3.8
Annual energy consumption	kWh/a		1363	1537	1960	1993	2395
Theoretical load (Pdesignh)	kW		3.7	4.3	5.6	5.7	6.5
Operating limits (external temperature)	Cooling	°C	-15~50	-15~50	-15~50	-15~50	-15~50
	Heating	°C	-15~24	-15~24	-15~24	-15~24	-15~24
<b>Electrical data</b>							
Power	Ph-V-Hz		1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ	1-220~240V-50HZ
Power cable	Type		3 x 2.5 mm <sup>2</sup>	3 x 2.5 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>	3 x 4 mm <sup>2</sup>
Rated absorbed current	Cooling	A	5.5 (0.7~9.3)	7.1 (3.1~9.2)	9.0 (1.1~9.9)	13.7 (2.2~14.3)	11.3 (3.9~14.1)
	Heating	A	5.2 (1.2~9.4)	6.6 (2.6~7.9)	8.5 (1.9~8.5)	12.5 (2.6~12.6)	9.8 (3.4~12.2)
Maximum current	A		11.5	13	15.5	17.5	19
Maximum absorbed power	kW		2.65	2.85	3.30	3.60	4.15
Connection wires between each I.U. and O.U.	no.		4	4	4	4	4
<b>Refrigerant circuit</b>							
Refrigerant (GWP) <sup>4</sup>			R32 (675)	R32 (675)	R32 (675)	R32 (675)	R32 (675)
Quantity refrigerant pre-load	Kg		1.10	1.25	1.4	1.72	2.1
Tons of CO2 equivalent	t		0.743	0.844	0.945	1.161	1.418
Diameter of refrigerant piping on liquid/gas	mm (inches)		2 x ø6.35(1/4") - 2 x ø9.52(3/8")		3 x ø6.35(1/4") - 3 x ø9.52(3/8")		4 x ø6.35(1/4") - 3 x ø9.52(3/8") + 1 x ø12.74(1/2")
Total splitting length	m		40	40	60	60	80
Max length of a single refrigeration line	m		25	25	30	30	35
Max I.U./O.U. height difference	m		15	15	15	15	15
Max height difference between I.U.	m		10	10	10	10	10
Splitting length without additional load	m		15	15	22.5	22.5	30
Additional load	g/m		12	12	12	12	12
<b>Product specifications</b>							
Dimensions	LxDxH	mm	800x333x554	800x333x554	845x363x702	845x363x702	946x410x810
	Net weight	Kg	31.6	35.5	46.8	51.1	62.1
Sound pressure level		dB(A)	57	56	57.5	54	61.5
Sound power level		dB(A)	64	65	65	67	67
Handled air (Max)		m <sup>3</sup> /h	2200	2200	3000	2700	3800
Motor power (Input)		W	34	34	115	115	150

Energy efficiency values refer to the following combinations: HCKU470Z2 + 2xHKEU203ZL -- HCKU530Z2 + 2xHKEU264ZAL -- HCKU600Z3 + 3xHKEU203ZL -- HCKU760Z3 + 3xHKEU264ZAL -- HCKU 810 Z4 + 4xHKEU203ZL

1 EU Delegated Regulation No.626/2011 on the new labelling indicating the energy consumption of air conditioners. 2 EU Regulation No.206/2012 - Value measured according to harmonised standard EN14825. 3 Value measured according to harmonised standard EN14511. 4 Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 675. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 675 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

## RESIDENTIAL AND COMMERCIAL R32

### TOP CLASS DC INVERTER MULTISPLIT INTERNAL UNITS



Wall HKEU 264-354 ZAL



Infrared  
remote  
control



Model			HKEU 264 ZAL		HKEU 354 ZAL	
Type			Indoor wall unit			
Control			Remote control			
Rated heating	Cooling	kW	2.6		3.5	
	Heating	kW	2.9		3.8	
<b>Electrical data</b>						
Power		Ph-V-Hz	-		-	
Connection wires between I.U. and O.U.		no.	4		4	
Refrigerant circuit						
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")		ø6.35(1/4") - ø9.52(3/8")	
<b>Product specifications</b>						
Dimensions	LxDxH	mm	802x189x297		802x189x297	
	Net weight	Kg	8.5		8.5	
Sound pressure level	Hi/Mi/Lo/Ulo	dB(A)	42/35/25/21.5		42/35/25/22	
Sound power level	Hi	dB(A)	56		56	
Treated air (High / Med. / Low)		m <sup>3</sup> /h	611/479/360		611/479/360	
Motor power (Output)		W	50		50	
<b>Optional parts</b>						
Wi-Fi module			KK-WIFI KIT			
Wired remote control			NO			
Centralised control			NO			

### ACTIVE LINE DC INVERTER MULTISPLIT INTERNAL UNITS



Wall HKEU 203 ZL - HKEU 263-353-533 ZAL



Infrared  
remote  
control



Model			HKEU 203 ZL		HKEU 263 ZAL		HKEU 353 ZAL		HKEU 533 ZAL	
Type			Indoor wall unit							
Control			Remote control							
Rated heating	Cooling	kW	2.1		2.6		3.5		5.3	
	Heating	kW	2.3		2.9		3.8		5.6	
<b>Electrical data</b>										
Power		Ph-V-Hz	-		-		-		-	
Connection wires between I.U. and O.U.		no.	4		4		4		4	
<b>Refrigerant circuit</b>										
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")		ø6.35(1/4") - ø9.52(3/8")		ø6.35(1/4") - ø15.88(3/8")		ø6.35(1/4") - ø12.74(1/2")	
<b>Product specifications</b>										
Dimensions	LxDxH	mm	805x194x285		805x194x285		805x194x285		957x213x302	
	Net weight	Kg	7.5		7.5		7.5		10	
Sound pressure level	Hi/Mi/Lo/Ulo	dB(A)	40/30/26/21		40/30/26/21		40/34/26/22		44/37/30/25	
Sound power level	Hi	dB(A)	54		53		53		55	
Treated air (High / Med. / Low)		m <sup>3</sup> /h	520/460/340		520/460/340		600/500/360		840/680/540	
Motor power (Output)		W	40		40		40		36	
<b>Optional parts</b>										
Wi-Fi module			KK-WIFI KIT							
Wired remote control			NO							
Centralised control			NO							



## TECHNICAL APPENDIX

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R32 combinations

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# RESIDENTIAL AND COMMERCIAL R32

## R32 COMBINATIONS

### HCKU 470 Z2 Cooling

Combinations	Unit indoor	Combination		Cooling capacity (kW)		Total Cooling performance (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy Class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B									
1 units	53	53	—	4.10	—	4.10	1.27	3.23	—	—	—	—	YES	-
2 units	<b>20+20</b>	<b>20</b>	<b>20</b>	<b>2.05</b>	<b>2.05</b>	<b>4.10</b>	<b>1.27</b>	<b>3.23</b>	<b>4.1</b>	<b>5.6</b>	<b>256</b>	<b>A+</b>	<b>YES</b>	<b>-</b>
	20+26	20	26	1.79	2.31	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-
	20+35	20	35	1.51	2.59	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-
	26+26	26	26	2.05	2.05	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-
	26+35	26	35	1.76	2.34	4.10	1.27	3.23	4.1	5.6	256	A+	YES	-

### HCKU 470 Z2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B									
1 units	53	53	—	4.40	—	4.40	1.19	3.71	—	—	—	—	YES	YES
2 units	<b>20+20</b>	<b>20</b>	<b>20</b>	<b>2.20</b>	<b>2.20</b>	<b>4.40</b>	<b>1.19</b>	<b>3.71</b>	<b>3.7</b>	<b>3.8</b>	<b>1363</b>	<b>A</b>	<b>YES</b>	<b>YES</b>
	20+26	20	26	1.93	2.48	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES
	20+35	20	35	1.62	2.78	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES
	26+26	26	26	2.20	2.20	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES
	26+35	26	35	1.89	2.51	4.40	1.19	3.71	3.7	3.8	1363	A	YES	YES

### HCKU 530 Z2 Cooling

Combinations	Unit indoor	Combination		Rated cooling capacity (kW)		Total cooling capacity (kW)	Power absorption (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B									
1 units	53	53	—	5.00	—	5.00	1.55	3.23	—	—	—	—	YES	-
2 units	20+35	20	35	1.92	3.28	5.20	1.61	3.23	5.3	6.0	309	A+	YES	-
	20+53	20	53	1.50	3.88	5.35	1.65	3.25	5.3	6.0	309	A+	YES	-
	<b>26+26</b>	<b>26</b>	<b>26</b>	<b>2.65</b>	<b>2.65</b>	<b>5.30</b>	<b>1.63</b>	<b>3.24</b>	<b>5.3</b>	<b>6.0</b>	<b>309</b>	<b>A+</b>	<b>YES</b>	<b>-</b>
	26+35	26	35	2.27	3.03	5.30	1.63	3.24	5.3	6.0	309	A+	YES	-
	26+53	26	53	1.78	3.57	5.35	1.65	3.25	5.3	6.0	309	A+	YES	-
	35+35	35	35	2.65	2.65	5.30	1.63	3.24	5.3	6.0	309	A+	YES	-

### HCKU 530 Z2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Power absorption (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit A	Unit B									
1 units	53	53	—	5.20	—	5.20	1.35	3.85	—	—	—	—	YES	YES
2 units	20+35	20	35	2.03	3.47	5.50	1.37	4.01	4.8	3.8	1768	A	YES	YES
	20+53	20	53	1.60	4.14	5.70	1.42	4.01	4.8	3.8	1768	A	YES	YES
	<b>26+26</b>	<b>26</b>	<b>26</b>	<b>2.79</b>	<b>2.79</b>	<b>5.57</b>	<b>1.39</b>	<b>4.01</b>	<b>4.8</b>	<b>3.8</b>	<b>1768</b>	<b>A</b>	<b>YES</b>	<b>YES</b>
	26+35	26	35	2.40	3.20	5.60	1.40	4.01	4.8	3.8	1768	A	YES	YES
	26+53	26	53	1.93	3.87	5.80	1.45	4.01	4.8	3.8	1768	A	YES	YES
	35+35	35	35	2.80	2.80	5.60	1.40	4.01	4.8	3.8	1768	A	YES	YES

### HCKU 600 Z3 Cooling

Combinations	Unit indoor	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesignc	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C									
2 units	20+35	20	35	—	1.95	3.35	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	20+53	20	53	—	1.76	4.54	—	6.30	1.95	3.23	6.1	5.6	381	A+	YES	-
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.86	3.23	6.0	5.6	375	A+	YES	-
	26+53	26	53	—	2.10	4.20	—	6.30	1.94	3.24	6.1	5.6	381	A+	YES	-
	35+35	35	35	—	3.10	3.10	—	6.20	1.92	3.23	6.1	5.6	381	A+	YES	-
	<b>20+20+20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>2.03</b>	<b>2.03</b>	<b>2.03</b>	<b>6.10</b>	<b>1.89</b>	<b>3.23</b>	<b>6.1</b>	<b>6.1</b>	<b>350</b>	<b>A++</b>	<b>YES</b>	<b>-</b>
3 units	20+20+26	20	20	26	1.92	1.92	2.47	6.30	1.95	3.23	6.1	6.1	350	A++	YES	-
	20+20+35	20	20	35	1.70	1.70	2.91	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	20+26+26	20	26	26	1.76	2.27	2.27	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	20+26+35	20	26	35	1.58	2.03	2.70	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	26+26+26	26	26	26	2.10	2.10	2.10	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-
	26+26+35	26	26	35	1.89	1.89	2.52	6.30	1.94	3.24	6.1	6.1	350	A++	YES	-

# RESIDENTIAL AND COMMERCIAL R32

## R32 COMBINATIONS

### HCKU 600 Z3 Heating

Combinations	Indoor Units	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesign <sup>h</sup>	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal Account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	2.17	3.73	—	5.90	1.59	3.71	4.8	3.8	1768	A	YES	YES
	20+53	20	53	—	1.82	4.68	—	6.50	1.75	3.71	5.1	3.8	1886	A+	YES	YES
	26+26	26	26	—	2.95	2.95	—	5.90	1.59	3.71	4.8	3.8	1768	A	YES	YES
	26+35	26	35	—	2.70	3.60	—	6.30	1.70	3.71	5.1	3.8	1886	A+	YES	YES
	26+53	26	53	—	2.20	4.40	—	6.60	1.78	3.71	5.1	3.8	1886	A+	YES	YES
	35+35	35	35	—	3.15	3.15	—	6.30	1.70	3.71	5.1	3.8	1886	A+	YES	YES
3 units	<b>20+20+20</b>	<b>20</b>	<b>20</b>	<b>20</b>	<b>2.20</b>	<b>2.20</b>	<b>2.20</b>	<b>6.60</b>	<b>1.78</b>	<b>3.71</b>	<b>5.6</b>	<b>4.0</b>	<b>1960</b>	<b>A+</b>	<b>YES</b>	<b>YES</b>
	20+20+26	20	20	26	2.02	2.02	2.60	6.65	1.79	3.72	5.6	4.0	1960	A+	YES	YES
	20+20+35	20	20	35	1.80	1.80	3.09	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES
	20+26+26	20	26	26	1.88	2.41	2.41	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES
	20+26+35	20	26	35	1.68	2.15	2.87	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES
	26+26+26	26	26	26	2.23	2.23	2.23	6.70	1.81	3.71	5.6	4.0	1960	A+	YES	YES
	26+26+35	26	26	35	2.01	2.01	2.68	6.70	1.80	3.72	5.6	4.0	1960	A+	YES	YES

### HCKU 760 Z3 Cooling

Combinations	Indoor Units	Combination			Rated cooling capacity (kW)			Total cooling capacity (kW)	Absorbed power (kW)	EER (W/W)	Pdesign <sup>c</sup>	SEER	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	1.95	3.35	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	20+53	20	53	—	1.82	4.68	—	6.50	2.01	3.23	6.5	5.6	406	A+	YES	-
	26+26	26	26	—	2.65	2.65	—	5.30	1.64	3.23	5.3	5.6	331	A+	YES	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.86	3.23	6.0	5.6	375	A+	YES	-
	26+53	26	53	—	2.27	4.53	—	6.80	2.09	3.25	6.8	5.6	425	A+	YES	-
	35+35	35	35	—	3.15	3.15	—	6.30	1.94	3.24	6.3	5.6	394	A+	YES	-
	35+53	35	53	—	2.72	4.08	—	6.80	2.09	3.25	6.8	5.6	425	A+	YES	-
3 units	20+20+20	20	20	20	2.43	2.43	2.43	7.30	2.26	3.23	7.3	6.1	419	A++	YES	-
	20+20+26	20	20	26	2.25	2.25	2.90	7.40	2.29	3.23	7.4	6.1	425	A++	YES	-
	20+20+35	20	20	35	2.13	2.13	3.65	7.90	2.45	3.23	7.9	6.1	453	A++	YES	-
	20+20+53	20	20	53	1.73	1.73	4.44	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	20+26+26	20	26	26	2.13	2.74	2.74	7.60	2.35	3.23	7.6	6.1	436	A++	YES	-
	20+26+35	20	26	35	1.98	2.54	3.39	7.90	2.45	3.23	7.9	6.1	453	A++	YES	-
	20+26+53	20	26	53	1.63	2.09	4.18	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	20+35+35	20	35	35	1.78	3.06	3.06	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	<b>26+26+26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>2.63</b>	<b>2.63</b>	<b>2.63</b>	<b>7.90</b>	<b>2.45</b>	<b>3.23</b>	<b>7.9</b>	<b>6.1</b>	<b>453</b>	<b>A++</b>	<b>YES</b>	<b>-</b>
	26+26+35	26	26	35	2.37	2.37	3.16	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	26+35+35	26	35	35	2.15	2.87	2.87	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-
	35+35+35	35	35	35	2.63	2.63	2.63	7.90	2.43	3.25	7.9	6.1	453	A++	YES	-

### HCKU 760 Z3 Heating

Combinations	Indoor Units	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesign <sup>h</sup>	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit A	Unit B	Unit C	std.	std.	Std. power						
2 units	20+35	20	35	—	2.21	3.79	—	6.00	1.57	3.81	5.1	3.8	1879	A	YES	YES
	20+53	20	53	—	1.96	5.04	—	7.00	1.84	3.81	5.1	3.8	1879	A	YES	YES
	26+26	26	26	—	3.00	3.00	—	6.00	1.57	3.81	5.1	3.8	1879	A	YES	YES
	26+35	26	35	—	2.70	3.60	—	6.30	1.65	3.81	5.1	3.8	1879	A	YES	YES
	26+53	26	53	—	2.33	4.67	—	7.00	1.84	3.81	5.1	3.8	1879	A	YES	YES
	35+35	35	35	—	3.25	3.25	—	6.50	1.71	3.81	5.1	3.8	1879	A	YES	YES
	35+53	35	53	—	2.80	4.20	—	7.00	1.84	3.81	5.1	3.8	1879	A	YES	YES
3 units	20+20+20	20	20	20	2.27	2.27	2.27	6.80	1.75	3.88	5.6	4.0	1960	A+	YES	YES
	20+20+26	20	20	26	2.13	2.13	2.74	7.00	1.80	3.88	5.6	4.0	1960	A+	YES	YES
	20+20+35	20	20	35	2.13	2.13	3.65	7.90	2.03	3.90	5.6	4.0	1960	A+	YES	YES
	20+20+53	20	20	53	1.82	1.82	4.67	8.30	2.12	3.91	5.6	4.0	1960	A+	YES	YES
	20+26+26	20	26	26	2.21	2.84	2.84	7.90	2.03	3.90	5.6	4.0	1960	A+	YES	YES
	20+26+35	20	26	35	2.05	2.64	3.51	8.20	2.10	3.91	5.6	4.0	1960	A+	YES	YES
	20+26+53	20	26	53	1.71	2.20	4.39	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES
	20+35+35	20	35	35	1.87	3.21	3.21	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES
	<b>26+26+26</b>	<b>26</b>	<b>26</b>	<b>26</b>	<b>2.73</b>	<b>2.73</b>	<b>2.73</b>	<b>8.20</b>	<b>2.10</b>	<b>3.91</b>	<b>5.6</b>	<b>4.0</b>	<b>1960</b>	<b>A+</b>	<b>YES</b>	<b>YES</b>
	26+26+35	26	26	35	2.49	2.49	3.32	8.30	2.12	3.91	5.6	4.0	1960	A+	YES	YES
	26+35+35	26	35	35	2.26	3.02	3.02	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES
35+35+35	35	35	35	2.77	2.77	2.77	8.30	2.12	3.92	5.6	4.0	1960	A+	YES	YES	

