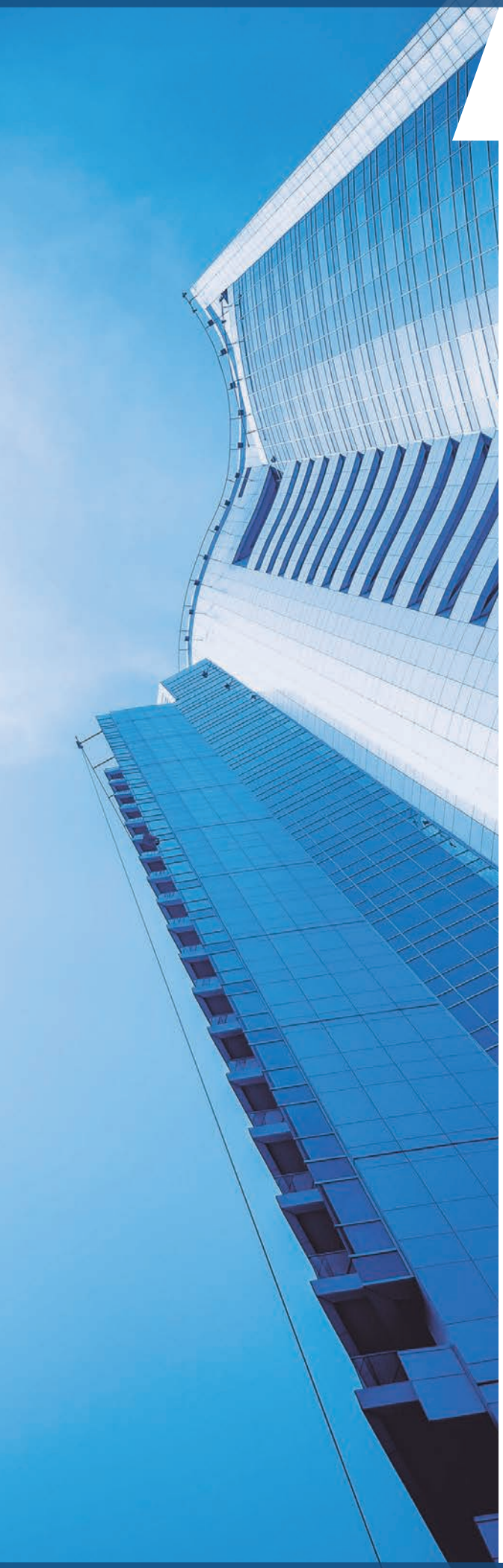
RESIDENTIAL AND COMMERCIAL R410A



THE PERFECT SYNTHESIS BETWEEN DESIGN, PERFORMANCE AND RESPECT FOR THE ENVIRONMENT

Hokkaido looks at the future with its line of air conditioners with functional, versatile aesthetics: **V-DESIGN DC INVERTER** models are for anyone who is looking for an innovative and attractive design, while **ACTIVE DC INVERTER** models combine tradition and technology to guarantee maximum comfort.

The range includes other types of indoor units such as **console**, **cassette**, **dutcable** and **floor/ceiling**.

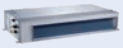
All models are designed with special attention to detail and with the full force of cutting-edge technology that greatly improves product performance.

RESIDENTIAL AND COMMERCIAL R410A

HOKKAIDO

RESIDENTIAL AND COMMERCIAL R410A - LINE UP

MONOSPLIT

kW	2.60	3.50	5.30	7.10	10.80	14.00	16.00
V-DESIGN DC INVERTER							
Wall 	HKEU XAL-(S)-1*	HKEU XAL-(S)-1*	HKEU XAL-(S)-1*				
ACTIVE LINE DC INVERTER							
Wall 	HKEU XAL-1*	HKEU XAL-1*	HKEU XAL-1*	HKEU XAL-1*			
COMMERCIAL							
Console 		HFIU ZAL*					
Compact Cassette NEW 		HTFU ZAL	HTFU ZAL				
Slim Cassette 84x84 NEW 				HTBI ZA	HTBI ZA	HTBI ZA	HTBI ZA
Ducted medium Head Pa NEW 		HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA	HUCI ZA
Floor/ceiling NEW 			HSFU ZAL	HSFI ZA1	HSFI ZA1	HSFI ZA1	HSFI ZA1

* Can also be installed in multisplit version.

MULTISPLIT

kW		4.15	5.20	6.10	8.00	8.20	11.05	12.30
No. connectable indoor units		2	2	3	3	4	4	5
		 HCKU 472 X2	 HCKU 531 X2	 HCKU 601 X3	 HCKU 761 X3	 HCKU 811 X4	 HCKU 1061 X4	 HCKU 1201 X5
	HKEU 262 XAL-(S)-1	●	●	●	●	●	●	●
	HKEU 352 XAL-(S)-1	●	●	●	●	●	●	●
	HKEU 532 XAL-(S)-1	●	●	●	●	●	●	●
	HKEU 263 XAL-1	●	●	●	●	●	●	●
	HKEU 353 XAL-1	●	●	●	●	●	●	●
	HKEU 533 XAL-1	●	●	●	●	●	●	●
	HKEU 713 XAL-1					●	●	●
	HFIU 350 ZAL	●	●	●	●	●	●	●

Performance and consumption are based on the following test conditions: Heating: O.T. 7° C DB, 6° C WB - I.T. 20° C DB. Cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO T1).

MONOSPLIT AND MULTISPLIT OUTDOOR UNITS

MONOSPLIT OUTDOOR UNITS

HCNI 260 XA-1
HCNI 263 XA

HCKI 351 XA-1
HCNI 352 XA
HCNI 353 XA
HCKI 530 XA-1
HCKI 531 XA-1
HCNI 533 XA

HCKI 711 XA-1
HCNI 713 XA

HCSI 1081 XA-1

HCSI 1401 XA-1
HCSI 1601 XA-1

MULTISPLIT OUTDOOR UNITS

HCKU 472 X2
HCKU 531 X2

HCKU 601 X3
HCKU 761 X3

HCKU 811 X4

HCKU 1061 X4
HCKU 1201 X5

ROBUST, EASY TO INSTALL, HIGH PERFORMANCE

Robustness and resistance

These outdoor units are even more robust and resistant thanks to their sophisticated design. The specially ribbed panels have rounded corners and reinforced sides. These details help distribute the vertical load over the structure, making the outdoor unit so robust that it can support the weight of 5 people!

Control unit housing: greater reliability

The electronic control units have a simplified structure that helps to facilitate maintenance by preventing the accumulation of dust and water.

Simple maintenance

The number of screws on the top panel and the air outlet grill has been virtually halved - 3 or 4 screws instead of 6 on previous models - so disassembly and maintenance are much quicker.

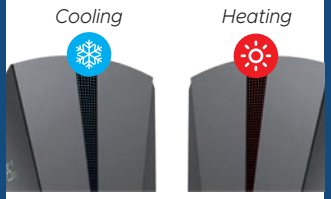
V-DESIGN DC INVERTER
Clean air, design, high performance

Turbo function

In both cooling and heating modes, Turbo function allows the user to quickly reach desired temperature to immediately cool or heat rooms.

High density filter

These remove dust and pollen by up to 80% and prolong the dust-proof effect.



Light effects

During operation, V-Design uses two colours to indicate which operating mode is set: blue for cooling, orange for heating.

delivery air angle on the previous model.

Storing air flow louvre position

When the V-Design is switched back on, this function allows the horizontal deflector to maintain the same angle tilt used and stored during the last machine use.

Auto-brightness

When the room light is off, the display goes dark slowly after 5s, the fan speed is reduced and the buzzer goes into silent mode. When the room is back to light, these functions resume automatically according to the previous settings.

Wi-Fi control

Conveniently control air conditioners via smartphone. KK-Wi-Fi is a simple, intuitive app that allows users to control air conditioning wherever you are. Available for iOS and Android.

Simplicity of installation

The condensate drain pipe is characterised by flexibility and the possibility of two applications (right and left). The new layout of the indoor unit mounting brackets makes wall application more secure.

Simplicity of maintenance

V DESIGN wall unit design facilitates all maintenance, disassembly and cleaning operations.

RESIDENTIAL AND COMMERCIAL R410A

V-DESIGN DC INVERTER

Wall HKEU 262-352-532 XAL-(S)-1

Wi-Fi (optional)

Black (standard)

Wi-Fi (optional)

Silver

Infrared remote control

Main features

Model available with 3 different power levels: 2.64~5.50 kW.

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

SEER/SCOP values 7.4/4.1 (2.64 kW).

Operating range in cooling and heating: -15~50° C; -20~30° C.

Extremely quiet: 20 dB(A) (2.64 kW); 21 dB(A) (3.52~5.50 kW).

Installation flexibility: up to 30 m splitting length and 20 m height difference between O.U. and I.U. (5.50 kW).

Indoor unit model			HKEU 262 XAL-(S)-1	HKEU 352 XAL-(S)-1	HKEU 532 XAL-(S)-1
Outdoor unit model			HCNI 260 XA-1	HCNI 352 XA	HCNI 533 XA
Type			DC-Inverter heat pump		
Control			Remote control		
Rated capacity (T=+35°C)		kW	2.64 (1.23~3.30)	3.52 (1.33~4.47)	5.50 (1.82~6.07)
Rated absorbed power (T=+35°C)		kW	0.71 (0.10~1.26)	1.07 (0.10~1.71)	1.70 (0.14~2.35)
Rated energy efficiency coefficient		EER[3]	3.71	3.29	3.23
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	7.4	6.9	6.6
Annual energy consumption		kWh/a	123	178	281
Theoretical load (Pdesignc)		kW	2.6	3.5	5.3
Rated capacity (T=+7°C)		kW	2.95 (0.85~3.72)	4.16 (1.04~4.88)	5.85 (1.38~6.68)
Rated absorbed power (T=+7°C)		kW	0.76 (0.13~1.32)	1.10 (0.16~1.73)	1.58 (0.20~2.41)
Rated energy performance coefficient		COP[3]	3.88	3.78	3.70
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.1	4.1	4.0
Annual energy consumption		kWh/a	785	922	1470
Theoretical load (Pdesignh)		kW	2.3	2.7	4.2
Operating limits (outside temp.)	Cooling	°C	-15~50		
	Heating	°C	-20~30		
Electrical data					
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz		
Power cable		Type	3 x 1.5 mm²	3 x 2.5 mm²	
Absorbed current (rated)	Cooling	A	3.1 (0.4~5.5)	4.8 (0.4~7.4)	7.1 (0.6~10.3)
	Heating	A	3.4 (0.5~5.7)	4.9 (0.7~7.5)	6.9 (0.9~10.5)
Maximum current		A	9.5	10	13
Maximum absorbed power		kW	2.1	2.2	3.1
Connection wires between I.U. and O.U.		no.	5 x 1.5 mm²	5 x 2.5 mm²	
Refrigerant circuit					
Refrigerant (GWP)[4]			R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		Kg	0.80	0.95	1.35
Tons of CO2 equivalent		t	1.670	1.983	2.818
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")
Max splitting length		m	25	25	30
Max height difference I.U./O.U.		m	10	10	20
Split length without additional charge		m	5	5	5
Additional load		g/m	15	15	15
Indoor unit specifications					
Dimensions	LxDxH	mm	897x182x312	897x182x312	1004x305x205
	Net weight	Kg	9.5	9.9	13.5
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	35/26/21/20	36/29/22/21	42.5/35/33/21
Sound power level (I.U.)	Hi	dB(A)	51	49	54
Handled air volume	Hi/Mi/Lo	m³/h	400/300/240	500/270/350	740/620/480
Motor power (Output)		W	20	20	30
Specifications of outdoor units					
Dimensions	LxDxH	mm	770x300x555	800x333x555	800x333x554
	Net weight	Kg	26.6	29.1	35.1
Sound pressure level (O.U.)		dB(A)	55.5	56	55
Sound power level (O.U.)		dB(A)	61	61	63
Handled air (Max)		m³/h	1900	2000	2200
Motor power (Output)		no. x W	40	40	40
Optional parts					
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 cooling fluid with a 2088 GWP. If 1 kg of this refrigerant was released into the atmosphere, then the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

ACTIVE LINE DC INVERTER
Comfort, well-being and air quality

Quiet

The tangential fan line has been designed to guarantee maximum comfort during moments of rest and relaxation.

Comfort care

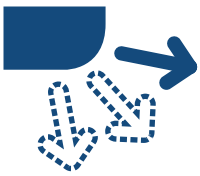
ACTIVE air conditioners are equipped with a device that automatically regulates the temperature and moisture in the room.

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.

Simplicity of installation

The condensate drain pipe is characterised by flexibility and the possibility of two applications (right and left). The new layout of the indoor unit mounting brackets makes wall application more secure.



Memory effect

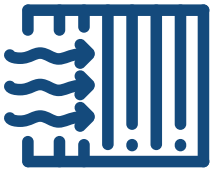
Upon unit re-start, this function allows the horizontal deflector to maintain the same angle tilt used and stored during the last machine use.

Temperature compensation

The temperature detected in the environment is corrected taking into account the stratification of the air.

Emergency mode

In the event of malfunction of the sensors in the indoor unit, the system works in emergency mode ensuring the air conditioning of the premises.



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.

ACTIVE LINE DC INVERTER

Wall HKEU 263-353-533-713 XAL-1

Wi-Fi (optional)

Infrared remote control

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

Main features

Wall model available with 4 different power levels: 2.59~7.14 kW.

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

SEER/SCOP values 6.7/4.1 (5.37 kW).

Extremely quiet: 22.5 dB (A) for the 2.59 kW model.

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

Follow Me function: temperature sensor integrated in the remote control.

Indoor unit model			HKEU 263 XAL-1	HKEU 353 XAL-1	HKEU 533 XAL-1	HKEU 713 XAL-1
Outdoor unit model			HCNI 263 XA	HCNI 353 XA	HCNI 533 XA	HCNI 713 XA
Type			DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)		kW	2.59 (1.02~3.22)	3.33 (1.08~4.10)	5.37 (1.81~6.12)	7.14 (2.67~7.88)
Rated absorbed power (T=+35°C)		kW	0.76 (0.10~1.24)	1.24 (0.10~1.58)	1.72 (0.14~2.36)	2.56 (0.24~3.03)
Rated energy efficiency coefficient		EER[3]	3.42	2.69	3.12	2.79
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.1	6.1	6.7	6.1
Annual energy consumption		kWh/a	143	189	277	402
Theoretical load (Pdesignc)		kW	2.5	3.3	5.3	7.0
Rated capacity (T=+7°C)		kW	2.98 (0.82~3.37)	3.74 (0.88~4.22)	5.52 (1.38~6.74)	7.97 (1.61~8.79)
Rated absorbed power (T=+7°C)		kW	0.79 (0.12~1.20)	1.26 (0.13~1.51)	1.67 (0.20~2.41)	2.78 (0.26~3.14)
Rated energy performance coefficient		COP[3]	3.76	2.96	3.30	2.86
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.1	4.0
Annual energy consumption		kWh/a	770	805	1400	1785
Theoretical load (Pdesignh)		kW	2.2	2.3	4.1	5.1
Operating limits (outside temp.)	Cooling	°C	-15~50			
	Heating	°C	-15~30			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1Ph - 220/240V - 50Hz			
Power cable		Type	3 x 2.5 mm²			3 x 4 mm²
Absorbed current (rated)	Cooling	A	0.4~5.4	0.4~6.9	0.6~10.3	1.0~13.2
	Heating	A	0.5~5.2	0.6~6.6	0.9~10.5	1.1~13.7
Maximum current		A	9.5	10	13	17
Maximum absorbed power		kW	2.1	2.2	3.1	3.7
Connection wires between I.U. and O.U.		no.	5 x 1.5 mm²			
Refrigerant circuit						
Refrigerant (GWP)[4]			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		Kg	0.8	0.8	1.4	1.85
Tons of CO2 equivalent		t	1.670	1.670	2.923	3.862
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	15	15	15	30
Indoor unit specifications						
Dimensions	LxDxH	mm	715x194x285	805x194x285	957x213x302	1040x220x327
	Net weight	Kg	7.3	7.8	10.5	12
Sound pressure level (I.U.)	Hi/Mi/Lo/ULo	dB(A)	40/34/29.5/22.5	41/36/28/23	42.5/37/33/23.5	45/39/34/25
Sound power level (I.U.)	Hi	dB(A)	53	53	55	59
Handled air volume	Hi/Mi/Lo	m³/h	420/320/270	570/470/370	840/680/540	980/800/640
Motor power (Output)		W	40	40	40	50
Specifications of outdoor units						
Dimensions	LxDxH	mm	770x300x555	770x300x555	800x333x554	845x363x702
	Net weight	Kg	26	26.3	35.1	49.9
Sound pressure level (O.U.)		dB(A)	55.5	56	55	60
Sound power level (O.U.)		dB(A)	61	61	63	65
Handled air (Max)		m³/h	1800	1800	2200	2700
Motor power (Output)		no. x W	40	40	40	50
Optional parts						
Wired remote control			NO			
Centralised control			NO			
Wi-Fi module			KK-WIFI KIT			

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RESIDENTIAL AND COMMERCIAL R410A

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 6.1/4.0.

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.

Split length: 25 m.

Maximum height difference between O.U. and I.U.: 10 m.

Indoor unit model			**HFIU 350 ZAL**
Outdoor unit model			**HCKI 351 XA-1**
Type			**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	1.21 (0.17~1.84)
Rated energy efficiency coefficient		EER[3]	2.91
Seasonal energy efficiency class		626/2011[1]	A++
Seasonal energy efficiency index		SEER[2]	6.1
Annual energy consumption		kWh/a	201
Theoretical load (Pdesignc)		kW	3.5
Rated capacity (T=+7°C)	Heating	kW	3.81 (0.46~4.34)
Rated absorbed power (T=+7°C)		kW	1.10 (0.15~1.47)
Rated energy performance coefficient		COP[3]	3.46
Energy efficiency class (intermediate climate season)		626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0
Annual energy consumption		kWh/a	1015
Theoretical load (Pdesignh)		kW	2.9
Operating limits (external temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
Electrical data			
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ
Power cable		Type	3 x 2.5 mm^2
Absorbed current (rated)	Cooling	A	5.5 (1.4~8.1)
	Heating	A	4.8 (1.2~6.5)
Maximum current		A	9
Maximum absorbed power		kW	1.90
Connection wires between I.U. and O.U.		no.	4
Refrigerant circuit			
Refrigerant (GWP)[4]			R410A (2088)
Quantity refrigerant pre-load		Kg	1.05
Tons of CO2 equivalent		t	2.192
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	15
Indoor unit specifications			
Dimensions	LxDxH	mm	700x600x210
	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^3/h	512/480/370
Motor power (Output)		W	67
Outside diameter of condensate drain		mm	ø16
Specifications of outdoor units			
Dimensions	LxDxH	mm	800x333x554
	Net weight	Kg	29.9
Sound pressure level (O.U.)		dB(A)	56
Sound power level (O.U.)		dB(A)	62
Handled air (Max)		m^3/h	2000
Motor power (Output)		W	1 x 63
Optional parts			
Wired remote control			YES
Manual centralized control	Requires NIM-GRH interface		YES
Wi-Fi centralized control			XRV Mobile BMS

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COMPACT CASSETTE 60x60

HTFU 350-530 ZAL

NEW

Infrared remote control

Main features

2 power levels: 3.52~5.28 kW.

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

SEER/SCOP values up to 6.1/4.0.

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.

Indoor unit model				HTFU 350 ZAL	HTFU 530 ZAL
Outdoor unit model				HCKI 351 XA-1	HCKI 531 XA-1
Type				FULL DC-Inverter heat pump	
Control				Remote control	
Rated capacity (T=+35°C)			kW	3.52 (0.62~4.40)	5.28 (0.79~6.15)
Rated absorbed power (T=+35°C)			kW	1.08 (0.21~1.69)	1.82 (0.27~2.27)
Rated energy efficiency coefficient			EER[3]	3.26	2.90
Seasonal energy efficiency class	Cooling		626/2011[1]	A++	A++
Seasonal energy efficiency index			SEER[2]	6.1	6.1
Annual energy consumption			kWh/a	201	298
Theoretical load (Pdesignc)			kW	3.5	5.2
Rated capacity (T=+7°C)			kW	4.10 (0.62~5.13)	5.42 (0.88~6.29)
Rated absorbed power (T=+7°C)			kW	1.06 (0.50~1.83)	1.42 (0.30~2.31)
Rated energy performance coefficient			COP[3]	3.87	3.82
Energy efficiency class (intermediate climate season)	Heating		626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0	4.0
Annual energy consumption			kWh/a	1190	1610
Theoretical load (Pdesignh)			kW	3.4	4.6
Operating limits (external temperature)	Cooling		°C	-15~50	-15~50
	Heating		°C	-15~24	-15~24
Electrical data					
Power	Outdoor unit		Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ
Power cable			Type	3 x 2.5 mm^2	3 x 4.0 mm^2
Absorbed current (rated)	Cooling		A	4.8 (1.0~7.7)	8.1 (1.2~10.9)
	Heating		A	4.7 (2.3~8.4)	6.3 (1.4~10.5)
Maximum current			A	9	13.5
Maximum absorbed power			kW	1.90	2.95
Connection wires between I.U. and O.U.			no.	4	4
Refrigerant circuit					
Refrigerant (GWP)[4]				R410A (2088)	
Quantity refrigerant pre-load			Kg	1.05	1.35
Tons of CO2 equivalent			t	2.192	2.819
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	15	15
Indoor unit specifications					
Dimensions	LxDxH		mm	570x570x260	570x570x260
	Net weight		Kg	16.5	16.2
Sound pressure level (I.U.)	Hi/Mi/Lo		dB(A)	43/39/35	43/39/36
Sound power level (I.U.)	Hi		dB(A)	58	57
Handled air volume	Hi/Mi/Lo		m^3/h	617/504/416	720/625/540
Motor power (Output)			W	45	45
Outside diameter of condensate drain			mm	ø25	ø25
Specifications of outdoor units					
Dimensions	LxDxH		mm	800x333x554	800x333x554
	Net weight		Kg	29.9	34.5
Sound pressure level (O.U.)			dB(A)	56	55.5
Sound power level (O.U.)			dB(A)	62	64
Handled air (Max)			m^3/h	2000	2000
Motor power (Output)			no. x W	1 x 63	1 x 34
Accessories					
Decorative panel				TFP 200 ZA	
Dimensions	LxDxH		mm	647x647x50	
	Net weight		Kg	2.5	
Optional parts					
Wired remote control				YES	
Manual centralized control				YES	
Wi-Fi centralized control				XRV Mobile BMS	

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RESIDENTIAL AND COMMERCIAL R410A

SLIM CASSETTE 84x84

HTBI 710-1080-1400-1600 ZA

NEW

Infrared remote control

Main features

4 power levels: 7.03~15.53 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (7.03~10.55 kW); A+/A+ (14.07~15.53 kW).

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

Pre-set for external air intake.

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 1600 ZA
Outdoor unit model			HCKI 711 XA-1	HCSI 1081 XA-1	HCSI 1401 XA-1	HCSI 1601 XA-1
Type			FULL DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)	Cooling	kW	7.03 (1.20~8.21)	10.55 (2.93~12.02)	14.07 (3.99~16.12)	15.53 (4.98~18.46)
Rated absorbed power (T=+35°C)	Cooling	kW	2.17 (0.40~3.16)	4.06 (0.98~4.62)	5.39 (1.33~6.20)	6.40 (1.66~7.10)
Rated energy efficiency coefficient	Cooling	EER[3]	3.24	2.60	2.61	2.43
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A+	A+
Seasonal energy efficiency index	Cooling	SEER[2]	6.1	6.1	5.6	5.6
Annual energy consumption	Cooling	kWh/a	402	602	875	950
Theoretical load (Pdesignc)	Cooling	kW	7.0	10.5	14.0	15.2
Rated capacity (T=+7°C)	Heating	kW	7.62 (1.20~8.65)	11.13 (2.64~13.19)	16.12 (4.19~17.59)	18.17 (5.28~20.51)
Rated absorbed power (T=+7°C)	Heating	kW	2.05 (0.40~3.09)	3.09 (0.88~4.69)	5.36 (1.40~6.77)	5.74 (1.76~7.32)
Rated energy performance coefficient	Heating	COP[3]	3.72	3.60	3.01	3.17
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)	Heating	SCOP[2]	4.0	4.0	4.0	4.0
Annual energy consumption	Heating	kWh/a	1820	3535	4025	4025
Theoretical load (Pdesignh)	Heating	kW	5.2	10.1	11.5	11.5
Operating limits (external temperature)	Cooling	°C	-15~50			
	Heating	°C	-15~24			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1~220~240V-50HZ	3~380~415V-50HZ	3~380~415V-50HZ	3~380~415V-50HZ
Power cable		Type	3 x 4 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	9.9 (1.8~14.4)	7.0 (1.7~8.0)	9.3 (2.3~10.7)	11.0 (2.9~12.3)
	Heating	A	8.9 (1.8~14.1)	5.3 (1.5~8.1)	9.2 (2.1~11.7)	9.9 (3.0~12.6)
Maximum current		A	14.4	10	13	14
Maximum absorbed power		kW	2.95	5.30	6.10	7.50
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)			
Refrigerant circuit						
Refrigerant (GWP)[4]			R410A (2088)			
Quantity refrigerant pre-load		Kg	1.95	3.2	4.00	4.3
Tons of CO2 equivalent		t	4.072	6.682	8.352	8.978
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")			
Max. splitting length		m	50	65	65	65
Max height difference I.U./O.U.		m	25	30	30	30
Splitting length without additional load		m	5	5	5	5
Additional load		g/m	30	30	30	30
Indoor unit specifications						
Dimensions	LxDxH	mm	840x840x245	840x840x245	840x840x287	840x840x287
	Net weight	Kg	23	27.5	29	29.7
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	47/43/40	52/49/46	52/50/49	53/50.5/48
Sound power level (I.U.)	Hi	dB(A)	61	62	64	68
Handled air volume	Hi/Mi/Lo	m³/h	1378/1200/1032	1775/1620/1438	1715/1568/1381	1970/1737/1537
Motor power (Output)		W	141	141	141	232
Outside diameter of condensate drain		mm	ø32	ø32	ø32	ø32
Specifications of outdoor units						
Dimensions	LxDxH	mm	845x363x702	946x410x810	952x410x1333	952x410x1333
	Net weight	Kg	49	78.9	108.1	112.8
Sound pressure level (O.U.)		dB(A)	60.5	62	65	62.5
Sound power level (O.U.)		dB(A)	65	69	73	75
Handled air (Max)		m³/h	2700	4300	6800	7200
Motor power (Output)		no. x W	1 x 115	1 x 150	2 x 126	2 x 126
Accessories						
Decorative panel			TBP 710 ZA			
Dimensions	LxDxH	mm	950x950x55			
	Net weight	Kg	5			
Optional parts						
Wired remote control			YES			
Manual centralized control			YES			
Wi-Fi centralized control			XRV Mobile BMS			

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DUCTED WITH MEDIUM HEAD

HUCU 350-530 ZAL

NEW

Infrared remote control

Main features

2 available power levels: 3.52~5.28 kW.

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

SEER/SCOP values 6.1/4.0 (5.28 kW).

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

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			HUCU 350 ZAL	HUCU 530 ZAL
Outdoor unit model			HCKI 351 XA-1	HCKI 531 XA-1
Type			FULL DC-Inverter heat pump	
Control			Remote control	
Rated capacity (T=+35°C)	Cooling	kW	3.52 (0.53~3.75)	5.28 (1.23~6.15)
Rated absorbed power (T=+35°C)		kW	1.30 (0.16~2.10)	1.64 (0.26~2.12)
Rated energy efficiency coefficient		EER[3]	2.71	3.22
Seasonal energy efficiency class		626/2011[1]	A+	A++
Seasonal energy efficiency index		SEER[2]	5.6	6.1
Annual energy consumption		kWh/a	219	304
Theoretical load (Pdesignc)		kW	3.5	5.3
Rated capacity (T=+7°C)	Heating	kW	3.81 (1.00~4.00)	5.86 (1.80~7.03)
Rated absorbed power (T=+7°C)		kW	1.20 (0.30~2.10)	1.58 (0.31~2.15)
Rated energy performance coefficient		COP[3]	3.18	3.71
Energy efficiency class (intermediate climate season)		626/2011[1]	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0
Annual energy consumption		kWh/a	910	1505
Theoretical load (Pdesignh)		kW	2.6	4.3
Operating limits (external temperature)	Cooling	°C	-15~50	
	Heating	°C	-15~24	
Electrical data				
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	
Power cable		Type	3 x 2.5 mm^2	3 x 4 mm^2
Absorbed current (rated)	Cooling	A	5.7 (1.3~10.0)	7.2 (1.1~9.2)
	Heating	A	5.5 (1.5~10.0)	7.0 (1.3~9.3)
Maximum current		A	10	13.5
Maximum absorbed power		kW	1.90	2.95
Connection wires between I.U. and O.U.		no.	4	4
Refrigerant circuit				
Refrigerant (GWP)[4]			R410A (2088)	
Quantity refrigerant pre-load		Kg	1.05	1.35
Tons of CO2 equivalent		t	2.192	2.819
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	15	15
Indoor unit specifications				
Dimensions	LxDxH	mm	700x450x200	880x674x210
	Net weight	Kg	18	24.3
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	40/34.5/27.5	42/38/33
Sound power level (I.U.)	Hi	dB(A)	59	60
Handled air volume	Hi/Mi/Lo	m^3/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
Specifications of outdoor units				
Dimensions	LxDxH	mm	800x333x554	800x333x554
	Net weight	Kg	29.9	34.5
Sound pressure level (O.U.)		dB(A)	56	55.5
Sound power level (O.U.)		dB(A)	62	64
Handled air (Max)		m^3/h	2000	2000
Motor power (Output)		no. x W	1 x 63	1 x 34
Optional parts				
Wired remote control			YES	
Manual centralized control			YES	
Wi-Fi centralized control			XRV Mobile BMS	

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DUCTED WITH MEDIUM HEAD

HUCI 710-1080-1400-1600 ZA

NEW

Infrared remote control

Main features

4 power levels: single-phase 7.03 kW; three-phase 10.55 ~ 15.20 kW.

Seasonal energy efficiency class in cooling/heating mode: A++/A+ (7.03~10.55 kW); A+/A+ (14.07~15.20 kW).

SEER/SCOP values up to 6.1/4.0.

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

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 1600 ZA
Outdoor unit model			HCKI 711 XA-1	HCSI 1081 XA-1	HCSI 1401 XA-1	HCSI 1601 XA-1
Type			FULL DC-Inverter heat pump			
Control			Remote control			
Rated capacity (T=+35°C)		kW	7.03 (1.99~8.21)	10.55 (2.40~12.01)	14.07 (3.10~16.40)	15.20 (3.40~18.20)
Rated absorbed power (T=+35°C)		kW	2.18 (0.45~2.80)	4.06 (0.66~4.38)	5.03 (0.88~6.00)	6.30 (1.10~7.10)
Rated energy efficiency coefficient		EER[3]	3.23	2.60	2.80	2.41
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A+	A+
Seasonal energy efficiency index		SEER[2]	6.1	6.1	5.9	5.6
Annual energy consumption		kWh/a	402	591	813	956
Theoretical load (Pdesignc)		kW	7.0	10.3	13.7	15.3
Rated capacity (T=+7°C)		kW	7.62 (2.40~8.65)	11.14 (2.78~13.2)	16.12 (3.50~18.20)	18.17 (4.20~20.50)
Rated absorbed power (T=+7°C)		kW	2.05 (0.48~2.85)	3.09 (0.65~4.40)	4.35 (0.92~5.90)	5.03 (1.15~7.20)
Rated energy performance coefficient		COP[3]	3.72	3.61	3.71	3.61
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	2030	3675	4025	4235
Theoretical load (Pdesignh)		kW	5.8	10.5	11.5	12.1
Operating limits (external temperature)	Cooling	°C	-15~50			
	Heating	°C	-15~24			
Electrical data						
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ	3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	10.0 (2.0~12.2)	7.5 (1.2~8.0)	8.7 (1.6~10.9)	10.9 (2.0~12.9)
	Heating	A	8.9 (2.1~12.4)	5.7 (1.2~8.0)	7.5 (1.7~10.7)	8.7 (2.1~13.1)
Maximum current		A	14	10	13	14
Maximum absorbed power		kW	2.95	5.30	6.10	7.50
Connection wires between I.U. and O.U.		no.	5 (2 of which shielded)			
Refrigerant circuit						
Refrigerant (GWP)[4]			R410A (2088)			
Quantity refrigerant pre-load		Kg	1.95	3.2	4.00	4.3
Tons of CO2 equivalent		t	4.072	6.682	8.352	8.978
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø9.52(3/8") - ø15.88(5/8")			
Max. splitting length		m	50	65	65	65
Max height difference I.U./O.U.		m	25	30	30	30
Splitting length without additional load		m	5	5	5	5
Additional load		g/m	30	30	30	30
Indoor unit specifications						
Dimensions	LxDxH	mm	1100x774x249	1360x774x249	1200x874x300	1200x874x300
	Net weight	Kg	31.5	40.5	47.6	47.6
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	44/42/40	47/43/40	50.5/49.5/48	54/52/50.5
Sound power level (I.U.)	Hi	dB(A)	64	63	70	74
Handled air volume	Hi/Mi/Lo	m³/h	1248/1054/839	1400/1150/750	2400/2040/1680	2600/2210/1820
Fan pressure head	Std/Max	Pa	25/160	37/160	50/160	50/160
Motor power (Output)		W	90	250	560	560
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25
Specifications of outdoor units						
Dimensions	LxDxH	mm	845x363x702	946x410x810	952x410x1333	952x410x1333
	Net weight	Kg	49	78.9	108.1	112.8
Sound pressure level (O.U.)		dB(A)	60.5	62	65	62.5
Sound power level (O.U.)		dB(A)	65	69	73	75
Handled air (Max)		m³/h	2700	4300	6800	7200
Motor power (Output)		no. x W	1 x 115	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			

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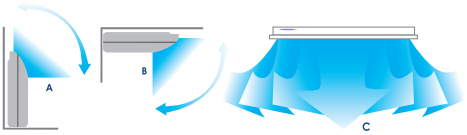
RESIDENTIAL AND COMMERCIAL R410A

FLOOR/CEILING

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

NEW

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

5 power sizes: single phase 5.28 ~ 7.03 kW; three-phase 10.55 ~ 15.82 kW.

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

SEER/SCOP values up to 6.1/4.0.

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	HSFI 710 ZA1	HSFI 1080 ZA1	HSFI 1400 ZA1	HSFI 1600 ZA1
Outdoor unit model			HCKI 531 XA-1	HCKI 711 XA-1	HCSI 1081 XA-1	HCSI 1401 XA-1	HCSI 1601 XA-1
Type			FULL DC-Inverter heat pump				
Control			Remote control				
Rated capacity (T=+35°C)		kW	5.28 (2.86~5.61)	7.03 (1.20~8.21)	10.55 (2.93~12.02)	14.07 (4.10~16.41)	15.82 (4.98~18.11)
Rated absorbed power (T=+35°C)		kW	1.63 (0.61~1.80)	2.29 (0.40~3.16)	4.06 (0.98~4.62)	5.19 (1.37~6.31)	6.06 (1.66-6.97)
Rated energy efficiency coefficient		EER[3]	3.24	3.07	2.60	2.71	2.61
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++	A++
Seasonal energy efficiency index		SEER[2]	6.1	6.1	6.1	6.1	6.1
Annual energy consumption		kWh/a	304	402	602	803	918
Theoretical load (Pdesignc)		kW	5.3	7.0	10.5	14.0	16.0
Rated capacity (T=+7°C)		kW	5.57 (2.40~5.83)	7.62 (1.20~8.65)	11.13 (2.64~13.19)	16.12 (4.40~18.46)	18.17 (5.28~20.51)
Rated absorbed power (T=+7°C)		kW	1.50 (0.51~1.53)	2.05 (0.40~3.09)	2.99 (0.88~4.69)	4.73 (1.47~6.59)	5.65 (1.76~7.32)
Rated energy performance coefficient		COP[3]	3.71	3.72	3.72	3.41	3.22
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A+	A+	A+	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0	4.0	4.0	4.0	4.0
Annual energy consumption		kWh/a	1540	1855	3605	4130	4200
Theoretical load (Pdesignh)		kW	4.4	5.3	10.3	11.8	12.0
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
Electrical data							
Power	Outdoor unit	Ph-V-Hz	1-220~240V-50HZ		3-380~415V-50HZ		
Power cable		Type	3 x 4 mm²	3 x 4 mm²	5 x 2.5 mm²	5 x 2.5 mm²	5 x 4 mm²
Absorbed current (rated)	Cooling	A	7.3 (2.8~7.9)	10.4 (1.8~14.4)	7.0 (1.7~8.0)	9.0 (2.4~10.9)	10.5 (2.9~12.0)
	Heating	A	6.6 (2.4~6.8)	8.9 (1.8~14.1)	5.2 (1.5~8.1)	8.2 (2.5~11.4)	9.7 (3.0~12.6)
Maximum current		A	13.5	14.4	10	13	14
Maximum absorbed power		kW	2.95	3.16	5.30	6.59	7.50
Connection wires between I.U. and O.U.		no.	4	5 (2 of which shielded)			
Refrigerant circuit							
Refrigerant (GWP)[4]			R410A (2088)				
Quantity refrigerant pre-load		Kg	1.35	1.95	3.2	4.00	4.3
Tons of CO2 equivalent		t	2.819	4.072	6.682	8.352	8.978
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	65	65	65
Max height difference I.U./O.U.		m	20	25	30	30	30
Splitting length without additional load		m	5	5	5	5	5
Additional load		g/m	15	30	30	30	30
Indoor unit specifications							
Dimensions	LxDxH	mm	1068x675x235	1068x675x235	1650x675x235	1650x675x235	1650x675x235
	Net weight	Kg	28	26.8	39	41.2	41.4
Sound pressure level (I.U.)	Hi/Mi/Lo	dB(A)	42/38.5/34.5	50/46/41	51/47/42	54/50/46	54/47/42
Sound power level (I.U.)	Hi	dB(A)	55	63	63	67	71
Handled air volume	Hi/Mi/Lo	m³/h	880/760/650	1208/1066/853	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 90
Outside diameter of condensate drain		mm	ø25	ø25	ø25	ø25	ø25
Specifications of outdoor units							
Dimensions	LxDxH	mm	800x333x554	845x363x702	946x410x810	952x410x1333	952x410x1333
	Net weight	Kg	34.5	49	78.9	108.1	112.8
Sound pressure level (O.U.)		dB(A)	55.5	60.5	62	65	62.5
Sound power level (O.U.)		dB(A)	64	65	69	73	75
Handled air (Max)		m³/h	2000	2700	4300	6800	7200
Motor power (Output)		no. x W	1 x 34	1 x 115	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 cooling fluid with a 2088 GWP. If 1 kg of this refrigerant was released into the atmosphere, then the impact on global warming would be 2088 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. If necessary, always contact qualified personnel.

TWIN COMBINATIONS

Indoor unit model				**2 x HTBI 710 ZA**
Outdoor unit model				**HCSI 1401 XA-1**
Type				**FULL DC-Inverter heat pump**
Control				Remote control
Rated capacity (T=+35°C)	Cooling		kW	14.07 (3.99~16.12)
Rated absorbed power (T=+35°C)			kW	5.39 (1.33~6.20)
Rated energy efficiency coefficient			EER[3]	2.61
Seasonal energy efficiency class			626/2011[1]	A+
Seasonal energy efficiency index			SEER[2]	5.6
Annual energy consumption			kWh/a	875
Theoretical load (Pdesignc)			kW	14.0
Rated capacity (T=+7°C)	Heating		kW	16.12 (4.19~17.58)
Rated absorbed power (T=+7°C)			kW	5.36 (1.40~6.77)
Rated energy performance coefficient			COP[3]	3.00
Energy efficiency class (intermediate climate season)			626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0
Annual energy consumption			kWh/a	4025
Theoretical load (Pdesignh)			kW	11.5
Operating limits (external temperature)	Cooling		°C	-15~50
	Heating		°C	-15~24
Electrical data				
Power	Indoor unit		Ph-V-Hz	1-220~240V-50HZ
	Outdoor unit			3-380~415V-50HZ
Power cable			Type	5 x 2.5 mm^2
Absorbed current (rated)	Cooling		A	9.3 (2.3~10.7)
	Heating		A	9.2 (2.1~11.7)
Maximum current			A	13
Maximum absorbed power			kW	6.77
Connection wires between each I.U. and O.U.			no.	5 (2 of which shielded)
Refrigerant circuit				
Refrigerant (GWP)[4]				R410A (2088)
Quantity refrigerant pre-load			Kg	4.0
Tons of CO2 equivalent			t	8.352
Diameter of refrigerant piping on liquid/gas	Indoor unit		mm (inches)	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length			m	65
Max height difference I.U./O.U.			m	30
Splitting length without additional load			m	5
Additional load			g/m	30

Indoor unit model				**2 x HUCI 710 ZA**
Outdoor unit model				**HCSI 1401 XA-1**
Type				**FULL DC-Inverter heat pump**
Control				Remote control
Rated capacity (T=+35°C)	Cooling		kW	13.72 (3.08~16.41)
Rated absorbed power (T=+35°C)			kW	5.03 (0.88~6.00)
Rated energy efficiency coefficient			EER[3]	2.73
Seasonal energy efficiency class			626/2011[1]	A+
Seasonal energy efficiency index			SEER[2]	5.9
Annual energy consumption			kWh/a	813
Theoretical load (Pdesignc)			kW	13.7
Rated capacity (T=+7°C)	Heating		kW	16.12 (3.52~18.17)
Rated absorbed power (T=+7°C)			kW	4.35 (0.92~5.90)
Rated energy performance coefficient			COP[3]	3.71
Energy efficiency class (intermediate climate season)			626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)			SCOP[2]	4.0
Annual energy consumption			kWh/a	4025
Theoretical load (Pdesignh)			kW	11.5
Operating limits (external temperature)	Cooling		°C	-15~50
	Heating		°C	-15~24
Electrical data				
Power	Indoor unit		Ph-V-Hz	1-220~240V-50HZ
	Outdoor unit			3-380~415V-50HZ
Power cable			Type	5 x 2.5 mm^2
Absorbed current (rated)	Cooling		A	8.7 (1.6~10.9)
	Heating		A	7.5 (1.7~10.7)
Maximum current			A	13
Maximum absorbed power			kW	6.10
Connection wires between each I.U. and O.U.			no.	5 (2 of which shielded)
Refrigerant circuit				
Refrigerant (GWP)[4]				R410A (2088)
Quantity refrigerant pre-load			Kg	4.0
Tons of CO2 equivalent			t	8.352
Diameter of refrigerant piping on liquid/gas	Indoor unit		mm (inches)	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit			
Max. splitting length			m	65
Max height difference I.U./O.U.			m	30
Splitting length without additional load			m	5
Additional load			g/m	30

TWIN COMBINATIONS

Indoor unit model			**HSFI 710 ZA1**
Outdoor unit model			**HCSI 1401 XA-1**
Type			**FULL DC-Inverter heat pump**
Control			Remote control
Rated capacity (T=+35°C)	Cooling	kW	14.07 (4.10~16.41)
Rated absorbed power (T=+35°C)		kW	5.19 (1.37~6.31)
Rated energy efficiency coefficient		EER[3]	2.71
Seasonal energy efficiency class		626/2011[1]	A++
Seasonal energy efficiency index		SEER[2]	6.1
Annual energy consumption		kWh/a	803
Theoretical load (Pdesignc)		kW	14.0
Rated capacity (T=+7°C)	Heating	kW	16.12 (4.40~18.46)
Rated absorbed power (T=+7°C)		kW	4.73 (1.47~6.59)
Rated energy performance coefficient		COP[3]	3.41
Energy efficiency class (intermediate climate season)		626/2011[1]	A+
Seasonal energy efficiency index (intermediate climate season)		SCOP[2]	4.0
Annual energy consumption		kWh/a	4130
Theoretical load (Pdesignh)		kW	11.8
Operating limits (external temperature)	Cooling	°C	-15~50
	Heating	°C	-15~24
Electrical data			
Power	Indoor unit	Ph-V-Hz	1-220~240V-50HZ
	Outdoor unit		3-380~415V-50HZ
Power cable		Type	5 x 2.5 mm^2
Absorbed current (rated)	Cooling	A	9.0 (2.4~10.9)
	Heating	A	8.2 (2.5~11.4)
Maximum current		A	13
Maximum absorbed power		kW	6.59
Connection wires between each I.U. and O.U.		no.	5 (2 of which shielded)
Refrigerant circuit			
Refrigerant (GWP)[4]			R410A (2088)
Quantity refrigerant pre-load		Kg	4.0
Tons of CO2 equivalent		t	8.352
Diameter of refrigerant piping on liquid/gas	Indoor unit	mm (inches)	ø9.52(3/8") - ø15.88(5/8")
	Outdoor unit		
Max. splitting length		m	65
Max height difference I.U./O.U.		m	30
Splitting length without additional load		m	5
Additional load		g/m	30

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 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 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.

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

MULTISPLIT OUTDOOR UNITS

HCKU 472 X2
HCKU 531 X2

HCKU 601 X3
HCKU 761 X3

HCKU 811 X4

HCKU 1061 X4
HCKU 1201 X5

Main features

7 available power levels: from 4.15 to 12.30 kW.

Seasonal energy efficiency class in cooling / heating up to A++/A+ (4,15, 8.00 and 8.20 kW).

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

All outdoor unit compressors are equipped with Sine Wave Inverter Technology 180°, the function that significantly reduces noise levels and considerably increases energy efficiency at low frequencies.

Model			HCKU 472 X2	HCKU 531 X2	HCKU 601 X3	HCKU 761 X3	HCKU 811 X4	HCKU 1061 X4	HCKU 1201 X5
Type			Outdoor DC-Inverter heat pump unit						
Connectable indoor units (min - max)		no.	1 - 2	1 - 2	2 - 3	2 - 3	2 - 4	2 - 4	2 - 5
Rated capacity (T=+35°C)	Cooling	kW	4.15 (1.76~4.54)	5.20 (2.08~6.29)	6.10 (2.44~7.32)	8.00 (2.77~8.69)	8.20 (3.04~9.93)	11.05 (3.71~13.78)	12.30 (4.18~14.00)
Rated absorbed power (T=+35°C)	Cooling	kW	1.28 (0.42~1.43)	1.79 (0.59~2.16)	1.89 (0.68~2.38)	2.48 (0.76~2.93)	2.47 (0.84~3.09)	3.42 (0.89~4.29)	3.73 (1.01~4.55)
Rated energy efficiency coefficient	Cooling	EER[3]	3.24	2.91	3.23	3.23	3.32	3.23	3.30
Seasonal energy efficiency class	Cooling	626/2011[1]	A++	A++	A++	A++	A++	A++	A++
Seasonal energy efficiency index	Cooling	SEER[2]	6.8	6.2	6.3	6.6	6.8	7.1	7.6
Annual energy consumption	Cooling	kWh/a	206	282	339	403	401	523	566
Theoretical load (Pdesignc)	Cooling	kW	4.0	5.0	6.1	7.6	7.8	10.6	12.3
Rated capacity (T=+7°C)	Heating	kW	4.40 (1.89~4.87)	5.50 (2.20~6.66)	6.60 (2.64~7.92)	8.60 (2.87~9.02)	8.80 (3.26~10.65)	11.30 (3.89~13.32)	12.50 (4.18~14.94)
Rated absorbed power (T=+7°C)	Heating	kW	1.17 (0.39~1.33)	1.48 (0.50~1.85)	1.78 (0.64~2.22)	2.32 (0.70~2.70)	2.34 (0.83~3.05)	3.045 (0.83~3.98)	3.37 (0.91~4.21)
Rated energy performance coefficient	Heating	COP[3]	3.76	3.72	3.71	3.71	3.76	3.72	3.71
Energy efficiency class (intermediate climate season)	Heating	626/2011[1]	A+	A	A	A+	A+	A	A
Seasonal energy efficiency index (intermediate climate season)	Heating	SCOP[2]	4.0	3.8	3.8	4.0	4.0	3.8	3.8
Annual energy consumption	Heating	kWh/a	1295	1695	2034	1995	2415	3426	3537
Theoretical load (Pdesignh)	Heating	kW	3.7	4.6	5.5	5.7	6.9	9.3	9.6
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		Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ	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^2	3 x 2.5 mm^2	3 x 4 mm^2	3 x 4 mm^2	3 x 4 mm^2	3 x 6 mm^2	3 x 6 mm^2
Rated absorbed current	Cooling	A	5.9 (3.0~5.9)	7.6 (2.8~7.0)	8.3 (4.4~7.7)	10.7 (3.3~10.2)	9.9 (5.8~12.1)	16.9 (5.4~15.3)	16.6 (3.0~16.0)
	Heating	A	5.2 (2.7~5.6)	6.7 (2.3~6.9)	7.8 (3.5~7.1)	9.8 (3.2~9.5)	10.6 (7.2~15.3)	13.0 (5.9~14.6)	14.7 (3.0~15.8)
Maximum current		A	11	12	15	16	17	21.5	22
Maximum absorbed power		kW	2.65	2.3	2.8	3.3	3.5	4.6	4.7
Connection wires between each I.U. and O.U.		no.	4	4	4	4	4	4	4
Refrigerant circuit									
Refrigerant (GWP)[4]			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Quantity refrigerant pre-load		Kg	1.25	1.7	2.1	2.1	2.4	3.0	3.6
Tons of CO2 equivalent		t	2.610	3.550	4.385	4.385	5.011	6.264	7.517
Diameter of refrigerant piping on liquid/gas		mm (inches)	2 x ø6.35(1/4") 2 x ø9.52(3/8")	2 x ø6.35(1/4") 2 x ø9.52(3/8")	3 x ø6.35(1/4") 3 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")	4 x ø6.35(1/4") 3 x ø9.52(3/8") + 1 x ø12.74(1/2")	5 x ø6.35(1/4") 4 x ø9.52(3/8") + 1 x ø12.74(1/2")
Total splitting length		m	40	40	60	60	80	80	80
Max length of a single refrigeration line		m	25	25	30	30	35	35	35
Max height difference I.U./O.U.		m	15	15	15	15	15	15	15
Max height difference between I.U.		m	10	10	10	10	10	10	10
Splitting length without additional load		m	15	15	22.5	22.5	30	30	37.5
Additional load		g/m	15	15	15	15	15	15	15
Product specifications									
Dimensions	LxDxH	mm	800x333x554	800x333x554	845x363x702	845x363x702	946x410x810	946x410x810	946x410x810
	Net weight	Kg	31.5	36.0	47.0	52.7	67.6	70.0	76.0
Sound pressure level		dB(A)	54	56.5	57.5	59.5	60	63.5	62
Sound power level		dB(A)	64	65	65	69	67	69	69
Handled air (Max)		m^3/h	2100	2100	2700	3500	3800	5500	5500
Motor power (Input)		W	40	40	50	50	120	120	120

Energy efficiency values refer to the following combinations: HCKU 472 X2 + 2xHKEU 262 XAL -- HCKU 531 X2 + 2xHKEU 262 XAL -- HCKU 601 X3 + 3xHKEU 262 XAL -- HCKU 761 X3 + 3xHKEU 262 XAL -- HCKU 811 X4 + 4xHKEU 262 XAL -- HCKU 1061 X4 + 4xHKEU 262 XAL -- HCKU 1201 X5 + 5xHKEU 262 XAL.

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 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 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.

V-DESIGN DC INVERTER MULTISPLIT INTERNAL UNITS

Wall HKEU 262-352-532 XAL-(S)-1

Wi-Fi (optional)

Infrared remote control

Model			HKEU 262 XAL-(S)-1	HKEU 352 XAL-(S)-1	HKEU 532 XAL-(S)-1
Type			Indoor wall unit		
Control			Remote control		
Rated heating	Cooling	kW	2.64	3.52	5.28
	Heating	kW	2.93	3.81	5.57
Electrical data					
Power		Ph-V-Hz	-	-	-
Connection wires between I.U. and O.U.		no.	4	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")	ø6.35(1/4") - ø12.74(1/2")
Product specifications					
Dimensions	LxDxH	mm	897x182x312	897x182x312	1004x205x350
	Net weight	Kg	9.5	9.9	13
Sound pressure level	Hi/Mi/Lo/ULo	dB(A)	35/26/21	36/29/22	39/33/28
Sound power level	Hi	dB(A)	51	49	56
Treated air (High / Med. / Low)		m^3/h	400/300/240	500/350/270	740/620/480
Motor power (Output)		W	16	16	16
Optional parts					
Wi-Fi module			KK-WIFI KIT		
Wired remote control			NO		
Centralised control			NO		

ACTIVE LINE DC INVERTER MULTISPLIT INTERNAL UNITS

Wall HKEU 263-353-533-713 XAL-1

Wi-Fi (optional)

Infrared remote control

Model			HKEU 263 XAL-1	HKEU 353 XAL-1	HKEU 533 XAL-1	HKEU 713 XAL-1
Type			Indoor wall unit			
Control			Remote control			
Rated heating	Cooling	kW	2.59	3.33	5.37	7.14
	Heating	kW	2.98	3.74	5.52	7.97
Electrical data						
Power		Ph-V-Hz	-	-	-	-
Connection wires between I.U. and O.U.		no.	4	4	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")	ø6.35(1/4") - ø12.74(1/2")	ø9.52(3/8") - ø15.88(5/8")
Product specifications						
Dimensions	LxDxH	mm	715x194x285	805x194x285	957x213x302	1040x220x327
	Net weight	Kg	7.3	7.8	10.5	12
Sound pressure level	Hi/Mi/Lo/ULo	dB(A)	40/34/29.5/22.5	41/36/28/23	42.5/37/33/23.5	45/39/34/25
Sound power level	Hi	dB(A)	53	53	55	59
Treated air (High / Med. / Low)		m^3/h	420/320/270	570/470/370	840/680/540	980/800/640
Motor power (Output)		W	16	16	16	16
Optional parts						
Wi-Fi module			KK-WIFI KIT			
Wired remote control			NO			
Centralised control			NO			

MULTISPLIT INTERNAL UNITS

Console HFIU 350 ZAL

Infrared remote control

Model			HFIU 350 ZAL
Type			**Internal console unit**
Control			Remote control
Rated heating	Cooling	kW	3.49
	Heating	kW	3.78
Electrical data			
Power		Ph-V-Hz	-
Connection wires between I.U. and O.U.		no.	4
Refrigerant circuit			
Diameter of refrigerant piping on liquid/gas		mm (inches)	ø6.35(1/4") - ø9.52(3/8")
Product specifications			
Dimensions	LxDxH	mm	700x210x600
	Net weight	Kg	14.8
Sound pressure level	Hi/Mi/Lo	dB(A)	43/41.5/35
Sound power level	Hi	dB(A)	58
Treated air (High / Med. / Low)		m^3/h	512/480/370
Motor power (Output)		W	16
Optional parts			
Wired remote control			YES
Manual centralized control		Requires NIM-GRH interface	YES
Wi-Fi centralized control			XRV Mobile BMS

TECHNICAL APPENDIX

R410A COMBINATIONS

HCKU 472 X2 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 A	Unit B	std.	std.	Std. power						
1 units	53	53	—	4.10	—	4.10	1.27	3.23	—	—	—	—	YES	-
2 units	**26+26**	**26**	**26**	**2.05**	**2.05**	**4.15**	**1.28**	**3.24**	**4.0**	**6.8**	**206**	**A++**	**YES**	**-**
	26+35	26	35	1.76	2.34	4.15	1.28	3.24	4.0	6.8	206	A++	YES	-

HCKU 472 X2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Absorbed power (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	std.	std.	Std. power						
1 units	53	53	—	4.40	—	4.40	1.19	3.71	—	—	—	—	YES	YES
2 units	**26+26**	**26**	**26**	**2.20**	**2.20**	**4.40**	**1.17**	**3.76**	**3.7**	**4.0**	**1295**	**A+**	**YES**	**YES**
	26+35	26	35	1.93	2.57	4.50	1.19	3.78	3.7	4.0	1295	A+	YES	YES

HCKU 531 X2 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 A	Unit B	std.	std.	Std. power						
1 units	53	53	—	5.00	—	5.00	1.72	2.91	—	—	—	—	NO	-
2 units	**26+26**	**26**	**26**	**2.60**	**2.60**	**5.20**	**1.79**	**2.91**	**5.0**	**6.2**	**282**	**A++**	**NO**	**-**
	26+35	26	35	2.31	3.09	5.40	1.83	2.95	5.2	6.3	289	A++	NO	-
	26+53	26	53	1.80	3.60	5.40	1.77	3.05	5.2	6.3	289	A++	NO	-
	35+35	35	35	2.70	2.70	5.40	1.79	3.01	5.2	6.3	289	A++	NO	-

HCKU 531 X2 Heating

Combinations	Unit indoor	Combination		Rated heating capacity (kW)		Total heating capacity (kW)	Absorbed power (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	std.	std.	Std. power						
1 units	53	53	—	5.30	—	5.30	1.43	3.71	—	—	—	—	NO	YES
2 units	**26+26**	**26**	**26**	**2.75**	**2.75**	**5.50**	**1.48**	**3.71**	**4.6**	**3.8**	**1695**	**A**	**NO**	**YES**
	26+35	26	35	2.40	3.20	5.60	1.49	3.75	4.6	3.8	1695	A	NO	YES
	26+53	26	53	1.87	3.73	5.60	1.47	3.81	4.6	3.8	1695	A	NO	YES
	35+35	35	35	2.80	2.80	5.60	1.49	3.75	4.6	3.8	1695	A	NO	YES

HCKU 601 X3 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	std.	std.	Std. power						
2 units	26+26	26	26	—	2.65	2.65	—	5.30	1.65	3.21	5.3	5.6	331	A+	NO	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.87	3.21	6.0	5.6	375	A+	NO	-
	26+53	26	53	—	2.10	4.20	—	6.30	1.94	3.24	6.1	5.6	381	A+	NO	-
	35+35	35	35	—	3.10	3.10	—	6.20	1.93	3.21	6.0	5.6	375	A+	NO	-
3 units	**26+26+26**	**26**	**26**	**26**	**2.10**	**2.10**	**2.10**	**6.10**	**1.89**	**3.23**	**6.1**	**6.3**	**339**	**A++**	**YES**	**-**
	26+26+35	26	26	35	1.89	1.89	2.52	6.10	1.89	3.23	6.1	6.3	339	A++	YES	-

HCKU 601 X3 Heating

Combinations	Unit indoor	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	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	26+26	26	26	—	2.95	2.95	—	5.90	1.63	3.61	4.8	3.8	1768	A	NO	NO
	26+35	26	35	—	2.70	3.60	—	6.30	1.75	3.61	5.1	3.8	1886	A	NO	NO
	26+53	26	53	—	2.10	4.20	—	6.30	1.76	3.58	5.1	3.8	1886	A	NO	NO
	35+35	35	35	—	3.15	3.15	—	6.30	1.75	3.61	5.1	3.8	1886	A	NO	NO
3 units	**26+26+26**	**26**	**26**	**26**	**2.23**	**2.23**	**2.23**	**6.60**	**1.78**	**3.71**	**5.5**	**3.8**	**2026**	**A**	**YES**	**YES**
	26+26+35	26	26	35	2.01	2.01	2.68	6.60	1.78	3.71	5.5	3.8	2034	A	YES	YES

R410A COMBINATIONS

HCKU 761 X3 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	std.	std.	Std. power						
2 units	26+26	26	26	—	2.65	2.65	—	5.30	1.65	3.21	5.3	6.3	294	A++	NO	-
	26+35	26	35	—	2.57	3.43	—	6.00	1.87	3.21	6.0	6.3	333	A++	NO	-
	26+53	26	53	—	2.27	4.53	—	6.80	2.11	3.23	6.8	6.3	378	A++	NO	-
	35+35	35	35	—	3.15	3.15	—	6.30	1.96	3.21	6.3	6.3	350	A++	NO	-
	35+53	35	53	—	2.72	4.08	—	6.80	2.11	3.23	6.8	6.3	378	A++	NO	-
3 units	**26+26+26**	**26**	**26**	**26**	**2.63**	**2.63**	**2.63**	**8.00**	**2.48**	**3.23**	**7.6**	**6.6**	**403**	**A++**	**YES**	**-**
	26+26+35	26	26	35	2.37	2.37	3.16	8.00	2.45	3.27	7.6	6.6	403	A++	YES	-
	26+35+35	26	35	35	2.15	2.87	2.87	8.00	2.44	3.28	7.6	6.6	403	A++	YES	-
	35+35+35	35	35	35	2.63	2.63	2.63	8.00	2.44	3.28	7.6	6.6	403	A++	YES	-

HCKU 761 X3 Heating

Combinations	Unit indoor	Combination			Rated heating capacity (kW)			Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	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	26+26	26	26	—	3.00	3.00	—	6.00	1.66	3.61	5.5	3.8	2026	A	NO	NO
	26+35	26	35	—	2.70	3.60	—	6.30	1.75	3.61	5.5	3.8	2026	A	NO	NO
	26+53	26	53	—	2.33	4.67	—	7.00	1.93	3.62	5.5	3.8	2026	A	NO	NO
	35+35	35	35	—	3.25	3.25	—	6.50	1.80	3.61	5.5	3.8	2026	A	NO	NO
	35+53	35	53	—	2.80	4.20	—	7.00	1.93	3.62	5.5	3.8	2026	A	NO	NO
3 units	**26+26+26**	**26**	**26**	**26**	**2.73**	**2.73**	**2.73**	**8.60**	**2.32**	**3.71**	**5.7**	**4.0**	**1995**	**A+**	**YES**	**YES**
	26+26+35	26	26	35	2.49	2.49	3.32	8.60	2.29	3.75	5.7	4.0	1995	A+	YES	YES
	26+35+35	26	35	35	2.26	3.02	3.02	8.60	2.27	3.78	5.7	4.0	1995	A+	YES	YES
	35+35+35	35	35	35	2.77	2.77	2.77	8.60	2.27	3.78	5.7	4.0	1995	A+	YES	YES

HCKU 811 X4 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 D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.65	3.21	5.3	6.1	304	A++	NO	-
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.87	3.21	6.0	6.1	344	A++	NO	-
	26+53	26	53	—	—	2.43	4.87	—	—	7.30	2.27	3.21	7.3	6.1	419	A++	NO	-
	26+71	26	71	—	—	2.05	5.45	—	—	7.50	2.34	3.21	7.5	6.1	430	A++	NO	-
	35+35	35	35	—	—	3.25	3.25	—	—	6.50	2.02	3.21	6.5	6.1	373	A++	NO	-
	35+53	35	53	—	—	2.92	4.38	—	—	7.30	2.27	3.21	7.3	6.1	419	A++	NO	-
	35+71	35	71	—	—	2.50	5.00	—	—	7.50	2.34	3.21	7.5	6.1	430	A++	NO	-
	53+53	53	53	—	—	3.75	3.75	—	—	7.50	2.34	3.21	7.5	6.1	430	A++	NO	-
3 units	26+26+26	26	26	26	—	2.37	2.37	2.37	—	7.10	2.18	3.25	7.4	6.5	398	A++	YES	-
	26+26+35	26	26	35	—	2.34	2.34	3.12	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	26+26+53	26	26	53	—	1.95	1.95	3.90	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	26+35+35	26	35	35	—	2.13	2.84	2.84	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	26+35+53	26	35	53	—	1.80	2.40	3.60	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
	35+35+35	35	35	35	—	2.60	2.60	2.60	—	7.80	2.40	3.25	7.4	6.5	398	A++	YES	-
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.05**	**2.05**	**2.05**	**2.05**	**8.20**	**2.47**	**3.32**	**7.8**	**6.8**	**401**	**A++**	**YES**	**-**
	26+26+26+35	26	26	26	35	1.89	1.89	1.89	2.53	8.20	2.47	3.32	7.8	6.8	401	A++	NO	-

R410A COMBINATIONS

HCKU 811 X4 Heating

Combinations	Unit indoor	Combination				Rated heating capacity (kW)				Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.71	3.50	4.6	3.8	1702	A	NO	NO
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	2.00	3.50	5.4	3.8	1986	A	NO	NO
	26+53	26	53	—	—	2.63	5.27	—	—	7.90	2.26	3.50	6.1	3.8	2241	A	NO	NO
	26+71	26	71	—	—	2.15	5.75	—	—	7.90	2.26	3.50	6.1	3.8	2241	A	NO	NO
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	2.14	3.50	5.8	3.8	2128	A	NO	NO
	35+53	35	53	—	—	3.20	4.80	—	—	8.00	2.29	3.50	6.2	3.8	2269	A	NO	NO
	35+71	35	71	—	—	3.20	4.80	—	—	8.00	2.29	3.50	6.2	3.8	2269	A	NO	NO
	53+53	53	53	—	—	4.00	4.00	—	—	8.00	2.29	3.50	6.2	3.8	2269	A	NO	NO
3 units	26+26+26	26	26	26	—	2.87	2.87	2.87	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+26+35	26	26	35	—	2.58	2.58	3.44	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+26+53	26	26	53	—	2.15	2.15	4.30	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+35+35	26	35	35	—	2.35	3.13	3.13	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	26+35+53	26	35	53	—	1.98	2.65	3.97	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
	35+35+35	35	35	35	—	2.87	2.87	2.87	—	8.60	2.28	3.77	6.8	3.9	2432	A	YES	YES
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.23**	**2.23**	**2.23**	**2.23**	**8.80**	**2.34**	**3.76**	**6.9**	**4.0**	**2415**	**A+**	**YES**	**YES**
	26+26+26+35	26	26	26	35	2.10	2.10	2.10	2.80	8.80	2.42	3.64	6.9	4.0	2415	A+	NO	NO

HCKU 1061 X4 Cooling

Combinations	Indoor Units	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 D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	2.65	2.65	—	—	5.30	1.65	3.21	5.3	6.8	273	A++	NO	-
	26+35	26	35	—	—	2.57	3.43	—	—	6.00	1.87	3.21	6.0	6.8	309	A++	NO	-
	26+53	26	53	—	—	2.50	5.00	—	—	7.50	2.34	3.21	7.5	6.8	386	A++	NO	-
	26+71	26	71	—	—	2.59	6.91	—	—	9.50	2.96	3.21	9.5	6.8	489	A++	NO	-
	35+35	35	35	—	—	3.50	3.50	—	—	7.00	2.18	3.21	7.0	6.8	360	A++	NO	-
	35+53	35	53	—	—	3.40	5.10	—	—	8.50	2.65	3.21	8.5	6.8	438	A++	NO	-
	35+71	35	71	—	—	3.33	6.67	—	—	10.00	3.12	3.21	10.0	6.8	515	A++	NO	-
	53+53	53	53	—	—	5.00	5.00	—	—	10.00	3.12	3.21	10.0	6.8	515	A++	NO	-
3 units	26+26+26	26	26	26	—	2.50	2.50	2.50	—	7.50	2.34	3.21	7.5	7.2	365	A++	NO	-
	26+26+35	26	26	35	—	2.55	2.55	3.40	—	8.50	2.65	3.21	8.5	7.2	413	A++	NO	-
	26+26+53	26	26	53	—	2.50	2.50	5.00	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+26+71	26	26	71	—	2.14	2.14	5.71	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+35+35	26	35	35	—	2.59	3.45	3.45	—	9.50	2.96	3.21	9.5	7.2	462	A++	NO	-
	26+35+53	26	35	53	—	2.31	3.08	4.62	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+35+71	26	35	71	—	2.00	2.67	5.33	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	26+53+53	26	53	53	—	2.00	4.00	4.00	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+35+35	35	35	35	—	3.33	3.33	3.33	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+35+53	35	35	53	—	2.86	2.86	4.29	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+35+71	35	35	71	—	2.50	2.50	5.00	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
	35+53+53	35	53	53	—	2.50	3.75	3.75	—	10.00	3.12	3.21	10.0	7.2	486	A++	NO	-
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.65**	**2.65**	**2.65**	**2.65**	**11.05**	**3.42**	**3.23**	**10.6**	**7.1**	**523**	**A++**	**YES**	**-**
	26+26+26+35	26	26	26	35	2.45	2.45	2.45	3.26	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+26+26+53	26	26	26	53	2.12	2.12	2.12	4.24	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+26+35+35	26	26	35	35	2.27	2.27	3.03	3.03	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+26+35+53	26	26	35	53	1.99	1.99	2.65	3.98	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+35+35+35	26	35	35	35	2.12	2.83	2.83	2.83	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	26+35+35+53	26	35	35	53	1.87	2.49	2.49	3.74	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-
	35+35+35+35	35	35	35	35	2.65	2.65	2.65	2.65	11.05	3.42	3.23	10.6	7.1	523	A++	NO	-

R410A COMBINATIONS

HCKU 1061 X4 Heating

Combinations	Indoor Units	Combination				Rated heating capacity (kW)				Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignh	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit A	Unit B	Unit C	Unit D	std.	std.	Std. power						
2 units	26+26	26	26	—	—	3.00	3.00	—	—	6.00	1.65	3.63	6.2	3.5	2480	A	NO	NO
	26+35	26	35	—	—	3.00	4.00	—	—	7.00	1.93	3.63	4.7	3.5	1860	A	NO	NO
	26+53	26	53	—	—	2.93	5.87	—	—	8.80	2.43	3.62	5.4	3.4	2234	A	NO	NO
	26+71	26	71	—	—	2.67	7.13	—	—	9.80	2.71	3.62	4.7	3.4	1915	A	NO	NO
	35+35	35	35	—	—	3.75	3.75	—	—	7.50	2.07	3.62	6.8	3.5	2728	A	NO	NO
	35+53	35	53	—	—	3.76	5.64	—	—	9.40	2.60	3.62	5.8	3.4	2393	A	NO	NO
	35+71	35	71	—	—	3.33	6.67	—	—	10.00	2.76	3.62	4.7	3.4	1915	A	NO	NO
	53+53	53	53	—	—	5.05	5.05	—	—	10.10	2.80	3.61	7.3	3.6	2833	A	NO	NO
3 units	26+26+26	26	26	26	—	3.33	3.33	3.33	—	10.00	2.75	3.63	8.9	3.6	3466	A	NO	NO
	26+26+35	26	26	35	—	3.03	3.03	4.04	—	10.10	2.78	3.63	7.8	3.6	3014	A	NO	NO
	26+26+53	26	26	53	—	2.68	2.68	5.35	—	10.70	2.96	3.61	8.5	3.6	3315	A	NO	NO
	26+26+71	26	26	71	—	2.28	2.28	6.14	—	10.70	2.96	3.61	8.5	3.6	3315	A	NO	NO
	26+35+35	26	35	35	—	2.92	3.89	3.89	—	10.70	2.95	3.63	8.9	3.6	3466	A	NO	NO
	26+35+53	26	35	53	—	2.47	3.29	4.94	—	10.70	2.96	3.62	8.9	3.6	3466	A	NO	NO
	26+35+71	26	35	71	—	2.14	2.85	5.71	—	10.70	2.96	3.62	8.9	3.6	3466	A	NO	NO
	26+53+53	26	53	53	—	2.14	4.28	4.28	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
	35+35+35	35	35	35	—	3.57	3.57	3.57	—	10.70	2.95	3.63	8.9	3.6	3466	A	NO	NO
	35+35+53	35	35	53	—	3.06	3.06	4.59	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
	35+35+71	35	35	71	—	2.68	2.68	5.35	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
	35+53+53	35	53	53	—	2.68	4.01	4.01	—	10.70	2.96	3.61	8.9	3.6	3466	A	NO	NO
4 units	**26+26+26+26**	**26**	**26**	**26**	**26**	**2.78**	**2.78**	**2.78**	**2.77**	**11.30**	**3.04**	**3.72**	**9.3**	**3.8**	**3426**	**A**	**YES**	**YES**
	26+26+26+35	26	26	26	35	2.56	2.56	2.56	3.42	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+26+26+53	26	26	26	53	2.22	2.22	2.22	4.44	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+26+35+35	26	26	35	35	2.38	2.38	3.17	3.17	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+26+35+53	26	26	35	53	2.08	2.08	2.78	4.16	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+35+35+35	26	35	35	35	2.22	2.96	2.96	2.96	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	26+35+35+53	26	35	35	53	1.96	2.61	2.61	3.92	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO
	35+35+35+35	35	35	35	35	2.78	2.78	2.78	2.77	11.30	3.05	3.70	9.3	3.8	3426	A	NO	NO

R410A COMBINATIONS

HCKU 1201 X5 Cooling

Comb.	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 D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	Std. power						
2 units	26+26	26	26	—	—	—	2.57	3.43	—	—	—	6.00	1.86	3.23	6.0	6.2	339	A++	NO	-
	26+35	26	35	—	—	—	2.50	5.00	—	—	—	7.50	2.34	3.21	7.5	6.2	423	A++	NO	-
	26+53	26	53	—	—	—	2.65	7.05	—	—	—	9.70	3.02	3.21	9.7	6.2	548	A++	NO	-
	26+71	26	71	—	—	—	3.50	3.50	—	—	—	7.00	2.17	3.23	7.0	6.2	395	A++	NO	-
	35+35	35	35	—	—	—	3.40	5.10	—	—	—	8.50	2.65	3.21	8.5	6.2	480	A++	NO	-
	35+53	35	53	—	—	—	3.33	6.67	—	—	—	10.00	3.12	3.21	10.0	6.2	565	A++	NO	-
	35+71	35	71	—	—	—	5.25	5.25	—	—	—	10.50	3.27	3.21	10.5	6.2	593	A++	NO	-
	53+53	53	53	—	—	—	4.93	6.57	—	—	—	11.50	3.58	3.21	11.5	6.2	649	A++	NO	-
3 units	26+26+26	26	26	26	—	—	2.67	2.67	2.67	—	—	8.00	2.46	3.25	8.0	6.5	431	A++	NO	-
	26+26+35	26	26	35	—	—	2.70	2.70	3.60	—	—	9.00	2.78	3.24	9.0	6.5	485	A++	NO	-
	26+26+53	26	26	53	—	—	2.63	2.63	5.25	—	—	10.50	3.26	3.22	10.5	6.5	565	A++	NO	-
	26+26+71	26	26	71	—	—	2.46	2.46	6.57	—	—	11.50	3.57	3.22	11.5	6.5	619	A++	NO	-
	26+35+35	26	35	35	—	—	2.45	3.27	3.27	—	—	9.00	2.78	3.24	9.0	6.5	485	A++	NO	-
	26+35+53	26	35	53	—	—	2.54	3.38	5.08	—	—	11.00	3.42	3.22	11.0	6.5	592	A++	NO	-
	26+35+71	26	35	71	—	—	2.30	3.07	6.13	—	—	11.50	3.57	3.22	11.5	6.5	619	A++	NO	-
	26+53+53	26	53	53	—	—	2.40	4.80	4.80	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	35+35+35	35	35	35	—	—	3.17	3.17	3.17	—	—	9.50	2.93	3.24	9.5	6.5	512	A++	NO	-
	35+35+53	35	35	53	—	—	3.29	3.29	4.93	—	—	11.50	3.57	3.22	11.5	6.5	619	A++	NO	-
	35+35+71	35	35	71	—	—	3.00	3.00	6.00	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	35+53+53	35	53	53	—	—	3.00	4.50	4.50	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	35+53+71	35	53	71	—	—	2.67	4.00	5.33	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
	53+53+53	53	53	53	—	—	4.00	4.00	4.00	—	—	12.00	3.74	3.21	12.0	6.5	646	A++	NO	-
4 units	26+26+26+26	26	26	26	26	—	2.63	2.63	2.63	2.63	—	10.50	3.25	3.23	10.5	6.8	540	A++	NO	-
	26+26+26+35	26	26	26	35	—	2.65	2.65	2.65	3.54	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	26+26+26+53	26	26	26	53	—	2.40	2.40	2.40	4.80	—	12.00	3.74	3.21	12.0	6.8	618	A++	NO	-
	26+26+26+71	26	26	26	71	—	2.17	2.17	2.17	5.79	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+26+35+35	26	26	35	35	—	2.46	2.46	3.29	3.29	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	26+26+35+53	26	26	35	53	—	2.25	2.25	3.00	4.50	—	12.00	3.74	3.21	12.0	6.8	618	A++	NO	-
	26+26+35+71	26	26	35	71	—	2.05	2.05	2.73	5.47	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+26+53+53	26	26	53	53	—	2.05	2.05	4.10	4.10	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+35+35+35	26	35	35	35	—	2.30	3.07	3.07	3.07	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	26+35+35+53	26	35	35	53	—	2.17	2.89	2.89	4.34	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+35+35+71	26	35	35	71	—	1.94	2.59	2.59	5.18	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	26+35+53+53	26	35	53	53	—	1.94	2.59	3.88	3.88	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
	35+35+35+35	35	35	35	35	—	2.88	2.88	2.88	2.88	—	11.50	3.57	3.22	11.5	6.8	592	A++	NO	-
	35+35+35+53	35	35	35	53	—	2.73	2.73	2.73	4.10	—	12.30	3.83	3.21	12.3	6.8	633	A++	NO	-
5 units	**26+26+26+26+26**	**26**	**26**	**26**	**26**	**26**	**2.46**	**2.46**	**2.46**	**2.46**	**2.46**	**12.30**	**3.73**	**3.30**	**12.3**	**7.6**	**566**	**A++**	**YES**	**-**
	26+26+26+26+35	26	26	26	26	35	2.31	2.31	2.31	2.31	3.08	12.30	3.73	3.30	12.3	7.6	566	A++	YES	-
	26+26+26+26+53	26	26	26	26	53	2.05	2.05	2.05	2.05	4.10	12.30	3.76	3.27	12.3	7.6	566	A++	YES	-
	26+26+26+35+35	26	26	26	35	35	2.17	2.17	2.17	2.89	2.89	12.30	3.75	3.28	12.3	7.6	566	A++	YES	-
	26+26+26+35+53	26	26	26	35	53	1.94	1.94	1.94	2.59	3.88	12.30	3.80	3.23	12.3	7.6	566	A++	YES	-
	26+26+35+35+35	26	26	35	35	35	2.05	2.05	2.73	2.73	2.73	12.30	3.75	3.28	12.3	7.6	566	A++	YES	-
	26+35+35+35+35	26	35	35	35	35	1.94	2.59	2.59	2.59	2.59	12.30	3.76	3.27	12.3	7.6	566	A++	YES	-

R410A COMBINATIONS

HCKU 1201 X5 Heating

Comb.	Unit indoor	Combination					Rated heating capacity (kW)					Total heating capacity (kW)	Absorbed power (kW)	COP (W/W)	Pdesignc	SCOP	Annual consumption (kWh)	Energy class	Tax deductions 65%	Thermal account 2.0
		Unit A	Unit B	Unit C	Unit D	Unit E	Unit A	Unit B	Unit C	Unit D	Unit E	std.	std.	Std. power						
2 units	26+26	26	26	—	—	—	2.91	3.89	—	—	—	6.80	1.87	3.63	6.8	3.6	2644	A	NO	NO
	26+35	26	35	—	—	—	2.93	5.87	—	—	—	8.80	2.42	3.63	8.8	3.6	3422	A	NO	NO
	26+53	26	53	—	—	—	2.78	7.42	—	—	—	10.20	2.82	3.62	9.0	3.6	3500	A	NO	NO
	26+71	26	71	—	—	—	3.75	3.75	—	—	—	7.50	2.07	3.63	7.3	3.6	2839	A	NO	NO
	35+35	35	35	—	—	—	3.76	5.64	—	—	—	9.40	2.59	3.63	8.8	3.8	3242	A	NO	NO
	35+53	35	53	—	—	—	3.50	7.00	—	—	—	10.50	2.90	3.62	9.3	3.8	3426	A	NO	NO
	35+71	35	71	—	—	—	5.50	5.50	—	—	—	11.00	3.04	3.62	9.3	3.8	3426	A	NO	NO
	53+53	53	53	—	—	—	4.93	6.57	—	—	—	11.50	3.18	3.62	9.5	3.8	3500	A	NO	NO
3 units	26+26+26	26	26	26	—	—	3.33	3.33	3.33	—	—	10.00	2.74	3.65	8.7	3.6	3383	A	NO	NO
	26+26+35	26	26	35	—	—	3.30	3.30	4.40	—	—	11.00	3.01	3.65	8.8	3.6	3422	A	NO	NO
	26+26+53	26	26	53	—	—	2.88	2.88	5.75	—	—	11.50	3.17	3.63	9.3	3.5	3720	A	NO	NO
	26+26+71	26	26	71	—	—	2.57	2.57	6.86	—	—	12.00	3.32	3.61	9.5	3.4	3912	A	NO	NO
	26+35+35	26	35	35	—	—	3.14	4.18	4.18	—	—	11.50	3.16	3.64	9.0	3.4	3706	A	NO	NO
	26+35+53	26	35	53	—	—	2.77	3.69	5.54	—	—	12.00	3.31	3.62	9.3	3.5	3720	A	NO	NO
	26+35+71	26	35	71	—	—	2.40	3.20	6.40	—	—	12.00	3.32	3.61	9.6	3.4	3953	A	NO	NO
	26+53+53	26	53	53	—	—	2.40	4.80	4.80	—	—	12.00	3.32	3.61	9.6	3.5	3840	A	NO	NO
	35+35+35	35	35	35	—	—	3.83	3.83	3.83	—	—	11.50	3.16	3.64	9.3	3.5	3720	A	NO	NO
	35+35+53	35	35	53	—	—	3.43	3.43	5.14	—	—	12.00	3.31	3.62	9.5	3.5	3800	A	NO	NO
	35+35+71	35	35	71	—	—	3.00	3.00	6.00	—	—	12.00	3.32	3.61	9.7	3.4	3994	A	NO	NO
	35+53+53	35	53	53	—	—	3.00	4.50	4.50	—	—	12.00	3.32	3.61	9.7	3.4	3994	A	NO	NO
	35+53+71	35	53	71	—	—	2.67	4.00	5.33	—	—	12.00	3.32	3.61	9.9	3.4	4076	A	NO	NO
	53+53+53	53	53	53	—	—	4.00	4.00	4.00	—	—	12.00	3.32	3.61	9.9	3.5	3960	A	NO	NO
4 units	26+26+26+26	26	26	26	26	—	3.00	3.00	3.00	3.00	—	12.00	3.30	3.64	9.3	3.8	3426	A	NO	NO
	26+26+26+35	26	26	26	35	—	2.77	2.77	2.77	3.69	—	12.00	3.31	3.63	9.4	3.7	3557	A	NO	NO
	26+26+26+53	26	26	26	53	—	2.40	2.40	2.40	4.80	—	12.00	3.32	3.61	9.6	3.6	3733	A	NO	NO
	26+26+26+71	26	26	26	71	—	2.17	2.17	2.17	5.79	—	12.30	3.41	3.61	10.0	3.4	4118	A	NO	NO
	26+26+35+35	26	26	35	35	—	2.57	2.57	3.43	3.43	—	12.00	3.31	3.63	9.5	3.5	3800	A	NO	NO
	26+26+35+53	26	26	35	53	—	2.25	2.25	3.00	4.50	—	12.00	3.32	3.61	9.7	3.5	3880	A	NO	NO
	26+26+35+71	26	26	35	71	—	2.05	2.05	2.73	5.47	—	12.30	3.40	3.62	9.9	3.4	4076	A	NO	NO
	26+26+53+53	26	26	53	53	—	2.00	2.00	4.00	4.00	—	12.00	3.31	3.62	9.9	3.5	3960	A	NO	NO
	26+35+35+35	26	35	35	35	—	2.40	3.20	3.20	3.20	—	12.00	3.31	3.63	9.6	3.6	3733	A	NO	NO
	26+35+35+53	26	35	35	53	—	2.12	2.82	2.82	4.24	—	12.00	3.32	3.61	10.0	3.5	4000	A	NO	NO
	26+35+35+71	26	35	35	71	—	1.94	2.59	2.59	5.18	—	12.30	3.40	3.62	11.0	3.4	4529	A	NO	NO
	26+35+53+53	26	35	53	53	—	1.89	2.53	3.79	3.79	—	12.00	3.31	3.62	11.0	3.4	4529	A	NO	NO
	35+35+35+35	35	35	35	35	—	3.00	3.00	3.00	3.00	—	12.00	3.31	3.63	9.7	3.6	3772	A	NO	NO
	35+35+35+53	35	35	35	53	—	2.67	2.67	2.67	4.00	—	12.00	3.32	3.61	9.9	3.5	3960	A	NO	NO
5 units	**26+26+26+26+26**	**26**	**26**	**26**	**26**	**26**	**2.46**	**2.46**	**2.46**	**2.46**	**2.46**	**12.50**	**3.37**	**3.71**	**9.6**	**3.8**	**3537**	**A**	**YES**	**YES**
	26+26+26+26+35	26	26	26	26	35	2.31	2.31	2.31	2.31	3.08	12.50	3.37	3.71	9.8	3.8	3611	A	YES	YES
	26+26+26+26+53	26	26	26	26	53	2.05	2.05	2.05	2.05	4.10	12.50	3.28	3.81	9.9	3.5	3960	A	YES	YES
	26+26+26+35+35	26	26	26	35	35	2.17	2.17	2.17	2.89	2.89	12.50	3.32	3.77	10.0	3.6	3889	A	YES	YES
	26+26+26+35+53	26	26	26	35	53	1.94	1.94	1.94	2.59	3.88	12.50	3.28	3.81	11.0	3.5	4400	A	YES	YES
	26+26+35+35+35	26	26	35	35	35	2.05	2.05	2.73	2.73	2.73	12.50	3.32	3.77	10.1	3.6	3928	A	YES	YES
	26+35+35+35+35	26	35	35	35	35	1.94	2.59	2.59	2.59	2.59	12.50	3.28	3.81	11.0	3.5	4400	A	YES	YES