



RESIDENTIAL MONO&MULTI 2015



RESIDENTIAL&COMMERCIAL CATALOGUE 2015

2015

HOKKAIDO

Experience makes technology

RESIDENTIAL & COMMERCIAL CATALOGUE

2015

Hokkaido is a brand of Termal Group, a company based in Italy and having an international vocation, which for 30 years has represented an important point of reference in the world of air conditioning throughout Europe.

A trademark that has been able to stand out in the market, offering an attractive quality/price ratio, suitable for different commercial requirements of installers, retailers, designers and end users.



HOKKAIDO



Experience
makes
technology

Energy saving, comfort and respect for the environment have always been the goals of Hokkaido, committed to the development of technological solutions which are looking to the future.

Hokkaido

With over 15 years of experience in providing reliable and high-tech products, Hokkaido brand is a recognized leader in Italy and Europe, in the field of air conditioners for residential, commercial and industrial applications.

Our office

The company's headquarters is in Bologna, at the operational centre of Termal Group, to which it belongs.

A modern building (4,000 square metres of offices and 4,500 square metres of area for product storage) is the operative pole of commercial, logistic and administrative activities. This center also converge assistance activities and technical-commercial training, managed directly to ensure the highest quality standards. The building, built in a strategic position with respect to the airport and the motorway, is designed according to modern architectural concepts both as regards to the logistics, both for the corporate wellness of employees.

Offices with large windows that connect with the outside, and large spaces for time after work - such as the swimming pool, gym, tennis court, soccer field, guesthouse and restaurant - make the seat on a human scale. Termal is qualified as one of the **"best places to work"** in Italy, for it has always been able to anticipate the future.

An international reality

In Europe, Hokkaido has been present since 1999 - its year of birth -, when Termal Group has expressed its sales force also at international level, with the direct export of air conditioners in several dozen countries in Europe and outside Europe.

The international network of dealers and distributor partners has quickly developed - mainly due to the variety and reliability of services offered - thus strengthening the business development strategy of Hokkaido brand in international markets.

A great attention to customers' needs has contributed to the success of Hokkaido brand. In particular, a special care to the logistics organization, that has always been Termal Group's point of excellence: prompt deliveries throughout the EU territory, a vast assortment of spare parts and accessories that can be ordered online and available in 24 hours, technical and training support both on site and at Termal Group's headquarters in Bologna.

All this gives customers a great operational and commercial flexibility, and therefore a strong competitiveness for a better management of the various local markets.

THE DISTRIBUTION NETWORK

The distribution of Hokkaido brand takes place in Italy and Europe through dedicated channels, assigned to two different commercial companies that provide a market coverage to the brand.

HOKKAIDO NETWORK

The company is dedicated to the distribution of Hokkaido products on Italian market and International market.

In Italy, it controls a network of specialized partners - both wholesalers and installers of traditional heating and sanitary water channel -, widely distributed throughout the territory. Abroad, an international *network* composed of dealers and distributors ensures quick deliveries throughout the EU territory.

Hokkaido aims to become the leader of its reference market by offering a wide and versatile range, characterized by high technology, very high performance and highly competitive prices. www.hokkaido.it



OUR MISSION

Being constantly engaged in improving the climate in the world means also making a commitment to use energy in a smart way, in order to protect the environment.



CLIMAMIO NETWORK

Climamio franchising network consists of points of sales specialized in air conditioning. A team of experienced and reliable professionals is at the disposal of end users and designers, in order to assist them in all the necessary steps for the selection of Hokkaido products - which are able to meet all the different air conditioning requirements.

Climamio's point of sales follow the whole life cycle of the product after installation, offering a scheduled maintenance and a qualified assistance. www.climamio.it



WIDE RANGE, QUICK DELIVERIES THROUGHOUT THE EU TERRITORY, A VAST ASSORTMENT OF SPARE PARTS AND ACCESSORIES, THAT CAN BE ORDERED ONLINE AND AVAILABLE IN 24 HOURS.

2020:

AN IMPORTANT OBJECTIVE

ErP Ecodesign Directive

Eco-design of energy-related products (ErP)

Over 80% of the environmental impact of a product is determined at the design stage. **Ecodesign** implies taking into account all the environmental impacts of a product from the earliest stages of design.

The purpose of this standard is therefore to promote the eco-design of energy-using products and to reduce consumptions and CO₂ emissions. All this contributes, through incremental development, to meet the **strategic European plan '20 – 20 – 20' which involves the following within the year 2020:**

- 20% reduction of primary energy consumption;
- 20% reduction of CO₂ emissions;
- 20% use of renewable energy.

On January 1st, 2013 the new minimum energy efficiency values came into force, to be respected in the production of new air-conditioning appliances. This is required by the European Directive ErP (Energy Related Products) which introduces:

- new methods for calculating energy efficiency, including the seasonal efficiency parameter SCOP in Heating mode and SEER in Cooling mode;
- the obligation for the manufacturers to comply with these new minimum levels of energy efficiency, together with the maximum set values of sound power referred to all new products on the market.

With these new standards, manufacturers are encouraged to seek and adopt new design methods. **The most evident impact will be exactly on the use of heat pumps as primary heating of residential environments.**

CO₂O₂H₂O

I VANTAGGI



FOR THE ENVIRONMENT

The Directive requires the Manufacturers to promote the development of more efficient appliances, which leads to a reduction in the consumption of valuable natural resources, minimizing the environmental impact.

The increased quality and quantity of information increases transparency on energy consumption of air conditioning.



FOR THE CONSUMER

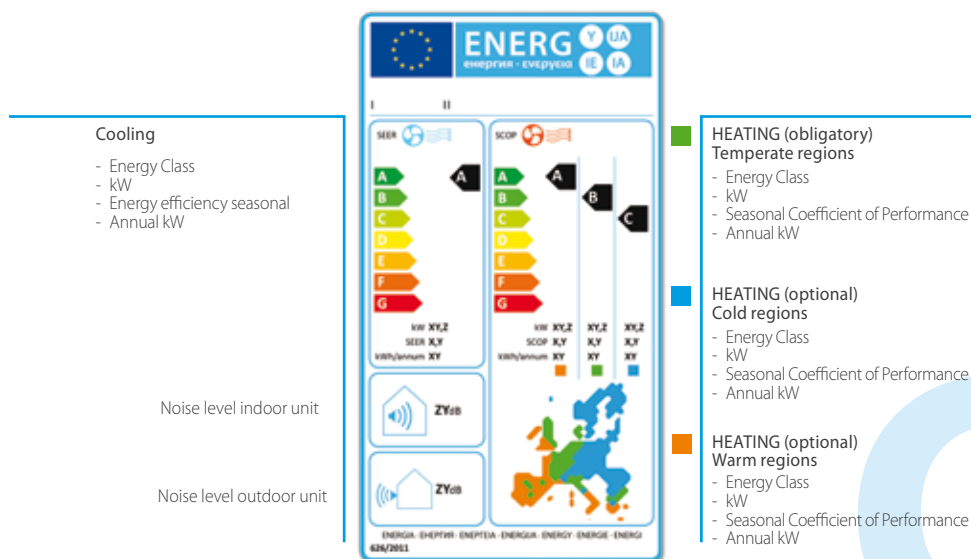
The European Directive ErP:

- aims to increase the minimum efficiency of air conditioners, rearranging at the same time the field of air conditioning and establishing the prohibition of import and production of the products which are no more efficient;
- ensures that the differences between the regulations of the various European countries do not become obstacles to the intra-European market;
- requires all Manufacturers to provide more details and information to the Consumer, thus allowing to make more conscious choices when purchasing.

2020:

AN IMPORTANT OBJECTIVE

Energy Label



THE FORMAT

In agreement with the **Ecodesign Directive**, the Regulation 626/2011 is born for the new energy label based on the actual seasonal performance of air conditioners.

Therefore, since January 1st, 2013 the new energy label came into force.

In all product categories for which it had been already planned, the energy label has kept its format and simple design, i.e. the basic elements that make it recognizable:

- division into classes;
- 7 energy efficiency classes;
- chromatic scale: the bright green colour indicates the high energy efficiency product, red colour indicates the low energy efficiency product.

The very clear representation of energy efficiency in Heating mode related to the seasonal COP.

Moreover, additional elements have been introduced to allow the manufacturers - and consequently the retailers - to highlight progress and technological excellence.

The new European legislation on energy label introduces new energy classes above the class A (A+, A++, A+++): starting from 2013 up to 2019, these classes will gradually indicate more clearly the consumption of the equipments by highlighting the products' differences both in quality and performance.

Since January 1st, 2013 the fixed air conditioners of new production and / or new import will have to meet minimum energy efficiency requirements not less than Class "D" in Cooling mode and Class "A" in Heating mode - which will be rising in future years.

Such labelling shows uniformity in all 28 EU member states and linguistic neutrality, since the texts have been replaced by

pictograms that inform at a glance the consumers about the characteristics and performance of the appliances.

The usual indication of sound pressure (amplitude of pressure wave, or sound wave influenced by the environment) is replaced by the parameter of sound power (energy supplied per time unit, independent of the environment in which the sound is produced), the value of which is higher than that of the sound pressure used in the previous legislation.

The promotional and advertising material concerning the product must necessarily bear the reference to the energy efficiency class of the air conditioner.

The rule, in force from January 1st, 2013 in all the countries of the European Union, cannot be applied to the products introduced on the European market before that date.



info: www.ec.europa.eu





RESIDENTIAL MONO&MULTI 2015



Residential Range 2015

AIR CONDITIONER WITHOUT OUTDOOR UNIT

Monoblock air conditioner, without outdoor unit: on the facade of the buildings only 2 small grills are visible.

MONOSPLIT & MULTISPLIT AIR CONDITIONERS

Designed to cool one or more spaces, available in several capacities and heat pump for middle seasons.

PORTABLE AIR CONDITIONER & DEHUMIDIFIERS

Extremely silent, compact and efficient: COOLBOX & DRYBOX ensure low energy consumptions and optimal performance. Lightweight and easily movable, they have a pleasant design which is suitable in every environment.

PRODUCT LINE UP 2015 8

AIR CONDITIONER WITHOUT OUTDOOR UNIT

INSIDE on/off 10

MONOSPLIT AIR CONDITIONERS

Performance Line on-off (*cooling only*)

HKEQ 261-351 F 12

Performance Line DC Inverter

HKEQ 262-352-512-642 X 13

Flexy Line DC Inverter 14

HKEU 200-260-350-530-710 XAL (*wall*) 15

HTFU 350-530 XAL (*cassette 60x60*) 16

HTBU 710 XAL (*cassette 84x84 slim*) 17

HUCU 350-530-710 XAL (*duct medium Pa*) 18

HFIU 350 XAL (*console*) 19

HSFU 530-710 XAL (*floor/ceiling*) 20

MULTISPLIT AIR CONDITIONERS

Multisplit Performance Line DC Inverter 22

Multisplit Flexy Line DC Inverter 24

PORTABLE AIR CONDITIONER & DEHUMIDIFIERS

Portable COOLBOX (*cooling only*) 30

Dehumidifiers DRYBOX 31

RESIDENTIAL MONO&MULTI 2015

INDOOR UNITS

MONOSPLIT & MULTISPLIT AIR CONDITIONERS

kW		2,00	2,60	3,50	5,10	5,30	6,40	7,10
Wall	Performance Line on-off							
	 cooling only HKEQ F		✓ mono	✓ mono				
	Performance Line DC Inverter							
	 HKEQ X		✓ mono	✓ mono	✓ mono		✓ mono	
	Multi Performance Line DC Inverter							
	 HKETM Q	✓ multi	✓ multi	✓ multi				
	Flexy Line DC Inverter							
Cassette	 HKEU X	✓ multi	✓ multi	✓ multi		✓ multi		
	Flexy Line DC Inverter							
	 HKEU XAL	✓ mono/multi	✓ mono/multi	✓ mono/multi		✓ mono/multi		✓ mono/multi
	Flexy Line DC Inverter							
Cassette	60x60 round flow  HTFU XA/XAL	✓ XA multi	✓ XA multi	✓ XAL mono/multi		✓ XAL mono/multi		
	Flexy Line DC Inverter							
	Slim 84x84  HTBU XAL							✓ mono/multi
Duct	Flexy Line DC Inverter							
	medium Pa  HUCU XA/XAL	✓ XA multi	✓ XA multi	✓ XAL mono/multi		✓ XAL mono/multi		✓ XAL mono/multi
Floor	Flexy Line DC Inverter							
	console  HFIU XA/XAL	✓ XA multi	✓ XA multi	✓ XAL mono/multi		✓ XA multi		
	Flexy Line DC Inverter							
Floor	floor/ceiling  HSFU XAL					✓ mono/multi		✓ mono/multi

AIR CONDITIONER WITHOUT OUTDOOR UNIT



PORTABLE AIR CONDITIONER



DEHUMIDIFIERS



RESIDENTIAL MONO&MULTI 2015

OUTDOOR UNITS

MONOSPLIT AIR CONDITIONERS

kW	2,00	2,50	3,50	5,10	5,30	6,40	7,10
Monosplit Performance Line on/off							
model		 HCNQ 261F	 HCNQ 351F				
Monosplit Performance Line DC Inverter							
model		 HCNQ 262X	 HCNQ 352X	 HCNQ 512X		 HCNQ 642X	
Monosplit Flexy Line DC Inverter							
model	 HCNI 200XA	 HCNI 260XA	 HCNI 350XA		 HCNI 530XA		 HCNI 710XA

MULTISPLIT AIR CONDITIONERS

kW		4,10	4,70	5,30	6,00	7,60	8,10	10,50	10,55	12,30
		2 rooms	2 rooms	2 rooms	3 rooms	3 rooms	4 rooms	4 rooms	5 ambienti	5 ambienti
Multisplit Performance Line DC Inverter										
model	<div></div> <div>HCKTM Q2</div>									
Multisplit Flexy Line DC Inverter										
model		<div><div>NEW</div></div> <div>HCKU 470X2</div>	<div><div>NEW</div></div> <div>HCKU 530X2</div>	<div></div> <div>HCKU 600X3</div>	<div><div>NEW</div></div> <div>HCKU 760X3</div>	<div></div> <div>HCKU 810X4</div>	<div></div> <div>HCKU 1060X4</div>	<div></div> <div>HCKU 1060X5</div>	<div><div>NEW</div></div> <div>HCKU 1200X5</div>	



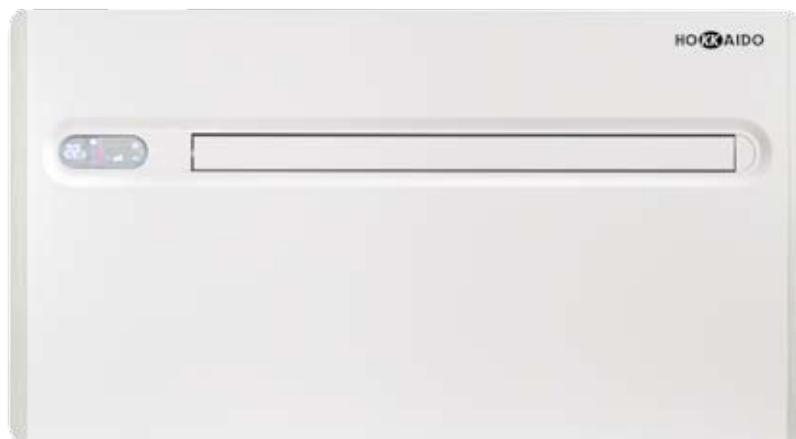
Performance and consumption are based on the following test conditions: heating O.T. 7° C DB, 6° C WB - I.T. 20° C DB - cooling: O.T. 35° C DB, 24° C WB - I.T. 27° C DB, 19° C WB (ISO T1).



AIR CONDITIONER WITHOUT OUTDOOR UNIT

INSIDE

ON/OFF HEAT PUMP THAT OPERATES
WITHOUT OUTDOOR UNIT



INSIDE, on/off heat pump without outdoor unit, make it possible to cool in summer and heat in winter.

The evaporator and the condenser - usually divided in the traditional split composed of two units - are united in a single body.

INSIDE allows to air-condition respecting the outside appearance of buildings, as in the case of old town centres.

ADJUSTABLE AIRFLOW

INSIDE is characterized by clean and modern lines, it is only 17 cm deep and can be installed both at the bottom and top of perimeter walls. By a simple press on the special button on the unit's display panel, it is possible to adjust the direction of the air outlet flap.

EASY TO INSTALL & REDUCED MAINTENANCE

Without outdoor unit, it can be easily installed on every perimeter wall, even without the intervention of a qualified refrigeration installer. It is sufficient to drill two holes of 162 mm diameter in the wall, and no duct is needed for connection to outdoor units. In case of cooling only operation, INSIDE can be installed without condensate drain pipe. For there are no refrigerant pipings, maintenance is practically useless.

NO FROST SYSTEM FOR COLD WEATHER WINTER

The condensate drain pan is constantly preheated, thus preventing the water icing during winter operation.

SILENT

Who does not appreciate the pleasure of silence?

Thanks to the capacity adopted, to the internal layout and to the wise use of sound-proofing materials, with INSIDE we have obtained exceptional levels of silence: it is really difficult to distinguish it from a normal wall split.

Because the real well-being is the power to rest or sleep in a comfortable room, with no noise.



AIR CONDITIONER WITHOUT OUTDOOR UNIT

NEW

INSIDE

REMOTE CONTROL & DISPLAY PANEL

INSIDE has a practical and functional remote controller, which is standard supplied. Moreover, the unit is provided with a display panel through which it is possible to select your desired settings: you can deactivate 'heating' function and activate LOCK function to block the keyboard.


TOUCH PANEL


RECLOSABLE EXTERNAL GRILLS

The tilting external grills open only when the appliance is operating; this ensures a better indoor comfort, as the entry of dust, noise and pollution is reduced. INSIDE is characterized by less maintenance and still less outdoor visibility.



Technical Data

Model		HTWIS 2300G
Cooling capacity (1)	kW	2.3
Heating capacity (2)	kW	2.25
Power input (Cooling) (1)	W	850
Power input (Heating) (2)	W	725
Annual energy consumption (Cooling) (1)	kWh	425
Dehumidifying capacity	l/h	1.1
Power supply voltage	V-F-Hz	230-1-50
EER	W/W	2.71
COP	W/W	3.1
Energy efficiency class (Cooling)		A
Energy efficiency class (Heating)		A
Fan speed internal/external	n.r.	3
Dimensions (WxHxD)	Mm	1030x555x170
Weight	Kg	48
Noise level (min-max)*	dB(A)	32/41
Diameter of wall holes	Mm	162
Refrigerant	Type	R-410A
Min. temperature Cooling (indoor/outdoor, DB)		18°C/-5°C
Min. temperature Heating (indoor/outdoor, DB)		5°C/-10°C

Test conditions	Indoor temperature	Outdoor temperature
Test in Cooling mode (1)	DB 27°C - WB 19°C	DB 35°C - WB 24°C
Test in Heating mode (2)		
Power input in Heating mode (2)	DB 20°C - WB 15°C	DB 7°C - WB 6°C

* Sound pressure at a distance of 1 m and a height of 1.5 m

Reference standard EN 14511. 1. 2.3.4



INSIDE can be installed anywhere. It represents the ideal solution for buildings with special architectural requirements, allowing to install the air conditioner even where urban and residents' restrictions prevent the installation of traditional compressor.

The external grills can be painted with the same colours of the facade, so as to hide almost completely the installation.

MONOSPLIT PERFORMANCE LINE ON-OFF COOLING ONLY

Wall
HKEQ 261-351F

cooling only



2 capacities: 2.70~3.50 kW.

Smart control of internal fan in thermostatic stops.

Thermostat operated by pc.

Timer ON or Timer OFF / timed operation.

Autorestart in event of blackout.

"SLEEP" function (energy saving).

LED display.



Model			HKEQ 261 F HCNQ 261 F	HKEQ 351 F HCNQ 351 F
Type	On-Off			
Control	Remote controller			
Rated capacity (T=+35°C)	Cooling	W	2700	3500
Rated power input (T=+35°C)	Cooling	W	770	990
Annual energy consumption	Cooling	kWh/a	261	340
Energy efficiency class seasonal	Cooling	626/2011 ¹	D	D
Energy efficiency seasonal index	Cooling	SEER ²	3.60	3.60
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.51	3.54
Design load (Pdesignc)	Cooling	kW	2.70	3.50
Temperature range	Cooling	°C	0° C (at indoor temp. over 16° C)	
Removed wet		Lt/h	1.00	1.50
Sound pressure level - I.U.	Hi-Me-Lo	dB(A)	38-34-26	40-34-26
Sound power level - I.U.		dB(A)	50	52
Sound pressure level - O.U.		dB(A)	48	50
Sound power level - O.U.		dB(A)	63	65
Electrical data				
Power supply	220-240V ~ /50Hz/1P to Indoor Unit			
Voltage limits	V		198~264	198~264
Power cable	Type		2+T x 1.5 mm ²	2+T x 2.5 mm ²
Current consumption	Cooling	A	3.50 (1.30~5.00)	4.50 (1.30~6.10)
Refrigerant circuit				
Refrigerant (GWP) ⁴			R410A (2088)	R410A (2088)
Refrigerant Charge	kg		0.91	1.00
Max splitting distance	m		15	
Max splitting level difference I.U./O.U.	m		5/5	
Max splitting without additional refrigerant charge	m		5	
Additional refrigerant charge	gr/m		20	
Compressor	Type		Rotary	
	Model		44A233AJ-FEKC	48A313PM-55KF
Fans				
Max indoor air flow	m ³ /h		530	700
Power input	W		18	18
Max outdoor air flow	m ³ /h		2000	2000
Power input	W		30	30
Wiring				
Cable connection between I.U. and O.U.	Type		2+T x 1.5 mm ²	2+T x 1.5 mm ²
Refrigerant piping	Gas	mm/inches	ø9.52 (3/8")	ø9.52 (3/8")
	Liquid	mm/inches	ø6.35 (1/4")	ø6.35 (1/4")
Specifications				
Dimensions (WxHxD)	I.U.	mm	800x240x180	943x280x220
	O.U.	mm	760x552x256	760x552x256
Net weight	I.U.	kg	8	11
	O.U.	kg	32	36

¹ Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

² Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

³ Value measured according to EN14511.

⁴ Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

MONOSPLIT PERFORMANCE LINE DC INVERTER

Wall

HKEQ 262-352-512-642 X



**SEER
A++**

4 capacities: 2.60~6.40 kW.

SEER 6.1 & SCOP 3.9 (model 6.40 kW).

Smart control of indoor fan in thermostatic stops.

Defrosting operated by pc.

Thermostat operated by pc.

Timer ON or Timer OFF / timed operation.

Autorestart in event of blackout.

"SLEEP" function (energy saving).

LED display.



Model			HKEQ 262 X HCNQ 262 X	HKEQ 352 X HCNQ 352 X	HKEQ 512 X HCNQ 512 X	HKEQ 642 X HCNQ 642 X
Type			Heat pump DC-Inverter			
Control			Remote controller			
Rated capacity (T=+35°C)	Cooling	W	2600 (1000~3100)	3500 (1050~3700)	5100 (1800~5700)	6400 (1500~7500)
Rated power input (T=+35°C)	Cooling	W	800 (290~1100)	1080 (290~1330)	1660 (500~2100)	2150 (350~2800)
Annual energy consumption	Cooling	kWh/a	149	196	293	366
Energy efficiency class seasonal	Cooling	626/2011 ¹	A++	A++	A++	A++
Energy efficiency seasonal index	Cooling	SEER ²	6.1	6.1	6.1	6.1
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.23	3.23	3.07	2.98
Design load (Pdesignc)	Cooling	kW	2.6	3.5	5.1	6.4
Rated capacity (T=+7°C)	Heating	W	2600 (1000~3800)	3500 (1050~4500)	5100 (1800~6500)	6600 (1500~8000)
Rated power input (T=+7°C)	Heating	W	800 (290~1100)	940 (290~1700)	1630 (500~2350)	1850 (300~3200)
Annual energy consumption	Heating	kWh/a	954	1276	1860	2159
Energy efficiency class (average season)	Heating	626/2011 ¹	A	A	A	A
Energy efficiency seasonal index (average season)	Heating	SCOP ²	3.8	3.8	3.8	3.9
Coefficient of Energy Efficiency Rated	Heating	COP ³	3.71	3.71	3.13	3.57
Design load (Pdesignh) @-10°C	Heating	kW	2.60	3.50	5.10	6.00
Temperature range	Heating	°C	0°C (at indoor temp. over 16°C)			
T° operational limit (Tol)	Heating	°C	-15°C			
Removed wet		Lt/h	0.8	1.0	1.5	1.6
Sound pressure level - I.U.	Hi-Me-Lo	dB(A)	38-34-26	38-34-26	42-36-28	48-44-40
Sound power level - I.U.	Hi-Me-Lo	dB(A)	50-46-38	50-46-38	54-48-40	60-56-52
Sound pressure level - O.U.	Hi-Me-Lo	dB(A)	48-44-42	50-46-44	53-46-44	56-54-52
Sound power level - O.U.	Hi-Me-Lo	dB(A)	60-56-52	62-58-54	65-58-54	68-66-62
Electrical data			220-240V~/50Hz/1P to Indoor Unit			
Power supply		V	165~265	165~265	165~265	165~265
Voltage limits		V	165~265	165~265	165~265	165~265
Power cable		Type	3+T x 1.5 mm ²	3+T x 1.5 mm ²	3+T x 2.5 mm ²	3+T x 2.5 mm ²
Current consumption	Cooling	A	3.60 (1.30~5.00)	4.90 (1.30~6.10)	7.60 (2.30~9.60)	9.80 (1.70~13.50)
Current consumption	Heating	A	3.20 (1.30~6.40)	4.30 (1.30~7.80)	7.50 (2.30~10.80)	8.50 (1.50~15.50)
Refrigerant circuit			R410A (2088)			
Refrigerant (GWP) ⁴			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Refrigerant Charge		kg	0.80	1.00	1.27	2.05
Max splitting distance		m			15	
Max splitting level difference I.U./O.U.		m			5/5	
Max splitting without additional charge		m			5	
Additional charge		gr/m		20		30
Compressor			Rotary			
Compressor	Type		43A23EEL&PJKD	43A26DEL-PJKE	45A33LPX-PEKG	ATL165UDPC9AU
	Frequency range		20~120	20~120	30~120	20~120
Fans						
Max indoor air flow		m ³ /h	650	650	850	1200
Power input		W	18	18	23	50
Max outdoor air flow		m ³ /h	2100	2000	2400	3200
Power input		W	33	33	68	115
Wiring						
Cable connection between IU and OU		Type	3+T x 1.5 mm ²	3+T x 1.5 mm ²	3+T x 2.5 mm ²	3+T x 2.5 mm ²
Refrigerant piping	Gas	mm/inches	ø9.52 (3/8")	ø9.52 (3/8")	ø12.70 (1/2")	ø15.88 (5/8")
	Liquid	mm/inches	ø6.35 (1/4")	ø6.35 (1/4")	ø6.35 (1/4")	ø9.52 (3/8")
Specifications						
Dimensions (WxHxD)	I.U.	mm	837x280x185	837x280x185	943x280x220	1088x313x202
	O.U.	mm	760x551x256	760x551x256	780x605x290	900x650x315
Net weight	I.U.	kg	10	10	11	14
	O.U.	kg	30	32	41	50

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



MONOSPLIT FLEXY LINE DC INVERTER

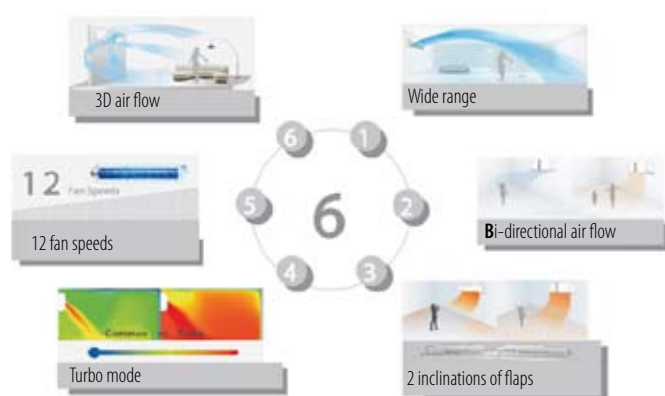
Hokkaido offers a wide range of monosplit air conditioners for comfort and well-being inside residential and light commercial environments. High performance, efficiency and versatility thanks to the models of Inverter technology, optimized for seasonal efficiency. These models also comply with ErP Directive, to satisfy the European strategic plan '20 – 20 – 20'.

Hokkaido's Monosplit Flexy Line DC Inverter is characterized by Indoor and Outdoor Units having a very low noise level: moreover, special measures have been designed for ease of use, installation and maintenance.

The whole range is characterized by high flexibility of installation: **the indoor units**, in 5 models - wall, cassette, console, duct medium static pressure, floor/ceiling - are available in capacities from 2.00 to 7.10 kW. Extremely silent, they meet the application requirements of residential and light commercial environments.

Ecological awareness, energy saving, very low noise level and modern lines complete the outline of Hokkaido Monosplit Flexy Line DC Inverter Units, ensuring comfort in air-conditioning.

AIR QUALITY



1 WIDE RANGE AIR FLOW

The flaps' design of Wall type Unit HKEU XAL, allow a wide angle of movement, increasing the air volume and air flow rate inside the room. The wide range of air flow eliminates 'dead' zones and improves the cooling and heating effects, thus ensuring comfort and well-being.

2 BI-DIRECTIONAL AIR FLOW

The density of cold air and warm air are significantly different. This function, applied to HKEU XAL, is able to differentiate the angle of air flow - depending on whether the operation mode is cooling or heating.

3 DOUBLE INCLINATION OF FLAPS

The air flaps of Wall type Unit HKEU XAL, can be set on two different inclination angles, depending on how you would like it to diffuse the air inside the room.

4 TURBO MODE

If the User would like to reach the desired temperature in the shortest time, on HKEU XAL Units of Monosplit Flex Line DC Inverter, it is possible to activate Turbo function, that maximizes the operational capacity of the appliance.

5 12 INTERNAL FAN SPEEDS

A special Inverter motor with 12 steps of speed has been designed for internal fan of Wall type Units HKEU XAL. The result is a perception of climate even more pleasant (both in Cooling and Heating modes)..

6 3D AIR FLOW

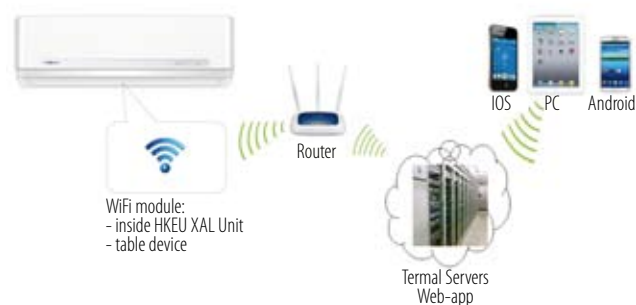
The vertical and horizontal flaps' swinging on HKEU XAL Units allows a wide angle of movement, for a homogeneous diffusion of air in every corner of the room.

BIOFILTER

The Biofilter is able to retain very small suspended particles of dust and neutralize bacteria, fungi and microbes.



WiFi CONTROL



VERY LOW NOISE LEVEL AND INCREASED AIR FLOW ON COMPACT CASSETTES

The new design of fan has allowed a sensible increase in low noise level performance: 3dB(A) less than the previous models. The increase in surface of the 4 air outlets allows the increase of air flow volume, with a consequent homogeneous diffusion of air inside the room.



MONOSPLIT FLEXY LINE DC INVERTER

NEW
Wall
HKEU 200-260-350-530-710 XAL
**SEER
A++**


5 capacities: 2.00~7.10 kW.

Energy class in Cooling mode & Heating mode: A++/A+.

Biofilter.

3D ventilation.

WiFi module (optional).

Double inclination of flaps.

Wide range of air diffusion.

Bi-directional air flow.

12 speeds of internal ventilation (fan with DC Inverter control).



Model			HKEU 200 XAL HCNI 200 XA	HKEU 260 XAL HCNI 260 XA	HKEU 350 XAL HCNI 350 XA	HKEU 530 XAL HCNI 530 XA	HKEU 710 XAL HCNI 710 XA
Type			Heat pump DC-Inverter				
Control			Remote controller				
Rated capacity (T=+35°C)	Cooling	W	2198 (703~2931)	2931 (703~3224)	3517 (733~4103)	5275 (879~6008)	7034 (1407~7766)
Rated power input (T=+35°C)	Cooling	W	625 (290~1130)	860 (105~1240)	1080 (100~1580)	1550 (130~2310)	2675 (230~2990)
Annual energy consumption	Cooling	kWh/a	110	150	175	253	402
Energy efficiency class seasonal	Cooling	626/20111	A++	A++	A++	A++	A++
Energy efficiency seasonal index	Cooling	SEER2	7.0	7.0	7.0	7.2	6.1
Coefficient of Energy Efficiency Rated	Cooling	EER3	3.51	3.40	3.25	3.40	2.62
Design load (Pdesignc)	Cooling	kW	2.2	3.0	3.5	5.2	7.0
Rated capacity (T=+7°C)	Heating	W	2345 (703~3400)	2931 (703~3517)	3810 (733~4689)	5568 (879~6301)	7620 (1612~8206)
Rated power input (T=+7°C)	Heating	W	630 (140~1220)	785 (160~1260)	1025 (180~1675)	1500 (205~2250)	2455 (330~2930)
Annual energy consumption	Heating	kWh/a	840	910	945	1540	1890
Energy efficiency class (average season)	Heating	626/20111	A+	A+	A+	A+	A+
Energy efficiency seasonal index (average season)	Heating	SCOP2	4.0	4.0	4.0	4.0	4.0
Coefficient of Energy Efficiency Rated	Heating	COP3	3.72	3.73	3.71	3.71	3.11
Design load (Pdesignh) @-7°C	Heating	kW	2.4	2.6	2.7	4.4	5.4
Temperature range	Cooling	°C	-15°C~50°C				
T° operational limit (Tol)	Heating	°C	-15°C~30°C				
Sound pressure level - Indoor Unit	H-M-L	dB(A)	36.5-30-23.5	41.5-34-26.5	38.5-32-25.5	42.5-34.5-26.5	48-40-32.5
Sound power level - Indoor Unit		dB(A)	52	52	54	60	64
Sound pressure level - Outdoor Unit	Max	dB(A)	52.5	54	54.5	55.5	60
Sound power level - Outdoor Unit		dB(A)	60	61	62	65	70
Electrical data			220-240V~/50Hz/1P all'unità esterna				
Power supply							
Power cable	Type		2+T x 1.5 mm2	2+T x 1.5 mm2	2+T x 2.5 mm2	2+T x 2.5 mm2	2+T x 2.5 mm2
Current consumption	Cooling	A	3.0(0.5~5.2)	3.8(0.5~5.7)	4.8(0.5~7.2)	6.9(0.6~10.6)	11.3(1.1~13.7)
Current consumption	Heating	A	2.8(0.6~5.6)	3.4(0.7~5.7)	4.6(0.8~7.7)	6.7(0.9~10.3)	10.4(1.5~13.4)
Refrigerant circuit							
Refrigerant (GWP) ⁴			R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
Refrigerant Charge	Kg.		0.80kg	0.85kg	0.95kg	1.65kg	1.95kg
Max splitting distance	m		25	25	30	30	50
Max splitting level difference I.U./O.U.	m		10	10	20	20	25
Max. splitting distance without additional charge	m		5	5	5	5	5
Additional charge	gr/m		15	15	15	15	30
Compressor	Tipo		Rotary				
	Modello		ASN98D22UEZ	ASN98D22UFZ	ASN98D22UFZ	DA130M1C-31FZ	DA200S2C-10MT
Fans							
Max indoor air flow	H-M-L	m³/h	455-375-290	495-420-320	525-480-335	705-515-450	970-790-620
Power input	W		20	20	20	30	58
Max outdoor air flow	m³/h		1700	1900	2000	2100	2700
Power input	W		36	40	40	40	50
Wiring							
Cable connection between IU and OU	Type		3+T x 1.5 mm2	3+T x 1.5 mm2	3+T x 2.5 mm2	3+T x 2.5 mm2	3+T x 2.5 mm2
Refrigerant piping	Gas	Inches	3/8"	3/8"	3/8"	1/2"	5/8"
	Liquid	Inches	1/4"	1/4"	1/4"	1/4"	3/8"
Specifications							
Dimensions	Indoor U.	mm	722x290x187	722x290x187	802x297x189	965x319x215	1080x335x226
(W x H x D)	Outdoor U.	mm	780x540x250	810x558x310	810x558x310	810x558x310	845x700x320
Net weight	Indoor U.	kg	7.5	7.5	8.1	10.4	12.9
	Outdoor U.	kg	27.8	30	30	36	50

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



Round flow Cassette 60x60 HTFU 350-530 XAL



2 capacities: 3.50~5.30 kW.

Compact design.

Perfect integration in the false ceiling.

Air distribution 360°.

Electric box integrated in the Unit's body.

Pre-cut for fresh air intake.

3D fan.

Setting room T° sensor compensation.

Setting fan operation parameters in Heating mode.

Setting Turbo fan speed for installation in very high ceiling.

Indoor Unit Model			HTFU 350 XAL			HTFU 530 XAL		
Outdoor Unit Model			HCKI 350 XA			HCKI 530 XA		
Type			FULL DC-Inverter			FULL DC-Inverter		
Rated capacity (T=+35°C)	Cooling	W	3517(1400~4000)			4924(1578~5700)		
Rated power input (T=+35°C)	Cooling	W	1099(300~2020)			1500(300~2150)		
Annual energy consumption	Cooling	kWh/a	240			287		
Energy efficiency class seasonal	Cooling	626/2011 ¹	A			A++		
Energy efficiency seasonal index	Cooling	SEER ²	5.1			6.1		
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.20			3.28		
Design load (Pdesignc)	Cooling	kW	3.50			5.00		
Rated capacity (T=+7°C)	Heating	W	3517(1400~4250)			5568(1607~6350)		
Rated power input (T=+7°C)	Heating	W	1034(290~2010)			1500(290~2100)		
Annual energy consumption	Heating	kWh/a	1032			1805		
Energy efficiency class (average season)	Heating	626/2011 ¹	A			A		
Energy efficiency seasonal index (average season)	Heating	SCOP ²	3.80			3.8		
Coefficient of Energy Efficiency Rated	Heating	COP ³	3.40			3.71		
Design load (Pdesignh)	Heating	kW	2.80			4.80		
T° operational limit (Tol)	Heating	°C	-15			-15		
Power supply		Ph-V-Hz	1-220~240V-50HZ			1-220~240V-50HZ		
Power input (MAX)		I.U. ~ O.U.	0.U.			I.U. + O.U.		
		A	10			11.5		
Cable connection I.U./ O.U. (ground wire excluded)		n°	3			2 shielded cables		
Refrigerant circuit								
Diameter of refrigerant pipings liq side/gas side		mm/inches	ø 6.35(1/4')/ø 9.52(3/8')			ø 6.35(1/4')/ø 12.7(1/2')		
Max. splitting distance I.U./O.U.		m	25			30		
Max. splitting level difference I.U./O.U.		m	10			20		
Refrigerant (GWP) ⁴			R410A(2088)			R410A(2088)		
Quantity of refrigerant precharge		Kg	1.15			1.80		
Max splitting distance without additional refrigerant charge		m	5			5		
Additional refrigerant charge		g/m	15			15		
Temperature range in Cooling mode		°C	-15°C ~ +50°C			-15°C ~ +50°C		
Temperature range in Heating mode		°C	-15°C ~ +24°C			-15°C ~ +24°C		
Indoor Units' specifications								
Indoor Unit	Dimensions (WxHxD)	mm	570	260	570	570	260	570
	Net weight	Kg		16			16.1	
Sound pressure level - Indoor Unit	H-M-L	dB(A)	45	42	39	45	43	41
Sound power level - Indoor Unit		dB(A)		53			59	
Air flow (Hi/Me/Lo)		m³/h	650	550	460	680	560	500
Diameter of drain hose		mm		25			25	
Remote controller (standard supplied)		tipo	IR Remote Controller			IR Remote Controller		
Outdoor Units' specifications								
Outdoor Unit	Dimensions (WxHxD)	mm	810	558	310	810	558	310
	Net weight	Kg		30			36	
Sound pressure level - Outdoor Unit		dB(A)		57			58	
Sound power level - Outdoor Unit		dB(A)		64			65	
Max air flow		m³/h		2000			2100	
Accessories								
Panel			TFP 200 XA			TFP 200 XA		
Data of panel	Dimensions (WxHxD)	mm	647	50	647	647	50	647
	Net weight	Kg		2.5			2.5	
Optionals								
Wired controller							SI	
Centralized controller							SI	
Weekly timer							SI	

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

MONOSPLIT FLEXY LINE DC INVERTER

NEW
Slim Cassette 84x84
HTBU 710 XAL


1 capacity: 7.10 kW.

Prearrangement for fresh air intake

Condensate drain pump.

Electric box integrated in the Unit's body.

Panel with air diffusion 360°; wide range of flaps' swinging up to 40°.

Compact dimensions: only 205 mm in height; Unit can be perfectly integrated in narrow false ceiling

Easy installation & maintenance.



Indoor Unit Model			HTBU 710 XAL		
Outdoor Unit Model			HCKI 710 XA		
Type			FULL DC-Inverter		
Rated capacity (T=+35°C)	Cooling	W	7034(1899~7830)		
Rated power input (T=+35°C)	Cooling	W	2170(380~2620)		
Annual energy consumption	Cooling	kWh/a	438		
Energy efficiency class seasonal	Cooling	626/2011 ¹	A+		
Energy efficiency seasonal index	Cooling	SEER ²	5.6		
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.24		
Design load (Pdesignc)	Cooling	kW	7.00		
Rated capacity (T=+7°C)	Heating	W	7620(1987~8473)		
Rated power input (T=+7°C)	Heating	W	1980(370~2580)		
Annual energy consumption	Heating	kWh/a	1953		
Energy efficiency class (average season)	Heating	626/2011 ¹	A		
Energy efficiency seasonal index (average season)	Heating	SCOP ²	3.8		
Coefficient of Energy Efficiency Rated	Heating	COP ³	3.85		
Design load (Pdesignh)	Heating	kW	5.30		
T° operational limit (Tol)	Heating	°C	-15		
Power supply		Ph-V-Hz	1-220~240V-50HZ		
		I.U. ~ O.U.	I.U. + O.U.		
Current consumption (MAX)		A	16.5		
Cable connection I.U./ O.U. (ground wire excluded)		n°	2 shielded cables		
Refrigerant circuit					
Diameter of refrigerant pipings liq side/gas side		mm/inches	ø9.52(3/8")/ø 15.88(5/8')		
Max. splitting distance I.U./O.U.		m	50		
Max. splitting level difference I.U./O.U.		m	25		
Refrigerant (GWP) ⁴			R410A(2088)		
Quantity of refrigerant precharge		Kg	1.95		
Max splitting distance without refrigerant additional charge		m	5		
Refrigerant additional charge		g/m	30		
Temperature range in Cooling mode		°C	-15°C ~ +50°C		
Temperature range in Heating mode		°C	-15°C ~ +24°C		
Indoor Units' specifications					
Indoor Unit	Dimensions (WxHxD)	mm	840	245	840
	Net weight	Kg		24	
Sound pressure level - Indoor Unit	H-M-L	dB(A)	49	46	43
Sound power level - Indoor Unit		dB(A)		63	
Air flow (Hi/Me/Lo)		m³/h	1520	1350	1200
Drain hose diameter		mm		32	
Remote controller (standard supplied)		type		IR Remote Controller	
Outdoor Units' specifications					
Outdoor Unit	Dimensions (WxHxD)	mm	845	700	320
	Net weight	Kg		50	
Sound pressure level - Outdoor Unit		dB(A)		59	
Sound power level - Outdoor Unit		dB(A)		69	
Max air flow		m³/h		2700	
Accessories					
Panel				TBP 716 X	
Data of panel	Dimensions (WxHxD)	mm	950	55	950
	Net weight	Kg		5	
Optionals					
LIFT panel				TBP-LF 716 X	
Wired controller				YES	
Wired controller (with Lift panel)				DTW IHXR Touch	
Centralized controller				YES	
Weekly timer				YES	

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



MONOSPLIT FLEXY LINE DC INVERTER

Duct medium static pressure
HUCU 350-530-710 XAL



3 capacities: 3.50~7.10 kW.

Compact design.

Possibility of air intake from the rear or from the bottom.

Pre-cut for fresh air intake.

Satellizable electric box; it can be separated from the unit body.

Drain pump included.

Terminal for On/Off from remote control and remote alarm.

Setting room T° sensor compensation.

Setting fan operation parameters in Heating mode.

Infrared remote controller.

Indoor Unit Model			HUCU 350 XAL			HUCU 530 XAL			HUCU 710 XAL		
Outdoor Unit Model			HCKI 350 XA			HCKI 530 XA			HCKI 710 XA		
Type			FULL DC-Inverter			FULL DC-Inverter			FULL DC-Inverter		
Rated capacity (T=+35℃)	Cooling	W	3517(1400~4000)			4982(1578~5700)			7034(1899~7880)		
Rated power input (T=+35℃)	Cooling	W	1099(300~2020)			1540(300~1910)			2170(370~2710)		
Annual energy consumption	Cooling	kWh/a	240			287			438		
Energy efficiency class seasonal	Cooling	626/2011 ¹	A			A++			A+		
Energy efficiency seasonal index	Cooling	SEER ²	5.1			6.1			5.6		
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.20			3.23			3.24		
Design load (Pdesignc)	Cooling	kW	3.50			5.00			7.00		
Rated capacity (T=+7℃)	Heating	W	3517(1400~4350)			5568(1607~6661)			7620(1987~8531)		
Rated power input (T=+7℃)	Heating	W	1055(290~2010)			1500(290~2010)			2000(370~2610)		
Annual energy consumption	Heating	kWh/a	958			1805			2026		
Energy efficiency class (average season)	Heating	626/2011 ¹	A			A			A		
Energy efficiency seasonal index (average season)	Heating	SCOP ²	3.8			3.8			3.8		
Coefficient of Energy Efficiency Rated	Heating	COP ³	3.33			3.71			3.81		
Design load (Pdesignh)	Heating	kW	2.60			4.80			5.40		
T° operational limit (Tol)	Heating	℃	-15			-15			-15		
Power supply		Ph-V-Hz	1-220~240V-50HZ			1-220~240V-50HZ			1-220~240V-50HZ		
		I.U. ~ O.U.	I.U. + O.U.			I.U. + O.U.			I.U. + O.U.		
Current consumption (MAX)		A	10			11.5			16.5		
Cable connection I.U./ O.U. (ground wire excluded)		n°	3			2 shielded cables			2 shielded cables		
Refrigerant circuit											
Diameter of refrigerant pipings liquid side/gas side		inches	6.35(1/4")/ø 9.52(3/8")			ø 6.35(1/4")/ø 12.7(1/2")			ø 9.52(3/8")/ø 15.88(5/8")		
Max. splitting distance I.U./O.U.		m	25			30			50		
Max. splitting level difference I.U./O.U.		m	10			20			25		
Refrigerant (GWP) ⁴			R410A(2088)			R410A(2088)			R410A(2088)		
Quantity of refrigerant precharge		Kg	1.15			1.65			1.95		
Max splitting distance without additional refrigerant charge		m	5			5			5		
Refrigerant charge		g/m	15			15			30		
Temperature range in Cooling mode		℃	-15℃ ~ +50℃			-15℃ ~ +50℃			-15℃ ~ +50℃		
Temperature range in Heating mode		℃	-15℃ ~ +24℃			-15℃ ~ +24℃			-15℃ ~ +24℃		
Indoor Units' specifications											
Indoor Unit	Dimensions (WxHxD)	mm	700	210	635	920	210	635	920	270	635
	Net weight	Kg	18			23			28		
Sound pressure level - Indoor Unit	H-M-L	dB(A)	35	31	28	38	34	30	45	41	37
Sound power level - Indoor Unit		dB(A)	52			54			62		
Air flow (Hi/Me/Lo)		m³/h	680	560	465	1015	860	710	1510	1280	1090
Static pressure of fan (std / max)		Pa	25/40			25/60			25/80		
Air outlet flange	Dimensions (WxHxD)	mm	493x119			713x119			713x179		
Drain hose diameter		mm	25			25			25		
Remote controller (standard supplied)		type	IR Remote Controller			IR Remote Controller			IR Remote Controller		
Outdoor Units' specifications											
Outdoor Unit	Dimensions (WxHxD)	mm	810	558	310	810	558	310	845	700	320
	Net weight	Kg	30			36			50		
Sound pressure level - Outdoor Unit		dB(A)	57			58			59		
Sound power level - Outdoor Unit		dB(A)	64			65			69		
Max air flow		m³/h	2000			2100			2700		
Optionals											
Wired controller			YES								
Centralized controller			YES								
Weekly timer			YES								

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

MONOSPLIT FLEXY LINE DC INVERTER

NEW

Console

HFIU 350 XAL



1 capacity: 3.50 kW.

Only 210 mm deep.

Double mode of air distribution; the unit is particularly suitable for primary heating.

Anti-formaldehyde filter.

5 fan speeds.

Setting of room T° sensor compensation.

Setting of fan operating parameters in Heating mode.



Indoor Unit Model			HFIU 350 XAL		
Outdoor Unit Model			HCKI 350 XA		
Type			FULL DC-Inverter		
Rated capacity (T=+35°C)	Cooling	W	3517(1400~4000)		
Rated power input (T=+35°C)	Cooling	W	1099(300~2020)		
Annual energy consumption	Cooling	kWh/a	240		
Energy efficiency class seasonal	Cooling	626/2011 ¹	A		
Energy efficiency seasonal index	Cooling	SEER ²	5,1		
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3,20		
Design load (Pdesignc)	Cooling	kW	3,50		
Rated capacity (T=+7°C)	Heating	W	3517(1400~4550)		
Rated power input (T=+7°C)	Heating	W	1034(290~1980)		
Annual energy consumption	Heating	kWh/a	958		
Energy efficiency class (average season)	Heating	626/2011 ¹	A		
Energy efficiency seasonal index (average season)	Heating	SCOP ²	3,80		
Coefficient of Energy Efficiency Rated	Heating	COP ³	3,40		
Design load (Pdesignh)	Heating	kW	2,80		
T° operational limit (Tol)	Heating	°C	-15		
Power supply		Ph-V-Hz	1-220~240V-50HZ		
		I.U. ~ O.U.	U.E.		
Current consumption (MAX)		A	10		
Cable connection I.U./ O.U.		n°	3		
Refrigerant circuit					
Diameter of refrigerant pipings liquid side/gas side	mm/inches		ø 6.35(1/4")/ø 9.52(3/8")		
Max. splitting distance I.U./O.U.	m		25		
Max. splitting level difference I.U./O.U.	m		10		
Refrigerant (GWP) ⁴			R410A(2088)		
Quantity of refrigerant precharge	Kg		1.15		
Max splitting distance without additional charge	m		5		
Additional refrigerant charge	g/m		15		
Operation range in Cooling mode	°C		-15°C ~ +50°C		
Operation range in Heating mode	°C		-15°C ~ +24°C		
Indoor Units' Specifications					
Indoor Unit	Dimensions (WxHxD)	mm	700	600	210
	Net weight	Kg		15	
Sound pressure level - Indoor Unit	H-M-L	dB(A)	46	40	34
Sound power level - Indoor Unit		dB(A)		58	
Air flow (Hi/Me/Lo-U/Low)		m³/h	710	680	580-450
Drain hose diameter		mm		16	
Remote controller (standard supplied)		type		IR Remote Controller	
Outdoor Units' Specifications					
Outdoor Unit	Dimensions (WxHxD)	mm	810	558	310
	Net weight	Kg		30	
Sound pressure level - Outdoor Unit		dB(A)		57	
Sound power level - Outdoor Unit		dB(A)		64	
Max air flow		m³/h		2000	
Optionals					
Wired controller				YES	
Centralized controller				-	
Weekly timer				-	

¹ Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

² Commission Delegated Regulation EU N. 206/2012 - - Value measured according to EN14825.

³ Value measured according to EN14511.

⁴ Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



Floor/ceiling

HSFU 530-710 XAL



MONOSPLIT FLEXY LINE DC INVERTER

2 capacities: 5.30~7.10 kW.

Simple & elegant design.

Setting for different types of installation (floor or ceiling).

Vertical swinging of air outlet flaps, both with floor type installation (A), both with ceiling type installation (B) and wide angle of air distribution (C).

Terminal for remote on/off and remote alarms.

Setting of room T° sensor compensation.

Setting of fan operation parameters in Heating mode.



Indoor Unit Model			HSFU 530 XAL			HSFU 710 XAL		
Outdoor Unit Model			HCKI 530 XA			HCKI 710 XA		
Type			FULL DC-Inverter			FULL DC-Inverter		
Rated capacity (T=+35°C)	Cooling	W	4982(1578~6077)			7034(1899~7830)		
Rated power input (T=+35°C)	Cooling	W	1540(300~2120)			2170(380~2710)		
Annual energy consumption	Cooling	kWh/a	287			438		
Energy efficiency class seasonal	Cooling	626/2011 ¹	A++			A+		
Energy efficiency seasonal index	Cooling	SEER ₂	6.1			5.6		
Coefficient of Energy Efficiency Rated	Cooling	EER ₃	3.23			3.24		
Design load (Pdesignc)	Cooling	kW	5.00			7.00		
Rated capacity (T=+7°C)	Heating	W	5568(1607~6661)			7620(1987~8502)		
Rated power input (T=+7°C)	Heating	W	1500(280~2000)			1980(370~2620)		
Annual energy consumption	Heating	kWh/a	1805			1989		
Energy efficiency class (average season)	Heating	626/2011	A			A		
Energy efficiency seasonal index (average season)	Heating	SCOP ₂	3.8			3.8		
Coefficient of Energy Efficiency Rated	Heating	COP ₃	3.71			3.85		
Design load (Pdesignh)	Heating	kW	4.80			5.50		
T° operational limit (Tol)	Heating	°C	-15			-15		
Power supply		Ph-V-Hz	1-220~240V-50HZ			1-220~240V-50HZ		
Power input (MAX)		I.U. ~ O.U.	11.5			16.5		
Cable connection I.U./ O.U. (ground wire excluded)		n°	2 shielded cables			2 shielded cables		
Refrigerant circuit								
Diameter of refrigerant pipings liquid side/gas side		mm/inches	ø 6.35(1/4")/ø 12.7(1/2")			ø 9.52(3/8")/ø 15.88(5/8")		
Max. splitting distance I.U./O.U.		m	30			50		
Max. splitting level difference I.U./O.U.		m	20			25		
Refrigerant (GWP) ⁴			R410A(2088)			R410A(2088)		
Quantity of refrigerant precharge		Kg	1.65			1.95		
Max splitting distance without additional refrigerant charge		m	5			5		
Additional refrigerant charge		g/m	15			30		
Operation range in Cooling mode		°C	-15°C ~ +50°C			-15°C ~ +50°C		
Operation range in Heating mode		°C	-15°C ~ +24°C			-15°C ~ +24°C		
Indoor Units' Specifications								
Indoor Unit	Dimensions (WxHxD)	mm	1068	675	235	1068	675	235
	Net weight	Kg	25			25		
Sound pressure level - Indoor Unit	H-M-L	dB(A)	48	43	38	52	46	42
Sound power level - Indoor Unit		dB(A)	58			64		
Air flow (Hi/Me/Lo)		m³/h	900	750	600	1150	1020	820
Drain hose diameter		mm	25			25		
Remote controller (standard supplied)		tipo	IR Remote Controller			IR Remote Controller		
Outdoor Units' Specifications								
Outdoor Units	Dimensions (WxHxD)	mm	810	558	310	845	700	320
	Net weight	Kg	36			50		
Sound pressure level - Outdoor Unit		dB(A)	58			59		
Sound power level - Outdoor Unit		dB(A)	65			69		
Max air flow		m³/h	2100			2700		
Optionals								
Wired controller						YES		
Centralized controller						YES		
Weekly timer						YES		

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

4 Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



MULTISPLIT PERFORMANCE LINE DC INVERTER

COOLING ONLY

Multisplit Performance Line DC Inverter is the series proposed by Hokkaido, for the air-conditioning of 2 rooms, ensuring low energy consumptions and easy installation. Wall type units, in 3 capacities, are extremely silent and provided with SLEEP function. They ensure the minimum energy consumption.

OUTDOOR UNIT

Sine Wave Inverter Technology: 180°



HCKTM 401 Q2

Model			HCKTM 401 Q2
Type			DC Inverter (cooling only)
Max. indoor units that can be connected			2
Rated capacity (T=35°C)	Cooling	kW	4.10 (1.05~4.69)
Rated power input (T=35°C)	Cooling	kW	1.270 (0.28~1.65)
Annual energy consumption	Cooling	kWh/a	281
Energy efficiency class seasonal	Cooling	626/2011 ¹	A
Energy efficiency seasonal index	Cooling	SEER ²	5.1
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.23
Design load (Pdesignc)	Cooling	kW	4.10
Power supply		Ph-V-Hz	1-220~230V-50Hz
Rated power input		I.U. ~ O.U.	O.U. & I.U. (separately)
Cable connection I.U./ O.U. (ground wire excluded)		A	5.7
		n°	2 (terminal block indoor units' side & outdoor unit side)
Refrigerant circuit			
Diameter of refrigerant pipings liquid side/gas side	mm/inches		2 x ø6.35 (1/4") - 2 x ø9.52 (3/8")
Max splitting distance	m		24
MAX length of a single refrigerant line	m		15
Max splitting level difference O.U./I.U. - I.U./ O.U.	m		5/5
Quantity of refrigerant precharge	kg		1.5
Max splitting distance without additional refrigerant charge (each I.U.)	m		5
Additional refrigerant charge	Liquid pipe ø1/4"	g/m	15
Operation range in Cooling mode		°C	0° C ~ +48° C
Product's Specifications			
Outdoor Unit	Dimensions (WxHxD)	mm	820x605x300
	Net weight	kg	44
Max sound pressure level at 1 m		dB(A)	60
Max sound pressure level		dB(A)	65
Max air flow		m ³ /h	2800

Outdoor Unit Model	Indoor units' combinations	Cooling									
		Unit		Capacity			Consumption			EER/SEER	
		A	B	Min	Std.	Max	Min	Std.	Max	EER	SEER
HCKTM 401 Q2	201 + 201	2050	2050	1050	4100	4400	280	1188	1450	3,45	5,1
	201 + 261	2000	2300	1050	4300	4500	280	1228	1650	3,5	5,2
	261 + 261	2200	2200	1050	4400	4690	280	1257	1650	3,5	5,2
	201 + 351	1800	2600	1050	4400	4690	280	1257	1650	3,5	5,2
	261 + 351	2000	2400	1050	4400	4690	280	1275	1650	3,45	5,1

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

MULTISPLIT PERFORMANCE LINE DC INVERTER

COOLING ONLY

INDOOR UNIT

Wall

HKETM 201-261-351 Q

3 capacities: 2.05~3.50 kW.

Low noise level: only 29 dB(A) for the Model 2.05 kW.

Thermostat operated by pc.

Timer ON or Timer OFF / timed operation.

Autorestart in event of blackout.

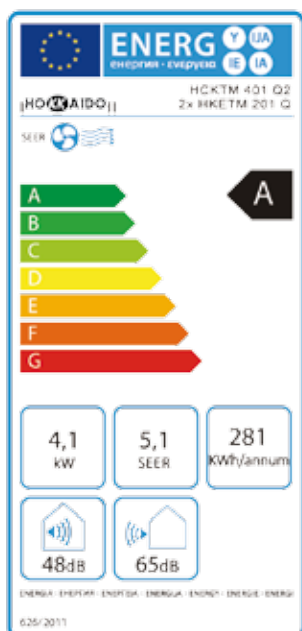
"SLEEP" function (energy saving).

LED display.



Model			HKETM 201 Q	HKETM 261 Q	HKETM 351 Q
Type			DC Inverter (cooling only)	DC Inverter (cooling only)	DC Inverter (cooling only)
Capacity	Rafr.	kW	2.05	2.64	3.50
Electrical data					
Power supply	Ph-V-Hz		1-220~230V-50HZ	1-220~230V-50HZ	1-220~230V-50HZ
	I.U. ~ O.U.		O.U.	O.U.	O.U.
Connection cable I.U./ O.U. (ground not included)	n°		2 (terminal block I.U. side & O.U. side)	2 (terminal block I.U. side & O.U. side)	2 (terminal block I.U. side & O.U. side)
Refrigerant circuit					
Diameter of refrigerant pipings liquid side/gas side	mm/inches		ø6.35 (1/4") - ø9.52 (3/8")	ø6.35 (1/4") - ø9.52 (3/8")	ø6.35 (1/4") - ø9.52 (3/8")
Product's Specifications					
Indoor Unit	Dimensions (WxHxD)	mm	770x240x180	770x240x180	770x240x180
	Net weight	kg	8	8	8
Sound pressure level at 1 m	Hi-Me-Lo	dB(A)	40-36-29	41-38-31	43-40-31
Sound power level		dB(A)	48	48	48
Air flow	Hi-Me-Lo	m³/h	450-400-350	470-420-380	500-450-400
Drain hose diameter		mm	16	16	16
Remote controller (standard supplied)	Type		IR Remote Controller	IR Remote Controller	IR Remote Controller
Optionals					
Wired controller					

BEST COMBINATION





MULTISPLIT FLEXY LINE DC INVERTER

Multisplit Flexy Line DC Inverter is Hokkaido multisplit system that represents the ideal solution for the air-conditioning of several rooms. In fact, with only one outdoor unit it is possible to air-condition up to 5 rooms, combining compact and elegant indoor units that integrate well into any home decor.

All the range is characterized by a high installation flexibility: **the indoor units**, in 5 models - wall, cassette, console, duct medium static pressure, floor/ceiling - are available in the capacities from 2.00 to 7.10 kW. Extremely silent, they meet the application requirements of residential and light commercial environments.

All the outdoor units are equipped with **Sine Wave Inverter Technology 180°** which involves a significant reduction of noise levels, with consequent reduction of vibrations, and a remarkable increase in energy efficiency at low frequencies.

OUTDOOR UNITS



Model			HCKU 470 X2			HCKU 530 X2			HCKU 600 X3			HCKU 760 X3			HCKU 810 X4			HCKU 1060 X4			HCKU 1060 X5			HCKU 1200 X5													
Type			DC Inverter			DC Inverter			DC Inverter			DC Inverter			DC Inverter			DC Inverter			DC Inverter			DC Inverter													
Max. connectable indoor units		n°	2			2			3			3			4			4			5			5													
Rated capacity (T=35°C)		kW	4.80	(1.54	6.20)	5.28	(1.40	6.60)	6.45	(1.56	8.93)	7.62	(1.38	9.80)	8.21	(1.38	10.10)	10.55	(1.27	13.80)	10.55	(1.30	17.23)	12.31	(1.30	17.23)											
Rated power input (T=35°C)		kW	1.480	(0.61	1.83)	1.630	(0.41	2.09)	1.970	(0.53	3.03)	2.520	(0.48	3.06)	2.690	(0.58	3.75)	3.450	(0.55	5.82)	3.550	(0.55	5.82)	4.080	(0.55	5.82)											
Annual energy consumption		kWh/a	240			281			350			392			448			663			608																
Energy efficiency class seasonal	626/20111		A++			A++			A++			A++			A++			A+			A++																
Energy efficiency seasonal index		SEER2	7.0			6.6			6.4			6.6			6.1			56.0			6.1																
Coefficient of Energy Efficiency Rated		EER3	3.24			3.24			3.27			3.02			3.05			3.06			2.97			3.02													
Design load (Pdesignc)		kW	4.80			5.3			6.4			7.4			8.2			10.6			10.6																
Rated capacity (T=7°C)		kW	4.75	(1.59	5.7)	5.86	(1.30	6.40)	6.57	(1.67	9.32)	6.68	(1.47	10.50)	9.03	(1.59	12.30)	11.87	(1.59	14.40)	11.14	(1.59	16.74)	12.30	(1.59	17.74)											
Rated power input (T=7°C)		kW	1.230	(0.45	1.75)	1.580	(0.37	1.80)	1.780	(0.49	2.80)	1.880	(0.46	2.75)	2.430	(0.47	3.71)	3.500	(0.61	4.23)	3.280	(0.61	5.00)	3.520	(0.61	5.50)											
Annual energy consumption		kWh/a	1435			1658			1960			1960			2947			3758			3684																
Energy efficiency class (average season)	626/20111		A+			A			A+			A+			A			A			A																
Energy efficiency seasonal index (average season)		SCOP2	4.0			3.8			4.0			4.0			3.8			3.8			3.8																
Coefficient of Energy Efficiency Rated		COP3	3.86			3.71			3.69			3.55			3.72			3.39			3.40			3.49													
Design load (Pdesignh)		kW	4.10			4.5			5.6			5.6			8.0			10.2			10.0																
T° operational limit(Tol)		°C	-15			-15			-15			-15			-15			-15			-15																
Power supply		Ph-V-Hz	1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ													
		I.U. ~ O.U.	O.U.			O.U.			O.U.			O.U.			O.U.			O.U.			O.U.			O.U.													
Rated current consumption (cooling - heating)		A	6.50 - 5.40			8.34 - 6.25			8.83 - 7.98			11.18 - 8.34			11.93 - 10.78			19.78 - 15.82			16.6 - 14.40			18.1 - 15.62													
Cable connection I.U./ O.U. (ground wire excluded)		n°	3 (terminal block I.U. side & O.U. side)																																		
Refrigerant circuit																																					
Diameter of refrigerant pipings liquid side/gas side	mm/inches	2 x Ø 6.35(1/4")/2 x Ø 9.52(3/8")						3 x Ø 6.35(1/4")/3 x Ø 9.52(3/8")						4 x Ø 6.35(1/4")/4 x Ø 9.52(3/8")						5 x Ø 6.35(1/4")/5 x Ø 9.52(3/8")																	
Adapter of refrigerant pipings 9.53 -> 12.7	n.	-						1						1						2						2											
Max splitting distance	m	30						30						45						45						60						75					
MAX length of one refrigerant line	m	20						20						25						25						30						30					
Max splitting level difference O.U./I.U. - I.U./O.U.	m	10/15						10/15						10/15						10/15						10/15						10/15					
Quantity of refrigerant precharge (R410A GWP 2088)	Kg	1,7						2						2,1						2,1						2,4						2,7					
Max splitting distance without additional charge (each IU)	m	5						5						5						5						5						5					
Additional refrigerant charge Liquid pipe Ø 1/4"	g/m	15						15						15						15						15						15					
Operation range in Cooling mode	°C	-15°C ~ +50°C																																			
Operation range in Heating mode	°C	-15°C ~ +24°C																																			
Product's Specifications																																					
Outdoor Unit	Dimensions (WxHxD)	mm	810	558	310	810	558	310	845	700	320	845	700	320	900	860	315	990	965	345	990	965	345	990	965	345											
	Net weight	Kg	34,5			36,5			50			50			65			78			80			83,5													
Max sound pressure level at 1 m		dB(A)	56			56			58			58			61			64			63			66													
Max sound pressure level		dB(A)	65			65			64			68			70			66			68			72													
Max air flow		m³/h	2100			2100			2700			2700			3800			5500			5500			5400													

Energy efficiency values refer to the following combinations: HCKU 470 X2 + 2xHTFU 200 XA -- HCKU 530 X2 + 2xHTFU 260 XA -- HCKU 600 X3 + 3xHTFU 200 XA -- HCKU 760 X3 + 3xHTFU 260 XA -- HCKU 810 X4 + 4xHTFU 200 XA -- HCKU 1060 X4 + 4xHTFU 260 XA -- HCKU 1060 X5 + 5xHTFU 200 XA -- HCKU 1200 X5 + 5xHTFU 260 XA .

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 -- Value measured according to EN14825.

3 Value measured according to EN14511.



MULTISPLIT FLEXY LINE DC INVERTER

Round flow Cassette 60x60

HTFU 200-260 XA
HTFU 350-530 XAL



4 capacities: 2.00~5.30 kW.

Compact design.

Perfect integration in the false ceiling.

Air distribution 360°.

Electrical box built-in the unit's body.

Pre-cut for fresh air intake.

3D fan.

Setting of room T° sensor compensation.

Setting of fan operation parameters in Heating mode.

Setting of Turbo air speed for installation in very high ceilings.

Model			HTFU 200 XA			HTFU 260 XA			HTFU 350 XAL			HTFU 530 XAL		
Type			DC Inverter			DC Inverter			DC Inverter			DC Inverter		
Capacity	Raffr.	kW	2.05			2.64			3.52			4.92		
	Risc.	kW	2.35			2.93			3.52			5.57		
Electrical data														
Power supply		Ph-V-Hz	1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ			1-220~230V-50HZ		
		I.U. ~ O.U.	O.U.			O.U.			O.U.			U,E,		
Cable connection I.U./ O.U. (ground wire excluded)		n°	3 (terminal block I.U. side - O.U. side)											
Refrigerant circuit														
Diameter of refrigerant pipings liquid side/gas side		mm/inches	ø 6.35(1/4')/ø 9.52(3/8')			ø 6.35(1/4')/ø 9.52(3/8')			ø 6.35(1/4')/ø 9.52(3/8')			ø 6,35(1/4')/ø 12,70(1/2')		
Product's Specifications														
Indoor unit	Dimensions (WxHxD)	mm	570	260	570	570	260	570	570	260	570	570	260	570
	Net weight	Kg	14.5			14.5			14.5			16,1		
Sound pressure level at 1 m (Hi/Mi/Lo)		dB(A)	41	37	34	43	41	36	45	42	39	45	43	41
Sound power level		dB(A)	53			53			53			59		
Air flow (Hi/Me/Lo)		m3/h	650	550	460	650	550	460	650	550	460	680	560	500
Drain hose diameter		mm	25			25			25			25		
Remote controller (standard supplied)		type	IR Remote Controller			IR Remote Controller			IR Remote Controller			Telecomando R,I,		
Panel			TFP 200 XA			TFP 200 XA			TFP 200 XA			TFP 200 XA		
Panel data	Dimensions (WxHxD)	mm	647	50	647	647	50	647	647	50	647	647	50	647
	Net weight	Kg	2.5			2.5			2.5			2,5		
Optionals														
Wired controller			SI											

Slim Cassette 84x84

HTBU 710 XAL



1 capacity: 7.10 kW.

Pre-arrangement for external air intake; condensate drain pump; electric box inside the unit's body.

Panel with air diffusion 360°; wide range of flaps' swinging up to 40°.

Compact dimensions: only 205 mm in height, perfectly integrated into narrow false ceilings.

Easy installation & maintenance.



Model			HTBU 710 XAL		
Type			DC Inverter		
Capacity	Cooling	kW	7.03		
	Heating	kW	7.62		
Electrical data					
Power supply		Ph-V-Hz	1-220~230V-50HZ		
		I.U. ~ O.U.	O.U.		
Cable connection I.U./ O.U. (ground wire excluded)		n°	3 (terminal block I.U. side - O.U. side)		
Refrigerant circuit					
Diameter of refrigerant pipings liquid side/gas side		mm/inches	ø 9.52(3/8'')/ø 15.90(5/8')		
Product's Specifications					
Indoor unit	Dimensions (WxHxD)	mm	840	245	840
	Net weight	Kg	24		
Sound pressure level at 1 m (Hi/Mi/Lo)		dB(A)	49	46	43
Sound power level		dB(A)	63		
Air flow (Hi/Me/Lo)		m³/h	1520	1350	1200
Drain hose diameter		mm	25		
Remote controller (standard supplied)		type	IR Remote Controller		
Panel			TFP 200 XA		
Panel data	Dimensions (WxHxD)	mm	950	55	950
	Net weight	Kg	4.2		
Optionals					
Wired controller			yes		

NEW

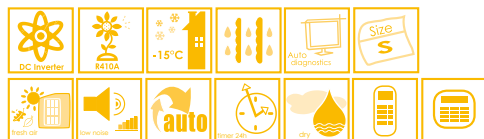
Setting of fan operation parameters in Heating mode.



YES



IR remote controller.



YES



Floor/ceiling

HSFU 530-710 XAL



MULTISPLIT FLEXY LINE DC INVERTER

2 capacities: 5.30~7.10 kW.

Simple & elegant design.

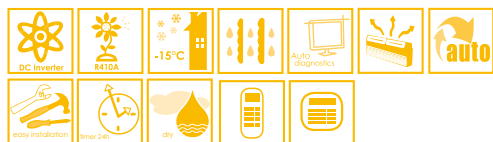
Setting for different type of installation (floor or ceiling).

Vertical swinging of air outlet flaps, both with floor type installation (A), and ceiling type installation (B) with wide angle of air distribution (C).

Terminal for remote On-Off and remote alarms.

Setting of room T° sensor compensation.

Setting of fan operation parameters in Heating mode.



Model			HSFU 530 XAL			HSFU 710 XAL		
Type			DC Inverter			DC Inverter		
Capacity	Cooling	kW	4.98			7.03		
	Heating	kW	5.57			7.62		
Electrical data								
Power supply		Ph-V-Hz	1-220~230V-50HZ			1-220~230V-50HZ		
		I.U. ~ O.U.	O.U.			O.U.		
Cable connection I.U./ O.U. (ground wire excluded)		n°	3 (terminal block I.U. side - O.U. side)					
Refrigerant circuit								
Diameter of refrigerant pipings liquid side/gas side		mm/inches	ø 6.35(1/4")/ø 12.70(1/2")			ø 9.52(3/8")/ø 15.90(5/8")		
Product's Specifications								
Indoor unit	Dimensions (WxHxD)	mm	1068	675	235	1068	675	235
	Net weight	Kg	25			25		
Sound pressure level at 1 m (Hi/Mi/Lo)		dB(A)	48	43	38	52	46	42
Sound power level		dB(A)	58			64		
Air flow (Hi/Me/Lo)		m³/h	900	750	600	1510	1020	820
Drain hose diameter		mm	25			25		
Remote controller (standard supplied)		type	IR Remote Controller			IR Remote Controller		
Optionals								
Wired controller			SI					





PORTABLE AIR CONDITIONER

COOLBOX



THE AIR CONDITIONER IN TWO GEARS: IT COOLS IN SUMMER AND WARMS IN WINTER (WITH ELECTRIC HEATER)



HMCI 125 F-EH

COOLBOX is Hokkaido portable air conditioner. COOLBOX has A energy class in Cooling mode. Its dimensions are reduced, and it is easy to move it, thanks to its wheels. COOLBOX is also suitable for rooms of medium size.

Modern design, perfect for all kinds of furniture.

It cools in summer and warms in winter (with electric heater).

5 fan speeds in Cooling mode.

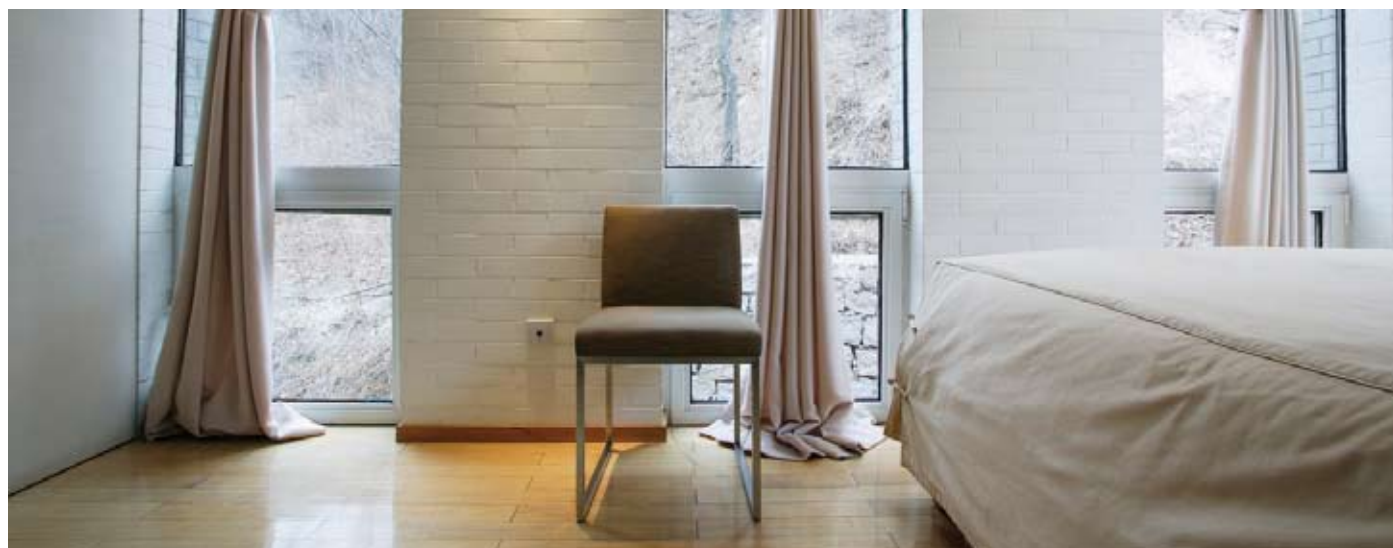
Front control panel equipped with display and push-button panel with high sensitivity: possibility to display and adjust all operation parameters.

Automatic lock of operation functions in case of malfunctions.

Extensible tube for air expulsion, connectable to the window kit for night use.

IR remote controller.

Model			HMCI 125 F-EH
Power supply		Ph-V-Hz	1-220~240-50
Capacity	Cooling	kW	3.55
Power input	Cooling	kW	1.36
EER			2.61
Energy class			A
Annual consumption (500h/year)		kW/h	680
Electric heater (Heating function)		kW	1.90
Dimensions	WxHxD	mm	480x836x385
Net weight		kg	38
Noise level at 1 m (Hi)		dB(A)	54
Noise level at 2.5 m (Hi)		dB(A)	46
Dehumidification capacity		Litres/h	1,2
Air flow (Hi/Med/Lo)		m ³ /h	480/470/436
Flexible tube for air expulsion		mm (Ø)	149.5
		mm (length)	500~2000



DEHUMIDIFIERS

DRYBOX

NEW

THE PORTABLE DEHUMIDIFIERS CREATING THE RIGHT DEGREE OF HUMIDITY INSIDE THE ROOM

DRYBOX are the new Hokkaido dehumidifiers, able to satisfy all market requirements within the dehumidification.

DRYBOX 16 is suitable for small and medium size rooms, while **DRYBOX 80**, of corresponding greater dimensions, has a dehumidifying capacity five times higher. Both the models are equipped with a water tank easy to empty and clean, besides the possibility to drain the water continuously.



DHM80-A1



DHM16-A1

Residential dehumidification: 16 Lt/day (DHM16-A1) and great capacity 80 Lt/day (DHM80-A1).

R134A refrigerant (DHM16-A1) and R410A refrigerant (DHM80-A1).

2 fan speeds.

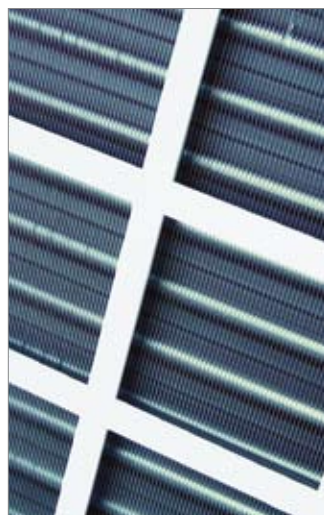
Digital hygrostat for detection and control of humidity.

Water tank of 2.5 litres (DHM16-A1); water tank of 9.0 litres (DHM80-A1).

Possibility of continuous drainage of condensate.

Model			DHM16-A1			DHM80-A1		
Power supply		Ph-V-Hz	1-220~240-50			1-220~240-50		
Rated capacity of dehumidification	(30° C RH80%)	Lt/day	16/day			80/day		
Control			Mechanical			Mechanical		
Type of defrosting			Fan			Fan		
Defrosting			Automatic			Automatic		
Detection and control of humidity			Digital hygrostat			Digital hygrostat		
Consumption	W		410			1350		
Sound pressure level	dB(A)		42			48		
Air flow	m ³ /h		135			400		
Current intensity	A		2.10			5.30		
Capacity of water tank supplied	Lt.		2.10			7.20		
Operation range	°C		5° ~ 35°			5° ~ 35°		
Refrigerant	Type		R134A			R410A		
Dimensions	(WxHxD)	mm	340	495	220	481	628	286
Net weight		Kg	13.3			24.5		

Dust filter



Water tank



Easy to move





COMMERCIAL LINE 2015 FULL DC INVERTER



Commercial Full DC Inverter Range 2015

Hokkaido proposes air conditioners of last generation, in the forefront in technological contents and design. The constant attention to quality and daily well-being turns into environmental comfort, maximum silence and high energy saving.

The application solutions offered by the products of **Commercial Full DC Inverter** range meet the installation requirements both of commercial spaces of medium and big size and of residential units of big size.

The outdoor units, of 10.80 kW, 14.00 kW and 16.00 kW, are characterized of compact size and low noise levels.

The indoor units, cassette, duct and floor/ceiling, are able to ensure efficacious solutions for different installation requirements.

All the solutions proposed are developed with Full DC Inverter technology, use R410A refrigerant and are characterized by high values of seasonal energy efficiency (SEER, SCOP).

Line up of 2015 range	34
Main features of outdoor units	34
Main features of indoor units	34
INDOOR UNITS	35



COMMERCIAL FULL DC INVERTER

INDOOR UNITS

	10,80	14,00	16,00
Slim Cassette 84x84  HTBI XA	✓	✓	✓
Floor/ceiling  HSFI XA	✓	✓	✓
Duct medium Pa  HUCI XA	✓	✓	✓

Main features of indoor units

All the indoor units are equipped with:

- terminal for remote on/off and remote alarms;
- setting of room temperature sensor compensation;
- setting of fan operation parameters in Heating mode.

HTBI XA

The optional panel (TBP-LF 716 X) allows an optimal distribution of air at 360°. The central part of the panel is provided with motorization, able to make the filter go down and facilitate the operations of weekly cleaning. Each flap for air distribution can be controlled separately by the optional touch screen command.



The unit is provided with pre-cut for fresh air intake.

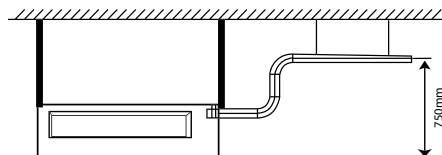


In the presence of the optional Lift panel, it is necessary to use the new optional Touch Screen wired controller.



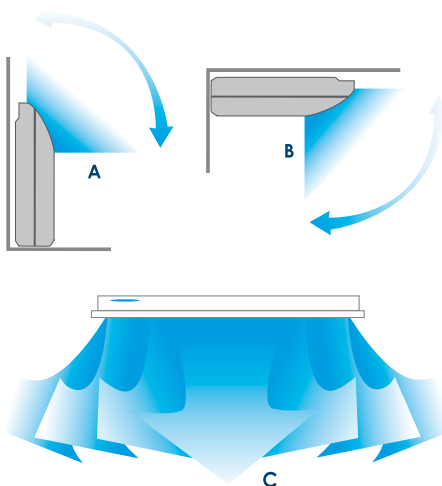
HTBI XA - HUCI XA

Condensate drain pump, that allows an elevation of up to 750 mm from panel. The following example refers to Duct model HUCI XA.



HSFI XA

Vertical swinging of air outlet flaps, both with floor type installation (A) and with ceiling type installation (B) with wide angle of air distribution (C).



OUTDOOR UNITS

3-phase Models



HCSI 1080 XA

HCSI 1400 XA
HCSI 1600 XA

Main features of outdoor units

Ultra compact design.

Low noise levels.

High efficiency & energy saving.

Cooling operation with outdoor temperature down to -15° C.

Heating operation with outdoor temperature down to -15° C.

PFC control (Power Factor Correction) optimizes the power voltage (Model of 10.80 kW).

25 steps of compressor frequency control (Model of 10.80 kW).

5 external fan speeds (Model of 10.80 kW).

Control and adjustment of refrigerant flow, combined with capillary and EXV (Expansion Valve), to reach optimal performance in every working condition (Models of 14.00 and 16.00 kW).

All the outdoor units are provided with Sine Wave Technology 180°:

- significant reduction of noise levels and vibrations;
- remarkable increase of efficiency at low frequencies;
- increase in the frequency range from 10Hz to 130Hz.



Performance and consumption are calculated at 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).

COMMERCIAL FULL DC INVERTER



Slim Cassette 84x84
HTBI 1080-1400-1600 XA



3 capacities: 10.80~16.00 kW.

Extremely compact dimensions: only 205 mm in height, that makes it perfectly integrated also in the narrowest false ceilings.

Pre-cut for air outlet duct on two sides, for air conditioning of adjacent rooms.

3D ventilation.

Condensate drain pump.



Indoor unit model			HTBI 1080 XA			HTBI 1400 XA			HTBI 1600 XA		
Outdoor unit model			HCSI 1080 XA			HCSI 1400 XA			HCSI 1600 XA		
Type			FULL DC-Inverter			FULL DC-Inverter			FULL DC-Inverter		
Rated capacity (T=+35°C)	Cooling	W	10551(3068~11978)			13188(4346~14484)			14947(3800~15484)		
Rated power input (T=+35°C)	Cooling	W	3510(600~4050)			4885(1200~6010)			5535(1200~6400)		
Annual energy consumption	Cooling	kWh/a	602								
Energy efficiency class seasonal	Cooling	626/2011 ¹	A+								
Energy efficiency seasonal index	Cooling	SEER2	5.8								
Coefficient of Energy Efficiency Rated	Cooling	EER3	3.00			2.70			2.70		
Design load (Pdesignc)	Cooling	kW	10.50								
Rated capacity (T=+7°C)	Heating	W	11137(3155~11500)			14654(4208~16260)			17584(4500~18260)		
Rated power input	Heating	W	3000(600~4050)			3950(950~5410)			4740(1070~5410)		
Annual energy consumption	Heating	kWh/a	3675								
Energy efficiency class (average season)	Heating	626/2011 ¹	A+								
Energy efficiency seasonal index (average season)	Heating	SCOP2	4.0								
Coefficient of Energy Efficiency Rated	Heating	COP3	3.71			3.75			3.71		
Design load (Pdesignh)	Heating	kW	10.50								
T° operational limit (Tol)	Heating	°C	-15								
Power supply		Ph-V-Hz	3-380~400V-50HZ			3-380~400V-50HZ			3-380~400V-50HZ		
		I.U. ~ O.U.	I.U. + O.U.			I.U. + O.U.			I.U. + O.U.		
Current consumption (MAX)		A	11			13			15		
Cable connection I.U./ O.U. (ground wire excluded)		n°	2 shielded cables			2 shielded cables			2 shielded cables		
Refrigerant circuit											
Diameter of refrigerant pipings liquid side/gas side	mm/inches		ø 9.52(3/8") / ø 15.88(5/8")			ø 9.52(3/8")/ø 15.88(5/8")			ø 9.52(3/8") /ø 15.88(5/8')		
Max. splitting distance I.U./O.U.	m		65			65			65		
Max. splitting level difference I.U./O.U.	m		30			30			30		
Refrigerant (GWP) ⁴			R410A(2088)			R410A(2088)			R410A(2088)		
Quantity of refrigerant precharge	Kg		3.55			3.80			4.60		
Max splitting distance without additional refrigerant charge	m		5			5			5		
Additional refrigerant charge	g/m		30			30			30		
Operation range in Cooling mode	°C		-15°C ~ +50°C			-15°C ~ +50°C			-15°C ~ +50°C		
Operation range in Heating mode	°C		-15°C ~ +24°C			-15°C ~ +24°C			-15°C ~ +24°C		
Indoor units' Specifications											
Indoor unit	Dimensions (WxHxD)	mm	840	245	840	840	287	840	840	287	840
	Net weight	Kg	26.5			29			31		
Sound pressure level - Indoor unit	H-M-L	dB(A)	54	52	48	54	50	46	55	51	46
Sound power level - Indoor unit		dB(A)	64								
Air flow (Hi/Me/Lo)	m³/h		1850	1600	1400	2300	2100	1800	2300	2100	1800
Drain hose diameter	mm		32			32			32		
Remote controller (standard supplied)	type		IR Remote Controller			IR Remote Controller			IR Remote Controller		
Outdoor units' Specifications											
Outdoor unit	Dimensions (WxHxD)	mm	945	810	395	938	1369	392	938	1369	392
	Net weight	Kg	77.5			102			107		
Sound pressure level - Outdoor unit		dB(A)	61			63			64		
Sound power level - Outdoor unit		dB(A)	70								
Max air flow	m³/h		5000			7200			7500		
Accessories											
Panel			TBP 716 X			TBP 716 X			TBP 716 X		
Panel data	Dimensions (WxHxD)	mm	950	55	950	950	55	950	950	55	950
	Net weight	Kg	5			5			5		
Optionals											
LIFT panel			TBP-LF 716 X			TBP-LF 716 X			TBP-LF 716 X		
Wired controller						SI					
Wired controller (with Lift panel)						DTW IHXR Touch					
Centralized controller						YES					
Weekly timer						YES					

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



Floor/ceiling
HSFI 1080-1400-1600 XA



COMMERCIAL FULL DC INVERTER

3 capacities: 10.80~16.00 kW.

Simple & elegant design.
Setting for different types of installation (floor or ceiling).



Indoor unit model			HSFI 1080 XA			HSFI 1400 XA			HSFI 1600 XA		
Outdoor unit model			HCSI 1080 XA			HCSI 1400 XA			HCSI 1600 XA		
Type			FULL DC-Inverter			FULL DC-Inverter			FULL DC-Inverter		
Rated capacity (T=+35℃)	Cooling	W	10551(3068~12037)			13481(4323~15542)			15533(4908~17967)		
Rated power input (T=+35℃)	Cooling	W	3460(600~4250)			4810(1200~6500)			5545(1370~6930)		
Annual energy consumption	Cooling	kWh/a	602								
Energy efficiency class seasonal	Cooling	626/2011 ¹	A++								
Energy efficiency seasonal index	Cooling	SEER ²	6.3								
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.05			2.80			2.80		
Design load (Pdesignc)	Cooling	kW	10.50								
Rated capacity (T=+7℃)	Heating	W	11723(3155~12063)			15240(4908~17348)			17584(5750~18890)		
Rated power input (T=+7℃)	Heating	W	3160(590~4120)			4065(1170~5410)			4740(1390~6480)		
Annual energy consumption	Heating	kWh/a	3675								
Energy efficiency class (average season)	Heating	626/2011 ¹	A+								
Energy efficiency seasonal index (average season)	Heating	SCOP ²	4.0								
Coefficient of Energy Efficiency Rated	Heating	COP ³	3.71			3.75			3.71		
Design load (Pdesignh)	Heating	kW	10.50								
T° operational limit (Tol)	Heating	℃	-15								
Power supply		Ph-V-Hz I.U. ~ O.U.	3-380~400V-50HZ I.U. + O.U.			3-380~400V-50HZ I.U. + O.U.			3-380~400V-50HZ I.U. + O.U.		
Current consumption (MAX)		A	11			13			15		
Cable connection I.U./ O.U. (ground wire excluded)		n°	2 shielded cables			2 shielded cables			2 shielded cables		
Refrigerant circuit											
Diameter of refrigerant pipings liquid side/gas side		mm/inches	ø 9.52(3/8") -- ø 15.88(5/8")			ø 9.52(3/8") -- ø 15.88(5/8")			ø 9.52(3/8") -- ø 15.88(5/8")		
Max. splitting distance I.U./O.U.		m	65			65			65		
Max. splitting level difference I.U./O.U.		m	30			30			30		
Refrigerant (GWP) ⁴			R410A(2088)			R410A(2088)			R410A(2088)		
Quantity of refrigerant precharge		Kg	3.55			3.80			4.60		
Max splitting distance without additional refrigerant charge		m	5			5			5		
Additional refrigerant charge		g/m	30			30			30		
Operation range in Cooling mode		℃	-15℃ ~ +50℃			-15℃ ~ +50℃			-15℃ ~ +50℃		
Operation range in Heating mode		℃	-15℃ ~ +24℃			-15℃ ~ +24℃			-15℃ ~ +24℃		
Indoor units' Specifications											
Indoor unit	Dimensions (WxHxP)	mm	1650	675	235	1650	675	235	1650	675	235
	Net weight	Kg	40			40			40		
Sound pressure level - Indoor unit	H-M-L	dB(A)	52	49	43	56	50	46	56	50	46
Sound power level - Indoor unit		dB(A)	65								
Air flow (Hi/Me/Lo)		m³/h	2200	1850	1500	2250	1750	1350	2250	1750	1350
Drain hose diameter		mm	25			25			25		
Remote controller (standard supplied)		type	IR Remote Controller			IR Remote Controller			IR Remote Controller		
Outdoor units' Specifications											
Outdoor unit	Dimensions (WxHxD)	mm	945	810	395	938	1369	392	938	1369	392
	Net weight	Kg	77.5			102			107		
Sound pressure level - Outdoor unit		dB(A)	61			63			64		
Sound power level - Outdoor unit		dB(A)	70								
Max air flow		m³/h	5000			7200			7500		
Optionals											
Wired controller						YES					
Centralized controller						YES					
Weekly timer						YES					

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - Value measured according to EN14825.

3 Value measured according to EN14511.

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.

COMMERCIAL FULL DC INVERTER



Duct medium Pa
HUCI 1080-1400-1600 XA



3 capacities: 10.80~16.00 k.

Compact design.

Possibility of air intake from the rear or from the bottom.

Pre-cut for fresh air intake.

Satellizable electric box; it can be separated from the unit's body.

IR remote controller.



Indoor unit model			HUCI 1080 XA			HUCI 1400 XA			HUCI 1600 XA		
Outdoor unit model			HCSI 1080 XA			HCSI 1400 XA			HCSI 1600 XA		
Type			FULL DC-Inverter			FULL DC-Inverter			FULL DC-Inverter		
Rated capacity (T=+35°C)	Cooling	W	10551(3068~12037)			13481(4324~15000)			15533(4967~17260)		
Rated power input (T=+35°C)	Cooling	W	3460(600~4440)			4810(1200~6500)			5545(1380~7350)		
Annual energy consumption	Cooling	kWh/a	602								
Energy efficiency class seasonal	Cooling	626/2011 ¹	A++								
Energy efficiency seasonal index	Cooling	SEER ²	6.1								
Coefficient of Energy Efficiency Rated	Cooling	EER ³	3.05			2.80			2.80		
Design load (Pdesignc)	Cooling	kW	10.50								
Rated capacity (T=+7°C)	Heating	W	11723(3155~12563)			15240(4967~17522)			17584(5785~18260)		
Rated power input (T=+7°C)	Heating	W	3080(580~4090)			4065(1180~5420)			4740(1390~6490)		
Annual energy consumption	Heating	kWh/a	3675								
Energy efficiency class (average season)	Heating	626/2011 ¹	A+								
Energy efficiency seasonal index (average season)	Heating	SCOP ²	4.0								
Coefficient of Energy Efficiency Rated	Heating	COP ³	3.80			3.75			3.71		
Design load (Pdesignh)	Heating	kW	10.50								
T° operational limit (Tol)	Heating	°C	-15								
Power supply		Ph-V-Hz	3-380~400V-50HZ			3-380~400V-50HZ			3-380~400V-50HZ		
Current consumption (MAX)		I.U. ~ O.U.	I.U. + O.U.			I.U. + O.U.			I.U. + O.U.		
		A	11			13			15		
Cable connection I.U./ O.U. (ground wire excluded)		n°	2 shielded cables			2 shielded cables			2 shielded cables		
Refrigerant circuit											
Diameter of refrigerant pipings liquid side/gas side		mm/inches	ø 9.52(3/8'')/ø 15.88(5/8'')			ø 9.52(3/8'')/ø 15.88(5/8'')			ø 9.52(3/8'')/ø 15.88(5/8'')		
Max. splitting distance I.U./O.U.		m	65			65			65		
Max. splitting level difference I.U./O.U.		m	30			30			30		
Refrigerant (GWP) ⁴			R410A(2088)			R410A(2088)			R410A(2088)		
Quantity of refrigerant precharge		Kg	3.55			3.80			4.60		
Max splitting distance without additional refrigerant charge		m	5			5			5		
Additional charge		g/m	30			30			30		
Operation range in Cooling mode		°C	-15°C ~ +50°C			-15°C ~ +50°C			-15°C ~ +50°C		
Operation range in Heating mode		°C	-15°C ~ +24°C			-15°C ~ +24°C			-15°C ~ +24°C		
Indoor units' Specifications											
Indoor unit	Dimensions (WxHxD)	mm	1200	300	865	1200	300	865	1200	300	865
	Net weight	Kg		44			44			45	
Sound pressure level - Indoor unit	H-M-L	dB(A)	45	42	39	45	43	40	45	43	40
Sound power level - Indoor unit		dB(A)		64							
Air flow (Hi/Me/Lo)		m ³ /h	1740	1560	1180	2413		1641	2413		1641
Static pressure of fan (std / max)		Pa		25/80			25/100			25/100	
Air outlet flange	Dimensions (WxH)	mm		968x204			968x204			968x204	
Drain hose diameter		mm		25			25			25	
Remote controller (standard supplied)		type	IR Remote Controller			IR Remote Controller			IR Remote Controller		
Outdoor units' Specifications											
Outdoor unit	Dimensions (WxHxD)	mm	945	810	395	938	1369	392	938	1369	392
	Net weight	Kg		77.5			102			107	
Sound pressure level - Outdoor unit		dB(A)		61			63			64	
Sound power level - Outdoor unit		dB(A)		70							
Max air flow		m ³ /h		5000			7200			7500	
Optionals											
Wired controller							YES				
Centralized controller							YES				
Weekly timer							YES				

1 Commission Delegated Regulation EU N. 626/2011 with regard to new energy labelling, indicating the energy consumption of air conditioners.

2 Commission Delegated Regulation EU N. 206/2012 - - Value measured according to EN14825.

3 Value measured according to EN14511.

Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a refrigerant fluid with a GWP equal to 2088. If 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 2088 times higher than 1 kg of CO₂, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.



HEAT WATER HEATER



HEAT WATER HEATER

HWMI 190C
HWMI 300A

40
41

HEAT WATER HEATER

HEAT PUMP WATER HEATER

Mod. 190 litres

HWMI 190C



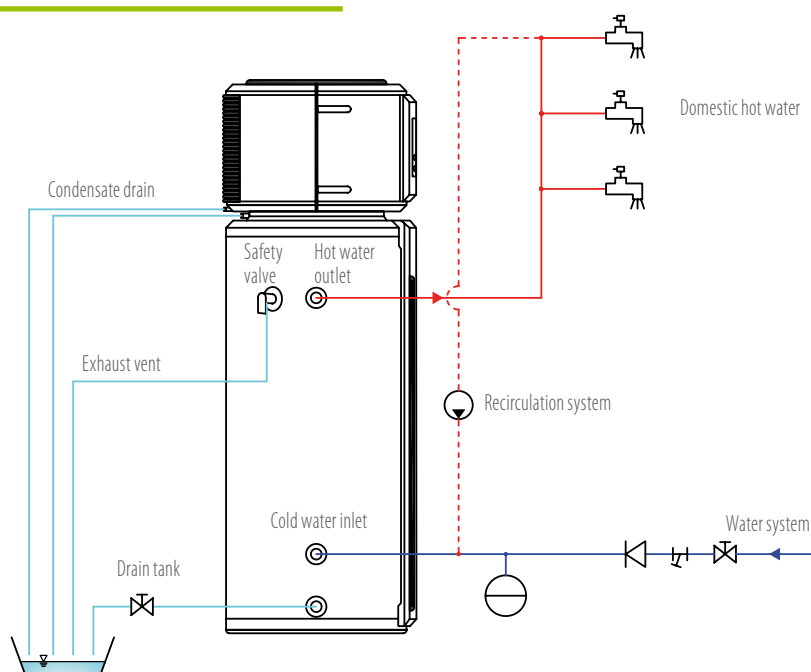
- Water tank **volume** 190 litres (water tank in carbon steel, porcelain glass inside).
- Nominal **heating power** of compressor 1.5 kW (available auxiliary electric heater 1.0 kW).
- Nominal **COP** 3.5.
- **Domestic hot water** supplied up to 65° C (70° C with the aid of electric heater).
- **Operation** in heat pump from 5° C to 43° C of intake air (down to -30° C with electric heater).
- **Max speed** of warming up: 260 minutes with water from 15° C to 45° C.
- **Minimum heating dissipation** inside the room: -2.2° C in 24 hours with room temperature 15° C and water tank's average temperature of 43° C.

Model		HWMI 190 C
Operation mode		Economy, Hybrid or E-heater
Water tank volume	Litres	190
Steel water tank		Porcelain glass
Operation range		+5° C ~ +43° C
Power supply		220~240V-1ph-50Hz
Rated power of compressor	W	1,500
Rated power consumption (Economy)	W	429
COP*		3.50
COP DHW**		2.76
Electric heater	W	1,000
Sound pressure level	dB(A)	48
Dimensions (DxH)	mm	ø 568x1580
Empty weight	kg	101
Refrigerant (Type/Quantity)	kg	R134A/0.80
Water pipe connections	mm	DN20
Tank dispersion 24/h (43° C mean temp.)	°C	2.2
Warm-up time (starting T° = 15° C / final T° = 45° C)	min.	260
Max available hot water with quick emptying of tank	Litres	157 (min. 40.4° C)
Warm-up electric consumption (starting T° = 15° C / final T° = 45° C)	kWh	2

* (Air 15/12° C - Water 15/45° C); ** (EN 16147).

Max temperature of hot water supplied: with compressor 65° C max for outdoor temp. 5~43° C. With electric heater 70° C max for outdoor temp. -30~43° C.

DIAGRAM OF WATER PIPE CONNECTIONS

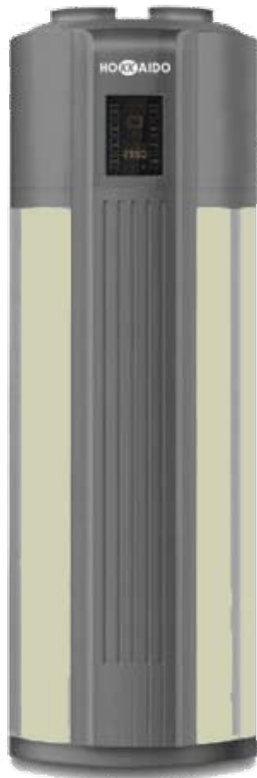


HEAT WATER HEATER

HEAT PUMP WATER HEATER

Mod. 300 litres connectable with solar system

HWM1 300A



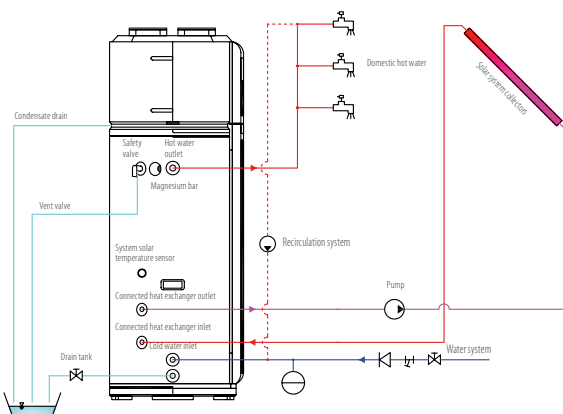
- Water tank **volume** 300 litres (stainless steel tank).
- **Air inlet** and **air outlet** can be ducted (possibility to make use of the useful effect of exhaust air to cool the room).
- Rated **heating power** of compressor 3 kW (auxiliary electric heater 1.5 kW available).
- Rated **COP** 3.60.
- **Domestic hot water** supplied up to 60° C (65° C with the aid of electric heater).
- Heat pump **operation** from -7° C to 43° C outdoor (down to -30° C with electric heater).
- **Max quickness** of warming up: 203 minutes with water from 15° C to 45° C.
- **Minimum heating dissipation** inside the room ambiente: -1.8° C in 24 hours with room temperature 15° C and tank's average temperature of 43° C.
- **Can be connected with solar system:** availability of a stainless steel coil and probe pit.

Model		HWM1 300A
Operation mode		Economy, Hybrid or E-heater
Water tank volume	Litres	300
Steel water tank		Stainless
Operation range		-7° C ~ +43° C
Power supply		220~240V-1ph-50Hz
Rated power of compressor	W	3,000
Rated power input (Economy)	W	880
COP*		3.60
COP DHW**		2.98
Electric heater	W	1,500
Sound pressure level	dB(A)	46.6
Dimensions (DxH)	mm	ø 650x1920
Empty weight	kg	123
Refrigerant (Type/Quantity)	kg	R134A/1.20
Water pipe connections	mm	DN20
Tank dispersion 24/h (43° C average temp.)	°C	1.8
Warm-up time (starting T° = 15° C / final T° = 45° C)	min.	203
Max available hot water, quick emptying of tank	Litri	293 (min. 40.1° C)
Warm-up electric consumption (starting T° = 15° C / final T° = 45° C)	kWh	2.9
Built-in heat exchanger for solar system	m2	0.7

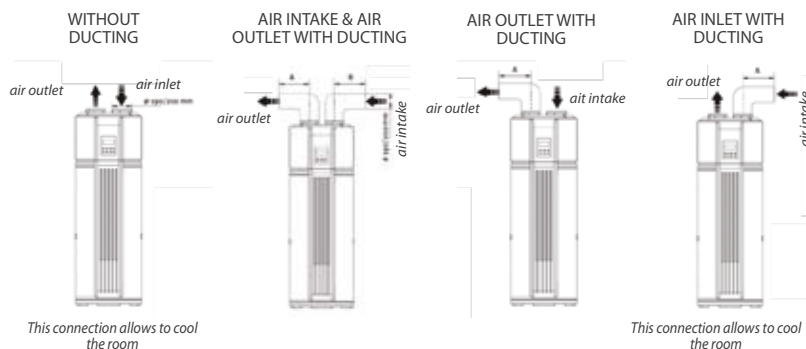
* (Air 15/12° C - Water 15/45° C); ** (EN 16147 tapping cycle "L").

Max temperature of hot water supplied: with compressor 60° C max for outdoor temp. 7~43° C, 55° C max for outdoor temp. 2~7° C, 50° C max for outdoor temp. -2~-2° C, 45° C max for outdoor temp. -7~-2° C. With electric heater 60° C max; 65° C for anti-legionella cycle.

DIAGRAM OF WATER PIPE CONNECTIONS



4 INSTALLATION MODES



The static pressure of 30Pa allows ducting up to 10 metres to direct cold air towards the outside or inside the rooms to be cooled in summer.



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CONTROLS

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INDIVIDUAL SERIES CONTROLS



HKEQ X/F
HKETM Q



HUCI
HUCU



HTFU
HTBI
HSFU
HSFI



HKEU
HFIU



HKEU XA/XAL

INDIVIDUAL CONTROLS & OPTIONAL CENTRALIZED CONTROLS



DTW 3 IHXR Touch
DTWS 3 IHXR Compact

Wired controller

- Room temperature range: 17° C~30° C.
- Modes: auto, cooling, dehumidifying, heating, fan only.
- Setting of clock orologio, timer & fan speed.
- Adjustment of motorized flaps.
- Fan speed: low, medium, high or automatic.
- Filter cleaning memory.
- Wireless signal receiver.
- Buttons' lock.
- ECO function, with automatic change of room temperature setting.
- Follow me function: built-in temperature sensor for accurate control of room temperature (mod. 'S').



DTC IHXR Touch

Centralized controller

- New outlook.
- Touch buttons.
- LCD backlight.
- Max 64 indoor units, group or individual control.
- Temperature setting.
- Restriction of IR controls.
- Lock mode.
- Mode setting: cooling, heating, fan only.
- Fan speed: low, medium, high or automatic.
- Timer ON and/or Timer OFF.
- Adjustment of motorized flaps (if available).



DTW-IHXR Touch

Wired controller

HTBI X *with lift panel*

Possibility to control the Lift Panel for filter cleaning.

- Room temperature range: 17° C~30° C.
- Modes: auto, cooling, dehumidifying, heating, fan only.
- Setting of clock, timer & fan speed.
- Setting the motorized flaps for all or single use.
- Fan speed: low, medium, high or automatic.
- Follow me function: built-in temperature sensor for accurate control of room temperature.



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INDIVIDUAL CONTROLS & OPTIONAL CENTRALIZED CONTROLS



DTWT 1 IHXR

Weekly timer

- 4 daily settings:
 - ON/OFF time;
 - operation mode;
 - fan speed;
 - display of alarm codes & protection codes;
 - matcheable with remote and/or wired controller.
- New Delay button.



DTCWT IHXR

Centralized controller with Weekly timer

- Max 64 indoor units can be connected.
- Possibility of 4 daily settings (Mon-Sun) on single or all units: ON/OFF, operation mode, room temperature & fan speed.
- Memory of set functions.
- Set function lock (cooling, heating, keyboard & remote control).
- Display of work parameters (heat exchangers & ambient temp sensors).
- Display of alarm codes & protection codes.



HOKKAIDO XRV Mobile BMS

Wi-Fi Control Unit for the control of indoor units XRV systems or commercial units from iPad or PC

Some examples of screen from iPad device



Creating a direct connection to the control unit or a network with Wi-Fi router.



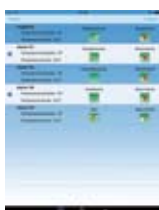
Setting a protection password. Management of several control units.



Identifying the indoor units with operation mode display and activation of remote controller.



Setting of all units, groups of units or individual units.



Setting the following on each unit:

- on/off;
- operation mode;
- limit temperature;
- room temperature;
- flap activation;
- activation of remote control.



Setting the Weekly timer timer.



Main features

- Scheduling management through a simple user interface.
- Management & control of operation via web (if configured and connected).
- Password management for modifying the operation parameters.
- Management of ID of indoor units.
- Management & identification of parameters of individual units, groups or all connected units.
- Management of weekly scheduling, with minute precision.
- Management of min/max temperature set by the Customer.
- Remote controllers' unlock or lock.
- Management of several control unit by only one application.
- The control unit is connected to the communication bus X-Y-E (used for a centralized control).
- Compact dimensions (120x80x30mm) for mounting on the electric box.
- Power supply 90/220 V-50/60 Hz.
- The software available for iPad, can be downloaded from iTunes, for Windows, it can be downloaded from the reference site.
- The Internet connection for the programming and/or check from remote control requires a Wi-Fi router.
- Each control unit can manage up to max 64 indoor units.



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DESIGN SOFTWARE XRV

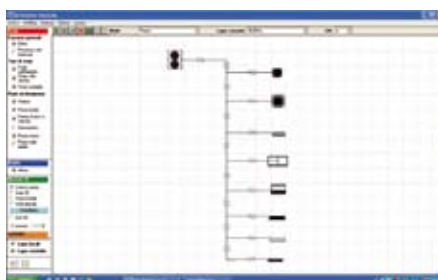


The single line diagram of pipings can be copied directly on Word or Excel documents, or exported in file.DXF that can be integrated into a design AUTOCAD.

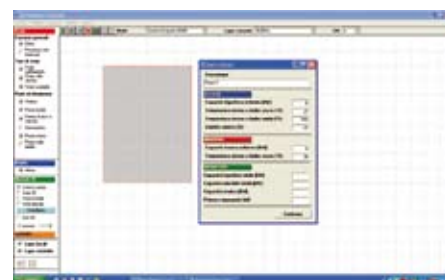
The final report is a summary of the units used, of pipings divided in different diameters, of branches and of electric diagrams concerning system and connection of the selected controls.



Home page of multilanguage design software.



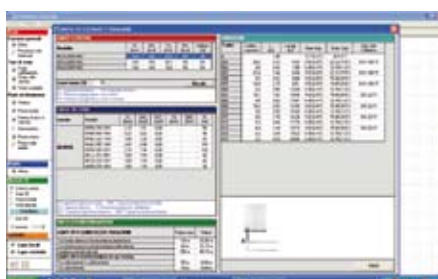
Possibility to insert type and capacity of indoor units, pipings' length and connection sequence.



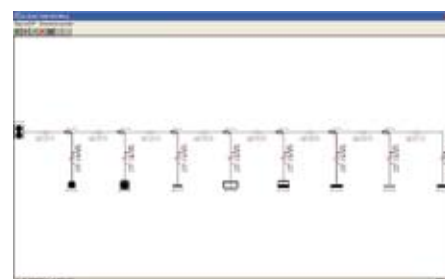
Possibility to insert data for each room: summer & winter heating loads, design temperatures and simultaneity factor f use.



Possibility to import AUTOCAD files, usable as a background on which to design the system.



Gives the choice of indoor & outdoor units suitable to the installation to be realized, the size of pipings and branches of refrigerant system.



Allows to display a full report on all the system's components.

TECHNICAL COURSES

Hokkaido organizes, in cooperation with its agencies, various technical courses at its headquarters or at dealers' facilities, in order to deepen technicians' and designers' knowledge concerning the following topics:

REFRIGERANT CIRCUIT
INSTALLATION PROBLEMS
TROUBLESHOOTING
ASSISTANCE
DESIGN OF SYSTEMS WITH DIFFERENT CAPACITIES
USE OF "EASY SOLUTION" SOFTWARE



RESIDENTIAL MONO&MULTI 2015

KEY TO ICONS



DC Inverter technology

Ensures the best efficiency and high energy saving, thereby reaching uniformly and quickly the selected temperature parameters.



Attention to the environment

All the Products use the environmentally friendly R410A refrigerant, bi-component mixture without CFC and ozone friendly, which ensures maximum efficiency and running economy.



Energy Class

The most part of models have "A" energy class in Cooling & Heating modes.



Operation range

The most part of outdoor units operate in Heating mode with outdoor temperature down to -15°C .



Smart control of the internal fan

In Heating mode:

- during thermostatic stops, fan speed is automatically managed to avoid discomfort caused by currents of cold air;
- during pre-heating, the air conditioner will not supply air until the heat exchanger has reached the set temperature..



Biofilter



Autorestart function

Automatic switching on after a power cut. In the event of a blackout, when power supply is restored, the appliance restarts with the previous selected settings.



Compact design

Indoor units show a modern and compact design, guaranteeing a wide versatility of application leading to quality air-conditioning.



Microcomputer controlled defrosting

The microcomputer is able to detect a fall off in heating capacity of the system, due to frosting on outdoor unit heat exchanger. Defrosting function is activated, and the corresponding LED lights up.



Sleep function

Improves the comfort during the night operation, by reducing (in Heating mode) or increasing (in Cooling mode) the set temperature gradually.



Low sound level

Made with innovative technologies, the wide range of indoor units represents the customized response to all requirements of ambient comfort.



Auto Swing & Wide Angle functions

The innovative 3D system (Auto Swing & Wide Angle) is present on floor/ceiling models; the motorized horizontal & vertical flaps adjust the air flow in optimal way, thus permitting a better air distribution inside the room.



3-dimensional coaxial fan

Cassette-type model 60x60 has been designed to house a special fan (3-dimensional, coaxial), which reduces the rotation resistance and allows even distribution of the air flow onto the heat exchanger, thus guaranteeing comfort and wellbeing inside the room.



Ease of maintenance

The auto diagnosis functions on remote controls and on indoor & outdoor units provide all the information required to identify malfunctions, making easy and reducing technical assistance.



Centralized controller

The centralized control (optional), it is possible to control up to 64 indoor units, console model only.



Timer with delay setting



Dehumidifying



Timer 24h



Remote controller



Easy installation



Wired controller



Maintenance & filter cleaning



3D ventilation



WiFi connection



Fresh air

Pre-cut for fresh air intake.

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