

Experience makes technology

General Catalogue 2013

Residential



Commercial



XRV Multi System



www.hokkaido.eu





2013

Hokkaido is a brand of Termal Group, based in Italy and present in the international market, which has been a leader in the air conditioning sector throughout Europe since 30 years.

It is a brand that has been able to stand out in the market, offering a quality solution for the different application requirements of installers, retailers, designers and end users.

7-14





15-22

Commercial



23-30





31-52





53-58





59-60





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 that look to the future.

HOKKAIDO

With over 10 years of experience in providing reliable and high-tech products, Hokkaido brand, born in 2000, is a recognized leader in Italy and Europe in the production and marketing of air conditioners for residential, commercial and industrial applications.

OUR OFFICE

Hokkaido Italia, born in early 2008, has its headquarters in Bologna at the operational center of Termal Group to which it belongs. Hokkaido Italia is the company dedicated exclusively to the distribution of Hokkaido products on the Italian market.

A network of 25 agencies, widely distributed throughout the country is addressed to both wholesalers and installers of traditional heating and sanitary water channel.

The goal is to become the leader in its market with the offer of a wide and versatile range of products for the air-conditioning of residential, commercial and industrial environments, characterized by high technology, very high performance and highly competitive price.

A REALITY NOT ONLY THE EUROPEAN

In Europe, Hokkaido has been present since 1999, when Termal Group has expressed its sales force at international level too with the direct export of air conditioners in 30 different European and non-European countries.

The international network of dealers and distributor partners has developed faster and faster, mainly due to the variety and reliability of services offered.

In January 2009, the establishment of Termal International strengthens business development strategy of Hokkaido brand on international markets.

The new corporate structure allows to offer more flexible and innovative services, closer to customer needs, with special attention 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 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.









Being constantly engaged in improving the climate in the world means accepting the committment to use energy in an intelligent way, in order to protect the environment

THE NETWORK

The distribution is organized through channels dedicated to specific market segments and is assigned to 3 different commercial companies.



It is dedicated exclusively to the distribution of Hokkaido brand products on the Italian market with a network of agencies, distributed throughout the national territory. It is addressed to: wholesalers and installers of traditional heating and sanitary water channel.

www.hokkaidoitalia.it





Climamio is the franchising network of air-conditioning professionals that counts several outlets divided into: Store, Shop and Point, widely distributed throughout the country. At Climamio's retail outlets, a team of experienced and reliable professionals provides the customer with an integrated service of consulting, engineering, sales, installation, planned maintenance and qualified technical assistance. A qualified technical expertise and a consulting activity oriented to the needs of the customer, are the foundation for a relationship that can follow the whole life cycle of the product.

www.climamio.it





Termal International is the channel dedicated to the direct export of Hokkaido products towards 30 different European and non-European countries. The international network is made up of dealers and distributor partners and provides quick deliveries throughout the EU territory.

www.termalinternational.it





ERP Directive

ENERGY CLASSIFICATION IN FORCE SINCE JANUARY 1ST, 2013

On January 1st, 2013, new minimum energy efficiency values came into force to be observed in the production of new air-conditioning appliances, as required by European Directive ERP (Energy Related Product). The European Directive ERP introduces:

- new methods for calculating energy efficiency, including the parameter of seasonal efficiency SCOP in Heating mode and SEER in cooling mode;
- obligation of producers to observe a minimum energy efficiency value and a maximum value of sound power for new products introduced to market.

With these new parameters, the manufacturers are obliged to adopt new design methods and the impacts are evident on the heat pump for the heating of residential environments. The purpose of the rule is to promote an eco-design of energy-using products and to reduce consumptions and CO₂ emissions. All this helps to meet the **European strategic plan '20**

- 20 20' which involves within 2020:
- 20% reduction of primary energy consumption
- 20% reduction of CO₂ emissions
- 20% use of renewable energy



FOR THE CONSUMER

European directive ERP aims to increase the minimum efficiency of air conditioners, at the same time reordering the air conditioning sector by prohibiting the sale of products which are no longer considered efficient. Not only that, but with the introduction of new energy efficiency classes for air conditioning, consumers will have all the tools necessary for choosing the best device for their needs.

The new EU energy label regulations introduce new efficiency classes above current class A (A+, A++, A+++). Gradually, starting in 2013 and until 2019, these classes will more clearly indicate appliance consumption, highlighting both the differences in quality and performance differences between products.

The new labelling provides more details and information and make consumption, energy and appliance efficiency easier to read and understand, thus allowing consumers to make fully aware choices at the time of purchase.

FOR THE ENVIRONMENT

The new energy labelling reduces the consumption of precious natural resources and minimises environmental impact, suggesting the choice of the most efficient products, increasing transparency regarding air conditioner energy consumption and promoting the development of continuously more efficient appliances.







New energy label

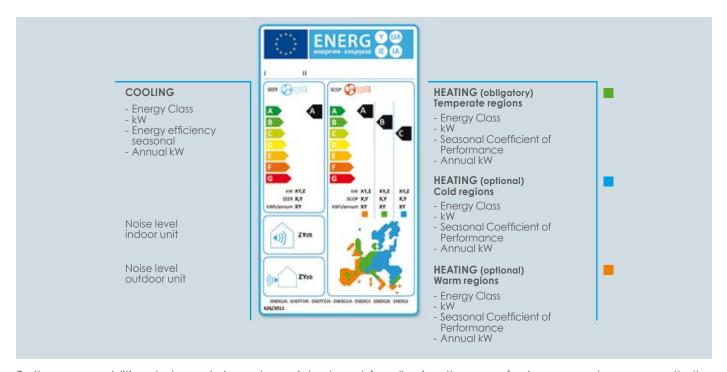
THE FORMAT

Since January 1st, 2013, new energy label came into force.

In all product categories for which it was already planned, the label has kept the format and its simple design, that is the basic elements which make it recognizable:

- division in classes
- 7 classes of energy efficiency
- chromatic scale: the bright green colour indicates high energy efficiency products, while the red colour indicates the low energy efficiency products.

Energy efficiency in Heating mode related to the seasonal COP is clearly shown.



Furthermore, additional elements have been introduced for allowing the manufacturers – and consequently the retailers – to highlight the technological progress.

Every product will be supplied with its energy label, for which up to three new energy classes are planned (A+, A++, A+++) that gradually join the traditional scale from A to G.

Since January 1st, 2013, Air Conditioners of new production and/or new import must meet the energy efficiency minimum requirements, which must not be lower than "D" Class in Cooling mode and "A" Class in Heating mode, and these requirements will increase in future years.

Uniformity in all 27 EU Member States.

Neutral language, as texts have been replaced by pictograms that inform at a glance the users about the appliances' features and performance.

Acoustic declaration for the appliances: the noise represents a relevant classification standard.

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 unit of time, independent of the environment where the noise is radiated), whose value is higher than the sound pressure value (used in the previous rules) .

The product advertising material must necessarily indicate the reference to energy efficiency class to which the appliance belongs.

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

For further information and details, Termal invites you to visit the following site www.newenergylabel.com.





RESIDENTIAL





2013

RESI	DE	NT	IAL	
------	----	----	------------	--

MONOSPLIT

Performance Line DC Inverter

MULTISPLIT

Multi Liberty DC Inverter

- Outdoor units 11 - Indoor units 12

9



RESIDENTIAL RANGE 2013



PERFORMANCE LINE DC INVERTER

	2,00 kW	2,60 kW	3,50 kW	5,20 kW	5,30 kW	7,00 kW
WALL HKEQ X				- 100	Į	

PREVIEW MULTISPLIT RANGE 2013*



MULTI LIBERTY DC INVERTER

INDOOR UNITS	2,00 kW	2,60 kW	3,50 kW	5,20 kW	5,30 kW	7,00 kW
WALL HKEU X series 8	new	new	new		new	
CASSETTE 60x60 ROUND FLOW HTFU X series 8						
DUCT MEDIUM STATIC PRESSURE HUCU X series 8						

OUTDOOR UNITS

DUAL

HCKU 408 X2 4,10 kW **HCKU 538 X2** 5,30 kW



TRIPLE

HCKU 808 X3 8,00 kW



POKER

HCKU 1068 X4 10,50 kW



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

^{*} Products available starting from October 2013



MONOSPLIT PERFORMANCE LINE DC INVERTER





new



HKEQ 261~701 X



LED Display

Available in 4 different power levels: 2.60~7.00 kW. SEER 5.2 and SCOP 3.8 (3.50 kW model).

Models conforming to the Ecodesign Directive.

DC-Inverter power control.

Intelligent control of the internal fan during thermostatic pauses.

Defrosting operated from pc.

Thermostat operated from pc.

Timer ON or Timer OFF.

Autorestart in event of blackout.

"SLEEP" Function (energy saving).



MONOSPLIT PERFORMANCE LINE DC INVERTER

new























			HKEQ 261 X	HKEQ 351 X	HKEQ 521 X	HKEQ 701 X
Model			HCNQ 261 X	HCNQ 351 X	HCNQ 521 X	HCNQ 701 X
Type				Heat	pump	
Controller				IR Wi	reless	
Capacity (T=+35°C)	Cooling	W	2600 (1000~3100)	3500 (1050~3700)	5200 (1800~5700)	7000 (2500~7500)
Power Input (T=+35° C)	Cooling	W	760 (290~1100)	1060 (290~1330)	1680 (500~2100)	2100 (650~2400)
Annual Consumption	Cooling	kWh/a	176	235	355	480
Energy efficiency class seasonal	Cooling	626/20111	Α	Α	A	A
Energy efficiency seasonal index	Cooling	SEER ²	5,1	5,2	5,1	5,1
Design load (Pdesignc)	Cooling	kW	2,6	3,5	5,2	7,0
Capacity (T=+7°C)	Heating	W	2600 (1000~3800)	3500 (1050~4500)	5200 (1800~5700)	7000 (2500~8200)
Power Input (T=+7° C)	Heating	W	680 (290~1400)	1010 (290~1700)	1650 (500~2350)	2060 (650~2700)
Annual Consumption	nsumption Heating kWh/a ciency class Heating (24/2011)		957	1289	1908	2578
Energy efficiency class (average season)			А	А	А	A
Energy efficiency seasonal index (average season)	Heating	SCOP ²	3,8	3,8	3,8	3,8
Design load (Pdesignh) @-10° C	Heating	kW °C	2,6	3,5	5,2	7,0
Temperature range	0			0°C (at indoor temp	perature over 16°C)	
T° operational limit (Tol)				-15	i° C	
Removed wet		Lt/h	0,8	1,0	1,5	2,0
Noise level - I.U.	Hi-Mi-Lo	dB(A)	38-34-26	38-34-26	46-38-32	52-36-34
Sound power level - I.U.	Hi-Mi-Lo	dB(A)	50	50	58	64
Noise level - O.U.	Hi-Mi-Lo	dB(A)	48-44-42	50-46-44	52-50-48	56-50-48
Sound power level - O.U.	Hi-Mi-Lo	dB(A)	60	62	64	68
Electrical data						
Power supply				220-240V~/50Hz/1P to I.U.		220-240/50Hz/1P to O.U.
Power cable		V	165~265	165~265	165~265	165~265
Power cable		Type	3+T x 1,5 mm ²		3+T x 2,5 mm ²	<u>'</u>
Current consumption	Cooling	A	3,5 (1,3~5,0)	4,9 (1,3~6,1)	7,7 (2,3~9,6)	9,6 (3,0~11,0)
Current consumption	Heating	Α	3,1 (1,3~6,4)	4,6 (1,3~7,8)	7,6 (2,3~10,8)	9,4 (3,0~12,4)
Refrigerant circuit						
Refrigerant (GWP) ³			R410A (1975)	R410A (1975)	R410A (1975)	R410A (1975)
Refrigerant Charge		kg	0,75	0,95	1,60	2,7
Max splitting distance		m		1	5	
Max splitting I.U. /O.U.		m		5,	/5	
MAX Splitting with Refrigerant Precharge		m			5	
Additional Refrigerant Charge		gr/m		20		30
	Туре			Rot	tary	
Compressor	Model		DA89M1C-81EZ8	DA108M1C-81EZ8	DA130S1C-20FZ	DA150S1C-20FZ
	Frequency range		20~120	20~120	20~120	20~120
Fan						
Max indoor air flow		m³/h	650	650	1050	1450
Power Input		W	18	18	35	50
Max outdoor air flow		m³/h	1900	1750	2400	3200
Power Input		W	30	30	68	105
Connections						<u>'</u>
Cable connection between I.U. and O.U.		Type	3+T x 1,5 mm ²	3+T x 2	,5 mm ²	3+T x 1,5 mm ²
Refrigerant piping	Gas	mm/inch.	ø9,52(3/8")	ø12,70(1/2")	ø12,70(1/2")	ø15,88(5/8'')
Specifications	Liquid	mm/inch.	ø6,35(1/4")	ø6,35(1/4")	ø6,35(1/4")	ø9,52(3/8'')
Dimension	I.U.	mm	799 x 280 x 183	799 x 280 x 183	1033 x 313 x 202	1240 x 325 x 250
(W x H x D)	O.U.	mm	799 x 280 x 183 700 x 551 x 256	799 x 280 x 183 700 x 551 x 256	820 x 605 x 300	900 x 805 x 360
(YY ATTA U)	I.U.		700 X 551 X 256	700 X 551 X 256	820 x 605 x 300	900 x 805 x 360 20
Net	0.U.	kg	24	26	42	56
	O.U.	kg	Z4	20	42	36

¹ Commission Delegated Regulation (EU) No 626/2011 with regard to energy labelling of air conditioners.
2 Commission Delegated Regulation (EU) No 206/2012. Value measured according to EN14825.
3 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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 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 MULTI LIBERTY DC INVERTER



OUTDOOR UNITS*

Sine Wave Inverter Technology: 180°









2 I.U.



HCKU 408 X2 DUAL HCKU 538 X2 DUAL

3 I.U.



HCKU 808 X3 TRIPLE

4 I.U.



HCKU 1068 X4 POKER

Energy efficiency values refer to the following combinations: HCKU 408 X2 + 2 x HTFU 208 X - HCKU 538 X2 + 2 x HTFU 268 X - HCKU 808 X3 + 3 x HTFU 268 X - HCKU 1068 X4 + 4 x HTFU 268 X

Model			HCKU 408 X2	HCKU 538 X2	HCKU 808 X3	HCKU 1068 X4
Туре			DC Inverter	DC Inverter	DC Inverter	DC Inverter
Indoor unit connectable		n°	2	2	3	4
Capacity (T=35°C)	Cooling	kW	4,10(1,54~5,50)	5,30(1,40~6,60)	8,00(1,38~9,80)	10,50(1,27~13,80)
Power Input (T=+35° C)	Cooling	kW	1,200(0,61~1,83)	1,570(0,41~2,09)	2,410(0,48~3,06)	3,250(0,55~4,31)
Annual Consumption	Cooling	kWh/a	282	344	488	701
Energy Efficiency Class Seasonal	Cooling	626/20111	А	A+	A+	А
Energy Efficiency Class Seasonal Index	Cooling	SEER2	5,1	5,8	5,8	5,2
Energy Efficiency Rated	Cooling	31/20023	А	А	А	A
Coefficient of Energy Efficiency Rated	Cooling	EER4	3,42	3,38	3,32	3,23
Design load (Pdesignc)	Cooling	kW	4,10	5,3	7,9	10,5
Capacity (T=+7°C)	Heating	kW	4,60(1,59~5,70)	5,80(1,30~6,40)	8,85(1,47~10,50)	11,70(1,59~14,40)
Power Input (T=+7° C)	Heating	kW	1,080(0,45~1,75)	1,462(0,37~1,80)	2,350(0,46~2,75)	3,100(0,61~4,23)
Annual Consumption	Heating	kWh/a	1540	2279	3589	4498
Energy Efficiency Class Seasonal (average season)	Heating	626/20111	A+	А	А	А
Energy Efficiency Class Seasonal Index	Heating	SCOP2	4,0	3,8	3,8	3,8
Energy Efficiency Rated	Heating	31/20023	Α	Α	Α	А
Coefficient of Energy Efficiency Rated	Heating	COP4	4,26	3,97	3,77	3,77
Design load (Pdesignh)	Heating	kW	4,40	5,6	8,2	10,4
T° operational limit (Tol)	Heating	°C	-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 OWE SUPPLY		I.U. ~ O.U.	O.U.	O.U.	O.U.	O.U.
Input Rated Current (Cooling - Heat	ing)	Α	5,00 - 4,50	7,00 - 7,40	10,8 - 10,3	15,3 - 15,8
Wiring cables i.u./o.u. (without groun	nd)	n°	 (internal and external side terminal board) 	 (internal and external side terminal board) 	 (internal and external side terminal board) 	3 (internal and external side terminal board)
Refrigerant circuit			·		·	
Refrigerant Pipe Liquid/Gas side		mm/inch.	2 x ø6,35(1/4") - 2 x ø9,52(3/8")	2 x ø6,35(1/4") - 2 x ø9,52(3/8")	3 x ø6,35(1/4") – 3 x ø9,52(3/8")	4 x ø6,35(1/4") - 4 x ø9,52(3/8")
Refrigerating pipes adapter 9,53(3/8	3")→ 12,7(1/2")	n.	1	2	2	4
TOTAL Piping Length		m	15 + 15	15 + 15	15 + 15 + 15	15 + 15 + 15 + 15
Max splitting level difference O.U./I.U	J I.U./ O.U.	m	10/10	10/10	10/10	10/10
Refrigerant Precharge		kg	1,55	1,9	2,4	2,7
MAX Splitting with Refrigerant Prech	arge (each I.U.)	m	5	5	5	5
Additional Refrigerant Charge	Liquid Pipe ø1/4"	g/m	15	15	15	15
Temperature range cooling		°C		-15°C ^	-+50°C	
Temperature range heating		°C		-15°C ^	-+24°C	
Indoor unit specifications						
Outdoor Unit	Dimension (WxHxD)	mm	845 700 320	845 700 320	900 860 315	990 965 345
	Net	kg	46	48	62	68
Max noise level 1 m		dB(A)	58	58	59	63
Max power sound level		dB(A)	63	63	67	69

Max air flow

5500

Commission Delegated Regulation (EU) No 626/2011 with regard to energy labelling of air conditioners.

2 Commission Delegated Regulation (EU) No 206/2012. Value measured according to EN14825.

3 Commission Delegated Regulation (EU) No 31/202 with regard to energy labelling of air conditioners.

4 Value measured according to EN14511.

5 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 would be leaked to the atmosphere appliance contains a refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with the refrigerant fluid would be leaked to the atmosphere with



MULTISPLIT MULTI LIBERTY DC INVERTER

INDOOR UNITS*

























WALL





4 power levels: 2.05~5.00 kW.

Ultra-compact design: only 710 mm for the 2.05~2.60 kW models.

Infrared remote control.

HKEU X

								.,			.,			
Model				HKEU 208	-	_	HKEU 268		_	HKEU 358			HKEU 538	
Туре				DC Inverte	r		DC Inverte	r	DC Inverter			DC Inverter		
Capacity	Cooling	kW	2,05			2,60		3,50				'		
Cupacity	Heating	kW		2,30			2,90			3,80			5,20	
Electrical data														
Day yan ay na ah y		Ph-V-Hz	1-2	220~230V-5	OHZ	1-2	20~230V-5	OHZ	1-2	20~230V-5	OHZ	1-1	220~230V-	50HZ
Power supply		I.U.~O.U.		O.U.			O.U.			O.U.			O.U.	
Wiring cables i.u./d	o.u. (without ground)	n°		mal - exterr minal boa			nal - exter minal boo			nal - exter			ernal - exte	
Refrigerant circuit														
Refrigerant Pipe Lie	quid/Gas side	mm/inch.	ø6,35(1/4") - ø9,5	2(3/8'')	ø6,35(1/4") - ø9,5	52(3/8'')	ø6,35(1/4") - ø9,5	52(3/8'')	ø6,35(1/4") - ø12	,70(1/2")
Specifications														
Indoor Unit	Dimension (WxHxD)	mm	710	250	189	710	250	189	790	275	196	930	275	198
INGOOL OLIII	Net	kg		6,5			6,5			8			9	
Noise level 1 m (Hi,	/Mi/Lo)	dB(A)	36	32	28	36	32	28	42	35	29	46	42	36
Sound power leve		dB(A)		49			51			55			59	
Air flow (Hi/Mi/Lo)		m³/h	550	450	350	550	450	350	620	520	400	800	700	600
Drain hose diamet	ter	mm		25			25			25			25	
Remote Controller	r (st. equipment)	type		IR Wireless			IR Wireless	;		IR Wireless			IR Wireles	S
Options														
Wired control									-					

CASSETTE 60x60 - ROUND FLOW



4 power levels: 2.00~5.00 kW.

Ultra-compact cassette.

Pre-set for external air intake connection.

Condensate drain pump.

Panel with 360° air diffusion.

Wide range of oscillation at 40°.

Electrical box inside the body machine.

Easy installation and maintenance.

Infrared remote control.

Model				HTFU 208			HTFU 268)			HTFU 358 X			HTFU 538	
Туре				DC Inverte	r	DC Inverter			DC Inverter			DC Inverter 5.00		
Capacity	Cooling	kW		2,00			2,60		3,50					
Capacity	Heating	kW		2,35			2,90			3,80				
Electrical data														
Power supply		Ph-V-Hz	1-2	20~230V-5	OHZ	1-2	20~230V-5	OHZ	1-2	20~230V-50)HZ	1-2	20~230V-5	OHZ
1 Owel supply		I.U.~O.U.	O.U.			O.U.			O.U.			O.U.		
Wiring cables i.u./o.u. (v	without ground)	n°		mal - exter minal boo			nal - exteri minal boa			nal - exterr minal boa			nal - exter minal boo	
Refrigerant circuit														
Refrigerant Pipe Liquid/	'Gas side	mm/inch.	ø6,35(1/4") - ø9,5	2(3/8")	ø6,35(1/4") - ø9,5	2(3/8")	ø6,35(1/4") - ø9,5	2(3/8")	ø6,35(1	/4") - ø12,	70(1/2")
Specifications														
Indoor Unit	Dimension (WxHxD)	mm	570	260	570	570	260	570	570	260	570	570	260	570
INGOOF OTHE	Net	Kg		17			17			17			18	
Noise level 1 m (Hi/Mi/L	.0)	dB(A)	42	38	34	42	38	34	42	38	34	44	39	35
Sound power level		dB(A)		53			53			54			57	
Air flow (Hi/Mi/Lo)		m³/h	580	510	400	580	510	400	580	550	420	750	700	560
Drain hose diameter		mm		20			20			20			20	
Remote Controller (st. 6	equipment)	type		IR Wireless			IR Wireless			IR Wireless			IR Wireless	
Panel				TFP 352 IHF	?		TFP 352 IHF	?		TFP 352 IHR			TFP 352 IHI	ł
Panel	Dimension (WxHxD)	mm	647	50	647	647	50	647	647	50	647	647	50	647
I UHEI	Net	kg		2,5			2,5			2,5			2,5	
Options														
Wired control								Y	ES					







DUCT MEDIUM STATIC PRESSURE



4 power levels: 2.05~5.00 kW.

Ultra-compact design.

External air intake pre-set.

Air intake from bottom or rear.

Available static pressure: 40 Pa (2.05~3.50 kW);

70 Pa (5.00 kW).

Condensate drain pump included.

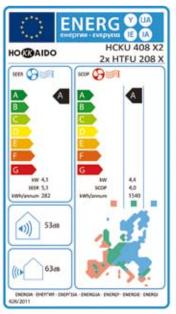
Movable electrical box.

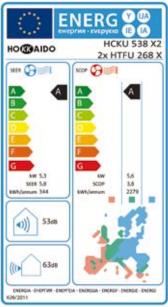
HUCU X

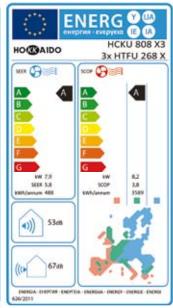
Infrared remote control.

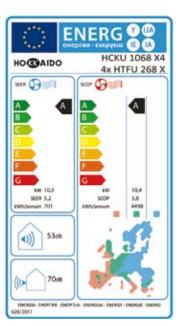
Model			ŀ	IUCU 208	Χ	ŀ	IUCU 268	Χ	Н	IUCU 358	Χ	ŀ	IUCU 538	Χ
Туре				DC Inverte	r		DC Inverte	r	DC Inverter			DC Inverter		r
Cara arait :	Cooling	kW		2,05		2,60		3,50			5,00			
Capacity	Heating	kW		2,35		2,90		3,80			5,20			
Electrical data														
Alimentazione		Ph-V-Hz	1-2	20~230V-5	OHZ	1-2	20~230V-5	OHZ	1-2	20~230V-5	OHZ	1-2	20~230V-5	OHZ
AllTierilazione		I.U.~O.U.		O.U.			O.U.			O.U.			O.U.	
Wiring cables i.u.,	o.u. (without ground)	n°	3 (internal - external side terminal board) terminal board				nal - exteri minal bod			nal - exter minal boo				
Refrigerant circuit	ł .										•			
Refrigerant Pipe L	.iquid/Gas side	mm/inch.	ø6,35(1/4") - ø9,5	2(3/8")	ø6,35(1/4") - ø9,5	2(3/8")	ø6,35(1	1/4") - ø9,5	52(3/8'')	ø6,35(1	/4") - ø12,	70(1/2")
Specifications														
Indoor Unit	Dimension (WxHxD)	mm	700	210	635	700	210	635	700	210	635	920	210	635
ITIQOOF UTIII	Net	kg		20			20			20			23	
Noise level 1 m (H	li/Mi/Lo)	dB(A)	42	37	35	42	37	35	42	39	37	45	37	35
Sound power lev	el	dB(A)		34			34			34			37	
Air flow (Hi/Mi/Lo)		m³/h	800	690	520	800	690	520	1000	850	600	1150	900	600
Available static p	ressure	Pa		40			40			40			70	
Drain hose diame	eter	mm		16			16			16			16	
Remote Controlle	er (st. equipment)	type		IR Wireless			IR Wireless			IR Wireless			IR Wireless	,
Options														
Wired control								Y	ES					

BEST COMBINATIONS





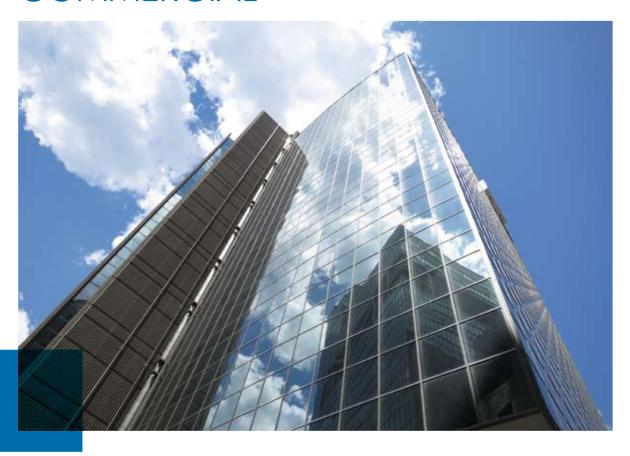








COMMERCIAL





2013

COMMERCIAL

SLIM Cassette 84x84	18
Ceiling/floor	20
Duct Medium Static Pressure	22





COMMERCIAL RANGE 2013



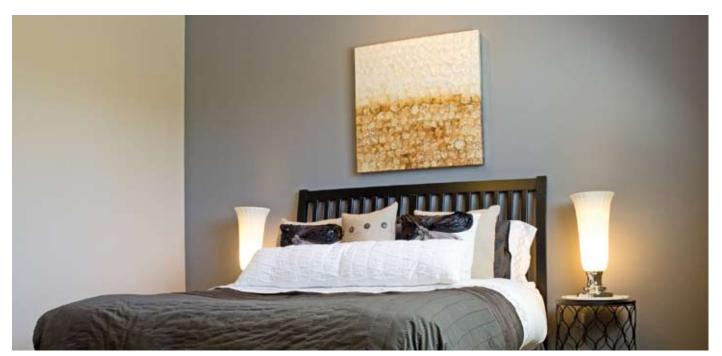
OUTDOOR UNITS



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









3 different types, 5 power levels, 14 models in total.

Indoor units

SLIM Cassette 84x84:

Height 205 mm (Models 538 & 718), motorized panel, 360° air distribution, individual control flaps, new touch screen Wired Control (with motorized panel), possibility of TWIN installation.

New Ceiling/Floor:

New design extremely elegant, vertical & horizontal swinging of air outlet flaps, wide angle of air distribution.

Duct Medium Static Pressure:

Compact design, air intake from bottom or rear, infrared remote control, pre-set for outdoor air connection, electrical box condensate drain pump included.

Outdoor units

Ultra-compact design.

Low noise level.

High efficiency and energy saving.

Operation in cooling mode with outside temperature down to -15° C (5.30~17.60 kW).

Operation in heating mode with outside temperature down to -15° C.

Control and adjustment of refrigerant flow with capillary and electronic expansion valve EXV (Expansion Valve), to maintain optimum performance in all working conditions.

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

- Significant reduction of noise level and vibrations.
- Considerable increase in efficiency at low frequencies.
- Increase in frequency range from 10Hz to 130 Hz.







SLIM CASSETTE 84x84

The Commercial range has been expanded with the introduction of a new compact size Cassette.

It is only 205 mm in height and can be installed even in the most narrow and difficult ceilings.

The new optional panel (TBP-LF 716 \overline{X}) allows for optimal 360° air distribution.

The centre part of the panel is equipped with a motor that is able to lower the filter to facilitate weekly cleaning operations.

Each single air distribution flap can be controlled separately. Pre-setting for access and integration with external air (A).

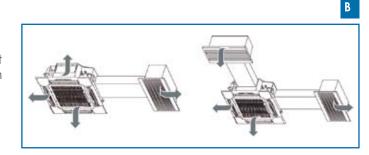




Panel TBP-LF 716 X (optional) ROUND FLOW

Pre-set for ducting air delivery on two sides (B).

Drain pipe of the condensate discharge outlet that allows raising the outlet up to 750 mm from the flush panel.



With the Lift panel the new wired control, optional, with Touch Screen must be used.

- Ability to control the drop-down of the panel for filter cleaning.
- Individual and separate inspection of each of the 4 air diffusion flaps.
- Built-in temperature sensor for Follow me function.



1 Mode 6 Follow me
2 Fan 7 Filter
3 Adjust (Temp.) 8 Select Swing set
4 Timer / Cancel 9 LED intemp
5 Sleep 10 Clock

TWIN combination

For new Slim Cassettes only, there is the possibility of TWIN system for HCSI 1418 X Model.

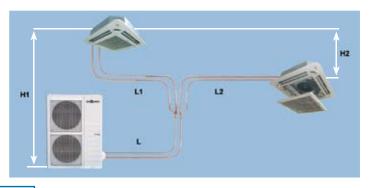
Only one Wired Control is needed. As Units are controlled by only one Wired Control, TWIN application is advised for wide commercial spaces.

In fact, TWIN Indoor Units cannot be controlled individually.

Splitting lengths

MAX length L1 + L2 + L = 50 m Height difference I.U./O.U. H1 = 20 m Height difference I.U./I.U. H2 = 0,5 m





			2 x HTBI 718 X
	Capacity Cooling	kW	14,60
	Power Input Cooling	kW	4,52
-	EER		3,23
	Capacity Heating	kW	15,80
ALL	Power Input Heating	kW	4,21
ARTIN.	COP		3,75
	I.U. Noise level (Lo)	dB(A)	31
	Pipe set		DIS-180-1T
HCSI 1418 X	Control	without Lift Panel	1 x DTW IHXR / DTW 2 IHXR
HC31 1410 X	COMINO	with Lift panel	1 x DTW IHXR Touch
	Interface		-



HTBI X SLIM CASSETTE 84x84





































Model			HTBI 538 X	HTBI 718 X	HTBI 1088 X	HTBI 1418 X				
Model			HCKI 538 X	HCKI 718 X	HCSI 1088 X	HCSI 1418 X				
Туре			DC-Inverter	DC-Inverter	DC-Inverter	DC-Inverter				
Capacity (T=+35° C)	Cooling	W	5270(1578~6077)	7030(1899~7830)	10560(3068~11978)	14060(4346~15484)				
Power Input (T=+35° C)	Cooling	W	1460(310~2030)	2130(380~2620)	3290(600~4250)	4380(1200~6010)				
Annual Consumption	Cooling	kWh/a	331	400	680	, ,				
Energy efficiency class seasonal	Cooling	626/20111	A+	A++	A					
Energy efficiency seasonal index	Cooling	SEER2	5,6	6,2	5,4					
Energy Efficiency Rated	Cooling	31/20023		-,	-,	A				
Coefficient of Energy Efficiency Rated	Cooling	EER4				3.21				
Design load (Pdesignc)	Cooling	kW	5.30	7.10	10.50	-,				
Capacity (T=+7°C)	Heating	W	5870(1607~6574)	7626(1987~8473)	11150(3155~12504)	16400(4908~18260)				
Power Input (T=+7° C)	Heating	W	1460(280~2020)	2050(370~2630)	3260(600~4250)	4420(1170~5910)				
Annual Consumption	Heating	kWh/a	2182	2951	3788					
Energy efficiency class (average season)	Heating	626/20111	A	A	A					
Energy efficiency seasonal index										
(average season)	Heating	SCOP2	3,4	3,7	3,4					
Energy Efficiency Rated	Heating	31/20023				A				
Coefficient of Energy Efficiency Rated	Heating	COP4	F.00	7.00	0.00	3,71				
Design load (Pdesignh)	Heating	kW	5,30	7,80	9,20					
T° operational limit (Tol)	Heating	°C	-15	-15	-15					
Power supply		Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ	3-380~400V-50HZ	3-380~400V-50HZ				
117		I.U.~O.U.	I.U. + O.U.	I.U. + O.U.	I.U. + O.U.	I.U. + O.U.				
Current consumption (MAX)		Α	15	15	11	13,5				
Wiring cables i.u./o.u. (without ground)		n°	STP(2 plus + ordinary one)	STP(2 plus + ordinary one)	STP(2 plus + ordinary one)	STP(2 plus + ordinary one				
Refrigerant circuit										
Refrigerant Pipe Liquid/Gas side		mm/inch.		ø9,52(3/8") - ø15,88(5/8")						
Max splitting distance indoor/outdoor		m	30	50	65	65				
Max splitting level difference I.U./O.U.		m	20/9	25/9	30/20	30/20				
Refrigerant (GWP) ⁵			R410A(1975)	R410A(1975)	R410A(1975)	R410A(1975)				
Refrigerant Precharge		kg	1,80	2,20	2,70	3,80				
MAX Splitting with Refrigerant Precharge		m	5	5	5	5				
Additional Refrigerant Charge		g/m	15	30	30	30				
Temperature range Cooling		°C	-15°C ~ +50°C	-15°C ~ +50°C	-15°C ~ +50°C	-15°C ~ +50°C				
Temperature range Heating		°C	-15°C ~ +24°C	-15°C ~ +24°C	-15°C ~ +24°C	-15°C ~ +24°C				
Indoor Unit specifications			'			'				
	Dimension (WxHxD)	mm	840 205 840	840 205 840	840 245 840	840 300 840				
Indoor Unit	Net	kg	22	22	25	31				
Noise level - I.U.	Hi-Mi-Lo	dB(A)	47 43 36	49 45 41	54 51 47	53 50 46				
Sound power level - I.U.	Hi-Mi-Lo	dB(A)	58	59	65					
Air flow (Hi/Mi/Lo)		m ³ /h	1150 950 800	1250 1050 900	2010 1750 1480	2100 1750 1500				
Drain hose diameter		mm	32	32	32	32				
Remote Controller (st. equipment)		Type	IR Wireless	IR Wireless	IR Wireless	IR Wireless				
Outdoor Unit Specifications		./								
Outdoor Unit	Dimension (WxHxD)	mm	842 695 324	895 862 313	990 966 354	940 1369 392				
Naire level OII	Net	kg	44	59	77	102				
Noise level - O.U.	Hi-Mi-Lo	dB(A)	58	62	63	63				
Sound power level - O.U.	Hi-Mi-Lo	dB(A)	65	69	70	69				
Max air flow		m3/h	2500	3500	5500	7200				
Accessories			#BB #44.14							
nel			TBP 716 X	TBP 716 X	TBP 716 X	TBP 716 X				
Panel	Dimension (WxHxD) Net	mm kg	950 55 950 5	950 55 950 5	950 55 950 5	950 55 950 5				
Options										
LIFT panel			TBP-LF 716 X	TBP-LF 716 X	TBP-LF 716 X	TBP-LF 716 X				
Wired control					2 IHXR / DTWS IHXR					
Wired control (with Lift Panel)				<u> </u>	XR Touch					
Centralized control					DTCWT IHXR					
Weekly timer			DTWT IHXR							
,				D111						



¹ Commission Delegated Regulation (EU) No 626/2011 with regard to energy labelling of air conditioners.
2 Commission Delegated Regulation (EU) No 206/2012. Value measured according to EN14825.
3 Commission Delegated Regulation (EU) No 31/202 with regard to energy labelling of air conditioners.
4 Value measured according to EN14511.
5 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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 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.

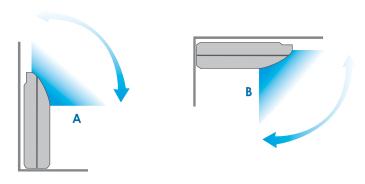


CEILING/FLOOR

new

New design simple and elegant, for residential, commercial and industrial applications.

Vertical swinging of air outlet flaps, both in floor type installation (A) and ceiling type installation (B).















HSFI X CEILING/FLOOR



















Model				SFI 538 CKI 538			SFI 718 CKI 718			1 1088 1 1088			1 1418 31 1418			FI 1768 SI 1768	
Туре				C-Invert			C-Inver			-Invert			-Inver			:-Invert	
Capacity (T=+35°C)	Cooling	W	5274	(1578~6	077)	7050	(1899~	7830)	10565(3	3068~1	2037)	14070(4	4323~1	5542)	16360	4908~1	7967
Power Input (T=+35° C)	Cooling	W	1445	5(300~20	020)	2100	(380~2	2610)	3270(600~4250)		4380(1200~6	(000	5110	(1370~6	930)	
Annual Consumption	Cooling	kWh/a		331			463			645							
Energy efficiency class seasonal	Cooling	626/20111		A+			A+			A+							
Energy efficiency seasonal index	Cooling	SEER2		5,6			5,6			5,8							
Energy Efficiency Rated	Cooling	31/20023			-,-				А				Α				
Coefficient of Energy Efficiency Rated	Cooling	EER4											3.21			3.21	
Design load (Pdesignc)	Cooling	kW		5.30			7,10			10.70			-,-:			-,	
Capacity (T=+7°C)	Heating	W	5863	(1607~6	6611	7635	(1987~	8502)	11150(3	-,	25631	16450(4	4908~1	8348)	16950	5750~2	089
Power Input (T=+7° C)	Heating	W)(280~20			(370~2	,		590~4			1170~5			1390~6	
Annual Consumption	Heating	kWh/a	1 100	2061	5001	2000	2955	2020)		3912	1201	1120	1170	,, 101	0200	1070 0	700
Energy efficiency class (average season)	Heating	626/20111		A			A			A							
Energy efficiency seasonal index (average season)	Heating	SCOP2		3,6			3,6			3,4							
Energy Efficiency Rated	Heating	31/20023											Α			Α	
Coefficient of Energy Efficiency Rated	Heating	COP4											3,72			3,61	_
Design load (Pdesignh)	Heating	kW		5.30			7,60			9.50			J,/ Z			3,01	_
To operational limit (Tol)	Heating	°C		-15			-15			-1.5							-
1° operational ilittiii (tol)	пеанпу	Ph-V-Hz	1 000	-15)~240V	EOL 17	1 000	-15)~240V	/ FOL 17	3-380~		EOL 17	2 200	~400V-	EOL 17	2 200	~400V	EOL I
Power supply		I.U. + O.U.		J~240√ U. + O.L													
Comment and the state of the st			1.1		J.	I.U. + O.U. 15		I.U. + O.U.			l. + O.l			J. + O.U			
rrent consumption (MAX)		Α		15 STP			STP			STP		/,0	58 - 7,2 STP	./	Ö	,9 - 9,43 STP	
Wiring cables i.u./o.u. (without ground)		n°	(2 plus		y one)	(2 plus		ary one)	(2 plus +		y one)	(2 plus +		ry one)	(2 plus -		y on
Refrigerant circuit		I		() [() ()	!!\		2.52(3/8	0117	-0	52(3/8	111	0	.52(3/8	111	-0	.52(3/8	111
Refrigerant Pipe Liquid/Gas side		mm/inch.		3,35(1/4 12,7(1/2			5,88(5			5,88(5/			5,88(5)			5,88(5/	
Max splitting distance indoor/outdoor		m	30		50		65			65				65			
Max splitting level difference I.U./O.U.		m	20/9		25/9 R410A(1975)		30/12 R410A(1975)		30/20 R410A(1975)			30/20					
Refrigerant (GWP) ⁵			R4	10A(197	(5)	R4	١	7/5)			(5)	R41	- 1	/5)	R4	10A(197	5)
Refrigerant Precharge		kg		1,80			2,20			2,70			3,80			4,60	
MAX Splitting with Refrigerant Precharge		m		5			5			5			5			5	
Additional Refrigerant Charge		g/m		15			30			30			30			30	
Temperature range Cooling		°C		°C ~ +50		_	°C ~ +5			~ +50		_	C ~ +5			$C \sim +50$	
Temperature range Heating		°C	-15°	°C ~ +24	4°C	-15°	°C ~ +2	24°C	-15°C	C ~ +24	4°C	-15°0	C ~ +2	4°C	-15°	C ~ +24	P°C
Indoor Unit specifications																	
Indoor Unit	Dimension (WxHxD)	mm	1068	675	235	1068	675	235	1285	675	235	1650	675	235	1650	675	235
	Net	kg		25			25			30			38			38	
Noise level - I.U.	Hi-Mi-Lo	dB(A)	42	37	34	43	38	35	52	49	46	54	51	47	54	51	47
Sound power level - I.U.	Hi-Mi-Lo	dB(A)		56			62			63							
Air flow (Hi/Mi/Lo)		m3/h	900	750	600	1300	1100	950	1850	1650	1450	2300	1900	1700	2300	1900	170
Drain hose diameter		mm		25			25			25			25			25	
Remote Controller (st. equipment)		Type	IR	Wireles	SS	IR	Wirele	ess	IR \	Wireles	SS	IR	Wirele	SS	IR	Wireles	S
Outdoor Unit Specifications																	
Outdoor Unit	Dimension (WxHxD) Net	mm kg	842	695	324	895	862 59	313	990	966 77	354	940	1369	392	940	1369	392
Noise level - O.U.	Hi-Mi-Lo	dB(A)	58			62			63			63			63		
Sound power level - O.U.	Hi-Mi-Lo	dB(A)		65			69			70			69			69	
Max air flow	I II-IVII-LU	m ³ /h		2500			3500			5500			7200			7200	
Options		1119/11		2300			3300			5500			7200			7200	
•								STIM HAS	(D / DTM	0 1117	D / DT	MC IIIVE					
Wired control							L	לאו Wic				WS IHXR					
Centralized control									וט	C IHXE	(

¹ Commission Delegated Regulation (EU) No 626/2011 with regard to energy labelling of air conditioners.
2 Commission Delegated Regulation (EU) No 206/2012. Value measured according to EN14825.
3 Commission Delegated Regulation (EU) No 31/202 with regard to energy labelling of air conditioners.
4 Value measured according to EN14511.
5 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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 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.



HUCI X DUCT MEDIUM STATIC PRESSURE























Model			HUCI 538 X	HUCI 718 X	HUCI 1088 X	HUCI 1418 X	HUCI 1768 X
Time			HCKI 538 X	HCKI 718 X	HCSI 1088 X	HCSI 1418 X	HCSI 1768 X
Type	Caalina	14/	DC-Inverter	DC-Inverter	DC-Inverter	DC-Inverter	DC-Inverter
Capacity (T=+35° C)	Cooling	W	5285(1578~6048)	7038(1899~7888)		14060(4324~15630)	
Power Input (T=+35° C)	Cooling		1460(300~2020)	2070(370~2610)	3260(600~4240)	4380(1200~6000)	5200(1380~7050
Annual Consumption	Cooling	kWh/a	320	443	720		
Energy efficiency class seasonal	Cooling	626/20111	A+	A+	A		
Energy efficiency seasonal index	Cooling	SEER2	5,8	5,6	5,1	A	
Energy Efficiency Rated	Cooling	31/20023				A	A
Coefficient of Energy Efficiency Rated	Cooling	EER4	5.00	7.10	10.50	3,21	3,21
Design load (Pdesignc)	Cooling	kW	5,30	7,10	10,50	17010/40/7 10550	100/0/5705 100/
Capacity (T=+7°C)	Heating	W	5860(1607~6661)	7600(1987~8531)	11135(3155~12563)		19060(5785~1826
Power Input (T=+7° C)	Heating	W	1465(290~2010)	2000(370~2610)	3050(580~4090)	4560(1180~5920)	5220(1390~6990
Annual Consumption	Heating	kWh/a	2182	3170	3912		
Energy efficiency class (average season)	Heating	626/20111	A	A	A		
Energy efficiency seasonal index (average season)	Heating	SCOP2	3,4	3,4	3,4		
Energy Efficiency Rated	Heating	31/20023				A	Α
Coefficient of Energy Efficiency Rated	Heating	COP4				3,73	3,65
Design load (Pdesignh)	Heating	kW	5,30	7,70	9,50		
T° operational limit (Tol)	Heating	°C	-15	-15	-15		
Power supply		Ph-V-Hz	1-220~240V-50HZ	1-220~240V-50HZ	3-380~400V-50HZ	3-380~400V-50HZ	3-380~400V-50H
ower supply		I.U. + O.U.	I.U. + O.U.	I.U. + O.U.	I.U. + O.U.	I.U. + O.U.	I.U. + O.U.
Current consumption (MAX)		Α	15	15	11	13,5	13,5
Wiring cables i.u./o.u. (without ground)		n°	STP (2 plus + ordinary one)	STP (2 plus + ordinary one)	STP (2 plus + ordinary one)	STP (2 plus + ordinary one)	STP (2 plus + ordinary or
Refrigerant circuit							
Refrigerant Pipe Liquid/Gas side		mm/inch.	ø6,35(1/4") - ø12,7(1/2")	ø9,52(3/8") - ø15,88(5/8"	ø9,52(3/8'') - ø15,88(5/8'')) ø9,52(3/8'') - ø15,88(5/8'')	ø9,52(3/8") - ø15,88(5/
Max splitting distance indoor/outdoor		m	30	50	65	65	65
Max splitting level difference I.U./O.U.		m	20/9	25/9	30/12	30/20	30/20
Refrigerant (GWP) ⁵			R410A(1975)	R410A(1975)	R410A(1975)	R410A(1975)	R410A(1975)
Refrigerant Precharge		kg	1,80	2,20	2,70	3,80	4,60
MAX Splitting with Refrigerant Precharge		m	5	5	5	5	5
Additional Refrigerant Charge		g/m	15	30	30	30	30
Temperature range Cooling		°C	-15°C ~ +50°C	-15°C ~ +50°C	-15°C ~ +50°C	-15°C ~ +50°C	-15°C ~ +50°C
Temperature range Heating		°C	-15°C ~ +24°C	-15°C ~ +24°C	-15°C ~ +24°C	-15°C ~ +24°C	-15°C ~ +24°C
Indoor Unit specifications							
	Dimension (WxHxD)	mm	920 210 635	920 270 635	1140 270 775	1200 300 865	1200 300 865
Indoor Unit	Net	Kg	22	26,5	35	45	45
Noise level - I.U.	Hi-Mi-Lo	dB(A)	42 38 36	42 39 36	47 44 38	46 41 37	46 41 37
Sound power level - I.U.	Hi-Mi-Lo	dB(A)	59	58	65		
Air flow (Hi/Mi/Lo)		m ³ /h	850 700 550	1150 1000 850	1850 1550 1200	3010 2410 1940	3010 2410 194
Available static pressure		Pa	70	70	80	100	100
Air discharge flange	Dimension (WxH)	mm	713x119	713x179	933x179	968x204	968x204
Drain hose diameter		mm	25	25	25	25	25
Remote Controller (st. equipment)		Type	IR Wireless	IR Wireless	IR Wireless	IR Wireless	IR Wireless
Outdoor Unit Specifications		.,,,,,,					
Outdoor Unit	Dimension (WxHxD) Net	mm kg	842 695 324	895 862 313 59	990 966 354 77	940 1369 392	940 1369 392
Noise level - O.U.	Hi-Mi-Lo	dB(A)	58	62	63	63	63
Sound power level - O.U.	Hi-Mi-Lo	dB(A)	65	69	70	69	69
Max air flow	T II-IVII-LO	m3/h	2500	3500	5500	7200	7200
Options		1110/11	2500	3300	3300	7200	7200
Wired control				DTW/III	YP / DTW 2 ILLYD / DT	AKHI SW.	
Centralized control			DTW IHXR / DTW 2 IHXR / DTWS IHXR				
					OTC IHXR / DTCWT IHX	ΛR	
Weekly timer					DTWT IHXR		

¹ Commission Delegated Regulation (EU) No 626/2011 with regard to energy labelling of air conditioners.
2 Commission Delegated Regulation (EU) No 206/2012. Value measured according to EN14825.
3 Commission Delegated Regulation (EU) No 31/202 with regard to energy labelling of air conditioners.
4 Value measured according to EN14511.
5 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 1975. This means that if 1 kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be 1975 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.







Mobile	24
Dehumidifiers	25
Heat pump water heater Hot Water 190C Hot Water 300A	26 27
Heat exchanger	29

Mobile

TMCZ 105 F

new

Cooling, heating effect and dehumidification.

Cooling capacity: 3.0 kW.

LED display.

4 air ventilation speeds (during cooling).

Timer function for on delay (in hours).

Timer function for off delay (in hours).

Sleep feature for night-time function.

Infrared remote control.

Window slide kit.

Dual condensate drain modes.

Extendable corrugated pipe with inner recovery.





Model	TMCZ 105 F		
Power supply	Ph-V-Hz	1-220~240-50	
Nominal capacity in cooling mode	P _{rated} for cooling	kW	3,00
Rated power input for cooling	P _{EER}	kW	1,20
Rated energy efficiency index		EERd	2,60
Energy efficiency class in cooling mode			A
Energy consumption for equipments with single duct cooling function	Q _{SD}	kWh/h	1,10
Nominal capacity in heating mode	P _{rated} for heating	kW	3,00
Rated power input for heating	kW	1,00	
Coefficient of nominal efficiency	COPd	3,10	
Energy efficiency class in heating mode			A++
Energy consumption for equipments with single duct heating function	Q _{SD}	kWh/h	0,80
Sound power level	Lwa	dB(A)	62
Sound pressure level		dB(A)	52
Refrigerant		Туре	R410A
Global warming potential	GWP	kgCO ₂ eq.	1975
Dimensions	(WxHxD)	mm	300x778x505
Net weight		kg	28
Dehumidifying capacity	L/h	4,6	
Air flow	m ³ /h	400	
Air aylagust flayilala pina		mm (Ø)	150
Air exhaust flexible pipe		mm (Length)	210~1400

Dehumidifiers

DT16-A1 - DT80-A1

new

Residential dehumidifying (16 L/day).

R134A refrigerant.

LED display.

2 air ventilation speeds.

Timer function for on delay (in hours).

Timer function for off delay (in hours).

Digital hygrostat for detecting and controlling humidity.

Possibility of setting desired humidity level.

2.50 L tank.

Possibility of continuous drainage.



DT16-A1

Large capacity dehumidification (80 L/day).

R410A refrigerant.

LED display.

2 air ventilation speeds.

Timer function for on delay (in hours).

Timer function for off delay (in hours).

Digital hygrostat for detecting and controlling humidity.

Possibility of setting desired humidity level.

9.00 L tank.

Possibility of continuous drainage.



DT80-A1

Model			DT16-A1	DT80-A1
Power supply		Ph-V-Hz	1-220~240-50	1-220~240-50
Nominal capacity of dehumdifying	(30° C RH80%)	lt/day	16	80
Control			Electronic	Electronic
Type of defrost			Fan	Fan
Defrosting			Automatic	Automatic
Humidity detection and control			Digital hygrostat	Digital hygrostat
Consumption		W/h	410	1100
Sound pressure level		dB(A)	42	48
Air flow		m³/h	126	135
Current intensity		А	1,80	5,00
Capacity of the tank supplied		L	2,50	9,00
Range of use		°C	5° ~ 35°	5° ~ 35°
Refrigerant		Туре	R134A	R410A
Dimensions	(WxHxD)	mm	365x490x215	300x625x505
Net weight		kg	13,2	21

Heat pump water heater TWMI 190C

65° C max temperature of domestic hot water.

Actual COP 3.50.

Wide range of operating ambient temperatures: $5^{\circ} \sim 43^{\circ}$ C.

Speed of reaching heating capacity with cold start: 260 minutes (with incoming water temperature of 15° C, outgoing water temperature of 45° C and ambient temperature of 15° C).

Minimum tank dispersions: -2.2° C in 24 hours with ambient temperature 15° C and average temperature of the tank of 43° C.

Anti-legionella function: 70° C (activating the electrical resistor).

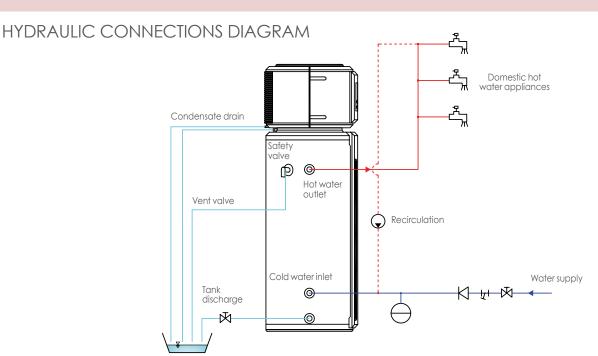
Customisable **programming**: timer for time bands, very useful in case of reduced rates at night.



Model		TWMI 190 C
Operating Mode		Heat Pump
Operating Range		+5°C~+43°C
Power supply		220~240V-1ph-50Hz
Total Tank Capacity	L	190
Electric Heater	kW	1,00
Noise level	dB(A)	48
Dimensions (DxH)	mm	ø568x1580
Weight	kg	101
Refrigerant Gas (Type/Quantity)	kg	R134A/0,80
Hydraulic pipeline	mm	DN20
COP*	W/W	3,50
COP DHW**	W/W	2,76
Tank Dispersion 24/h (43°C Average temp.)	°℃	2,2° C
Full Heating Capacity (Inlet Temp. 15°C / Output temp. 45°C)	min.	260
Max. hot water available during rapid tank emptying	L	157 (min. 40,4° C)
Full Heating Capacity Power consumption	kWh	2,0
Hourly Absorption	kWh	0,42

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

Maximum temperature of hot water produced: with 65° C max compressor for 5°~43° C outside. With 70° C max electrical resistance for -30°~43° C outside.



TWMI 300A

Domestic **hot water** from 45° C to 60° C only when the heat pump is operating.

Actual COP 3.41

Model Operating Mode

Operating Range

Total Tank Capacity

Power supply

Electric Heater

Dimensions (DxH)

Hydraulic pipeline

Hourly Absorption

COP DHW**

Refrigerant Gas (Type/Quantity)

Tank Dispersion 24/h (Average temp. 43°C)

Full Heating Capacity Power consumption

Noise level

Weight

COP*

Wide range of operating ambient temperatures: 7°~ 43° C.

Speed of reaching heating capacity with cold start: 203 minutes with incoming water temperature of 15° C, outgoing water temperature of 45° C and ambient temperature of 15° C.

Minimum tank dispersions: -1.8° C in 24 hours with ambient temperature 15° C and average temperature of the tank 43° C.

Anti-legionella function: the built-in DHWT-IHA kit is programmed to activate a periodic weekly cycle that brings the water temperature to 70° C (through the use of the electrical resistor).

Customisable programming: timer for time bands, very useful in case of reduced rates at night.

Defrost function: all the units are equipped with automatic defrost valves.

Integrated heat exchanger for additional solar system.



	100000000000000000000000000000000000000	
MI 300 A		
eat Pump		
C~+43° C		
40V-1ph-50Hz		
300		
1,50		
46,6		
650x1920		
123		
34A/1,20		
DN20		
3,41		
2,98		
1,8° C		

TWMI 30

Heat Pu

-7° C~+₄

ø650x1

R134A/

293 (min. 40,1° C)

2.90

0,88

0,7

220~240V-1

Full Heating Capacity (Inlet Temp. 15° C / Output temp. 45° C)

Max. hot water available during rapid tank emptying

Maximum temperature of hot water produced: with 60° C max compressor for 7°~43° C outside, 55° C max for 2°~7° C outside, 50° C max for -2°~2° C outside, 45° C max for -7°~-2° C outside. With 60° C max electrical resistance; 70° C for anti-legionella cycle.

kW

dB(A)

mm

kg

kg

mm

W/W

W/W

min.

Lt

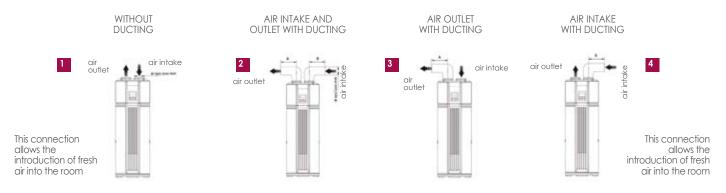
kWh

kWh

m³

4 METHODS OF INSTALLATION

30Pa static pressure allows ducts up to 10 metres (max 5 bends) for conveying cold water to the outside, or inside of rooms to be cooled during summer time.

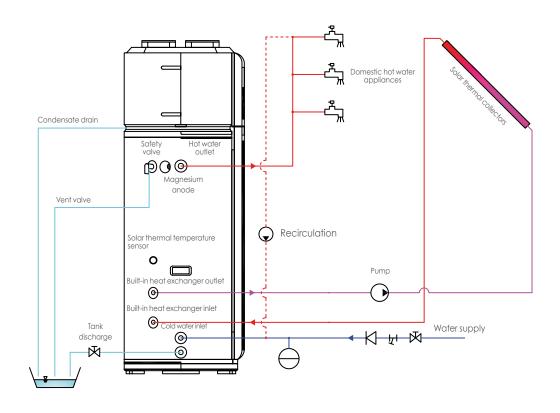




Built-in heat exchanger * (Air 15/12 °C - Water 15/45 °C); ** (EN 16147 tapping cycle "L").

TWMI 300A

HYDRAULIC CONNECTIONS DIAGRAM





Heat exchanger

ETIN 201~1001 - ETIS 1501~380V

8 power levels: 200~2000 m³/h.

Compact size and ultra lightweight.

Low acoustic impact: only 27 dB(A) for 200 m³/h model.

Wired remote control supplied standard.

The ventilation units with heat recovery are suited for use in bars, offices, gyms, changing rooms and all spaces where it is necessary to circulate the air due to the presence of polluting or toxic substances.

The units consist of two centrifugal fans: one introduces clean air filtered from outside and one expels the stale air from the inside.

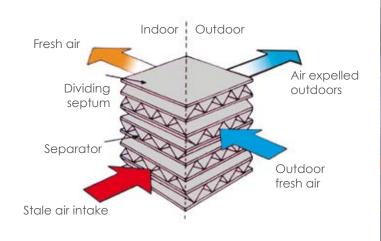
The two air flows go through one blade heat exchanger in which part of the heat is recovered. The indoor air heats or cools the outdoor air that is introduced without coming into contact with it.



ETIN 201~1001



ETIS 1501~2001 380V





Model			ETIN 201	ETIN 201 ETIN 301 ETIN 401 ETIN 501 ETIN 801 ETIN 1001				ETIS 1501	ETIS 2001	
Power supply		Ph-V-Hz			1-220~	240-50			3-380~	415-50
Power input		W	20	40	80	120	30	60	900	1100
Input Rated Current		Α	0,5	0,56	1	1	2	2,4	3,2	3,6
Air flow		m3/h	200	300	400	500	800	1000	1500	2000
Available Static Pressure		Pa	7	75 80 100			00	160	170	
Enthalpy exch. Efficiency	(winter)(*)	%	5	55 60						
Enthalpy exch. Efficiency	(summer) (*)	%				5	0			
Body size	(DxHxW)	mm	666x264x655	744x270x599	744x270x804	824x270x904	1116x388x884	1116x388x1134	1500x540x1200	1550x540x1400
Flange	diameter/depth	mm		ø144/100		ø194/100	ø242	2/100	370x3	50/50
Net		kg	22	22 23 30		35,5	57,5	59	160	175
Max Noise level 1,5 m		dB(A)	27	27 30 32		35	39	40	51	53
Max Noise level 2,5 m		dB(A)	20	23	25	28	32	33	44	46

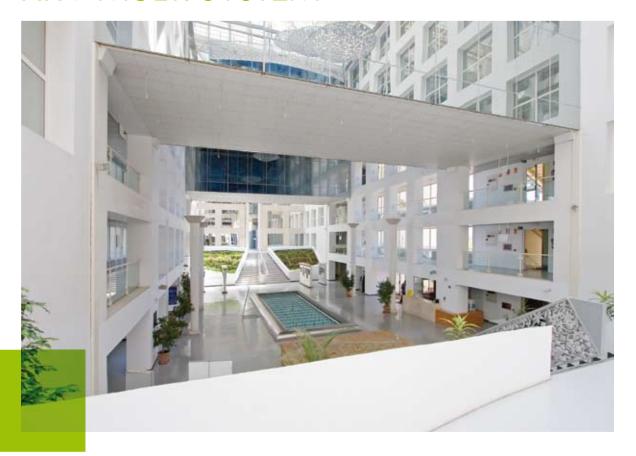
(*) Following EN	DB	Relative humidity	
WINTER	Outdoor air	-5°C	80%
Heating	Indoor air	20°C	50%

(*) Following EN	DB	Relative humidity	
SUMMER	Outdoor air	32°C	50%
Cooling	Indoor air	26°C	50%





XRV MULTI SYSTEM



2013

XRV MULTI SYSTEM

MINI XRV Heat pump	33
XRV SYSTEMS Heat pump	34
Indoor units	42

XRV MULTI SYSTEM DC INVERTER

XRV SYSTEMS WITH HEAT PUMP

MINI XRV

6НР	
three-phase	
HCSU 1551 XRV	



XRV SYSTEMS

XRV three-phase single units

8HP	10HP	12HP	14HP	16HP
HCSU 2501 XRV-2	HCSU 3001 XRV-2	HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV

XRV three-phase combined units

18HP	20HP	22HP	24HP	26HP
8+10	10+10	10+12	10+14	10+16
HCSU 2501 XRV-2	HCSU 3001 XRV-2	HCSU 3001 XRV-2	HCSU 3001 XRV-2	HCSU 3001 XRV-2
HCSU 3001 XRV-2	HCSU 3001 XRV-2	HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV
28HP	30HP	32HP	34HP	36HP
12+16	14+16	16+16	10+10+14	10+10+16
HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV	HCSU 3001 XRV-2	HCSU 3001 XRV-2
HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 3001 XRV-2	HCSU 3001 XRV-2
			HCSU 4001 XRV	HCSU 4501 XRV
38HP	40HP	42HP	44HP	46HP
10+12+14	10+14+16	10+16+16	12+16+16	14+16+16
HCSU 3001 XRV-2	HCSU 3001 XRV-2	HCSU 3001 XRV-2	HCSU 3501 XRV	HCSU 4001 XRV
HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV
HCSU 4001 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV
48HP	50HP	52HP	54HP	56HP
16+16+16	12+12+12+14	12+12+12+16	12+12+14+16	12+12+16+16
HCSU 4501 XRV	HCSU 3501 XRV	HCSU 3501 XRV	HCSU 3501 XRV	HCSU 3501 XRV
HCSU 4501 XRV	HCSU 3501 XRV	HCSU 3501 XRV	HCSU 3501 XRV	HCSU 3501 XRV
HCSU 4501 XRV	HCSU 3501 XRV	HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV
11C30 4301 XKV	HCSU 4001 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV
58HP	60HP	62HP	64HP	
10+16+16+16	12+16+16+16	14+16+16+16	16+16+16+16	
HCSU 3001 XRV-2	HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV	
HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	
HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	
HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	HCSU 4501 XRV	

Thanks to its continued efforts on technological research and its long experience in the heating/cooling systems market in Italy and Europe, Hokkaido has introduced the XRV Systems, a product that is a candidate for a leading role in the VRF systems market.

Efficiency, reliability and applicable flexibility, are the quality solutions that the XRV systems offer for the various application requirements of installers, designers and final customers.

The mini XRV units are especially suited for residential and light commercial applications.

The XRV system fully meets new air conditioning requirements of medium and large buildings.

XRV MULTI SYSTEM DC INVERTER

MINI XRV WITH HEAT PUMP

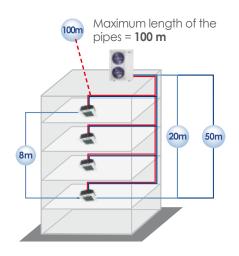
HCSU 1551 XRV 15,5 kW (3Ph)





Maximum distance between the outdoor unit and the farthest indoor unit = **50 m**Maximum distance from the first branch pipe to the farthest indoor unit = **20 m**Maximum height difference between the outdoor unit

(up high) and the indoor units = **20 m**Maximum height difference between the outdoor unit (down low) and the indoor units = **20 m**Maximum height difference between indoor units = **8 m**Maximum length of the pipes = **100 m**



Model		HCSU 1551 XRV	
Cooling capacity (1)	kW	15,50	
Heating capacity (2)	kW	18,00	
Electrical data			
Power supply	Ph-V-Hz	3-380~415-50	
Electrical power absorption in cooling mode (fully operational)	kW / A	4,25 / 8,0	
Electrical power absorption in heating mode (fully operational)	kW / A	4,45 / 8,34	
EER coeff. performance cooling	W/W	3,65	
COP coeff. performance heating	W/W	4,04	
Refrigerant circuit			
Refrigerant	type	R410A	
Compressor	type	Scroll DC Inverter HITACHI	
Air flow fan (Lo/Hi)	m³/h	4300/6500	
Sound pressure level at 1 m (Lo/Hi)	dB(A)	56/57	
Sound pressure level at 2,5 m (Lo/Hi)	dB(A)	48/49	
Refrigerant pipes Liquid/Gas side	mm/inch.	ø9,53 (3/8") - ø15,9 (5/8")	
Total pipe length	m	100	
Max height difference (i.ui.u.)	m	8	
Max height difference (o.ui.u.)	m	20	
Temp. range cooling	°C / DB	-15°C / 48°C	
Temp. range heating	°C / WB	-15°C / 21°C	
No. connectable i.u.	n°	7	
Capacity of the connected i.u.	%	50 - 130	
Size and weight			
Dimension (WxHxD)	mm	940x1245x400	
Net weight	kg	115	

Notes

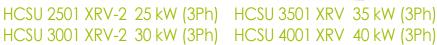
(1) Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° C WB.
(2) Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7° C DB, 6° C WB and indoor temperature 20° C DB, 15° C WB.



XRV MULTI SYSTEM DC INVERTER

XRV SYSTEMS WITH HEAT PUMP







HCSU 4501 XRV 45 kW (3Ph)



Maximum distance between the outdoor unit and the farthest indoor unit = 175 m

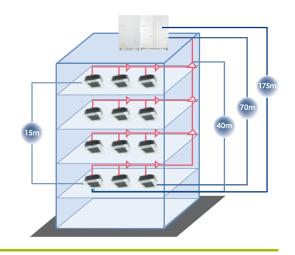
Maximum distance from the first branch pipe to the farthest indoor unit = 40 m

Maximum height difference between the outdoor unit (up high) and the indoor units = **70 m**

Maximum height difference between the outdoor unit (down low) and the indoor units = 40 m

Maximum height difference between indoor units = 15 m

Maximum length of the pipes = 500 m (>30HP) or 350 m (\leq 30HP)



Refrigeration system

Connection between the units and the system



Gas and oil parallel connection

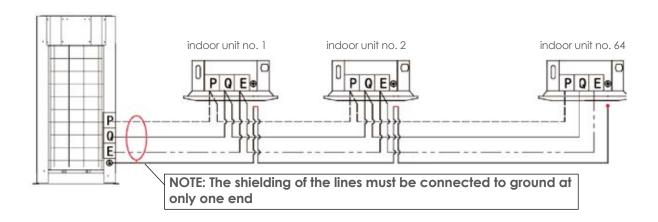


When 2-3-4 outdoor units are combined, a connection to balance the gas pressure and the level of oil in the compressors must be created.

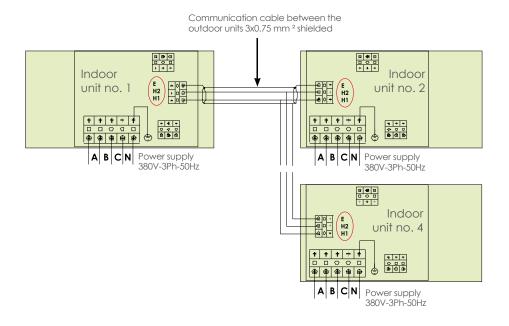
XRV SYSTEMS WITH HEAT PUMP

Electrical system

Communication cable between outdoor and indoor units



Connection between the XRV outdoor units (max 4 units)



Branch pipes

(6	Branch pipes for XRV Systems (downstream of the first branch pipe)							
Code	A - Capacity of the connectible indoor units (kW)							
DIS-22-1T	A<16,8							
DIC 100 1T	16,8≤A<22,4							
DIS-180-1T	22,4≤A<33,0							
DIS-371-1T	33,0≤A<47,0							
DI3-3/1-11	47,0≤A<71,0							
DIS-540-1H	71,0≤A<104,0							
DI3-340-111	104,0≤A<134,4							
DIS-1344-1H	134,4≤A							

Branch pipe kit for outdoor unit connection						
Code	Outdoor units					
DOS 2-1H	Two outdoor unit kit					
DOS 3-1H	Three outdoor unit kit					
DOS 4-1H	Four outdoor unit kit					
OH-BAL-KT* T-shaped fitting for oil parallel pipe						
GH-BAL-KT*	T-shaped fitting for gas parallel pipe					

^{*} Included in the DOS 3-1H and DOS 4-1H kits



XRV SYSTEMS WITH HEAT PUMP

The range is characterised by 5 basic modules: 8, 10, 12, 14 and 16HP.

The outdoor units can also be combined up to 4 modules, for a maximum of 64HP, on a single system.





Model / Combination			HCSU 2501 XRV-2	HCSU 3001 XRV-2	HCSU 3501 XRV	HCSU 4001 XRV	HCSU 4501 XRV	
Power		HP	8	10	12	14	16	
Cooling capacity (1) kW			25,00	30,00	35,00	40,00	45,00	
Heating capacity (2)		kW	28,00	33,00	38,00	45,00	50,00	
Electrical data								
Power supply		Ph-V-Hz			3-380~415-50			
Electrical power absorption in cooling r	mode (fully operational)	kW / A	7,13 / 10,3	8,17 / 13,1	9,84 / 16,7	11,36 / 20,7	12,94 / 23,7	
Electrical power absorption in heating r	mode (fully operational)	kW / A	6,88 / 10,5	7,98 / 13,0	9,21 / 15,3	10,87 / 18,9	12,12 / 21,3	
EER coeff. performance cooling	EER coeff, performance cooling			3,67	3,56	3,52	3,48	
COP coeff. performance heatin	COP coeff. performance heating W			4,14	4,13	4,14	4,13	
Refrigerant circuit								
Refrigerant		type			R410A			
DC inverter Compressor		n° / type		1 /	Scroll DC Inverter HITA	CHI		
Scroll Compressor		n° / type		1 / Scroll HITACHI		2 / Scrol	HITACHI	
Air flow fan	(Lo/Hi)	m ³ /h	10675	/ 12500	11955 / 14000	12875 / 14000		
Sound pressure level at 1 m	(Lo/Hi)	dB(A)	55,	/57	56/58	58/60		
Sound pressure level at 2,5 m	(Lo/Hi)	dB(A)	47,	/49	48/50	50,	/52	
Refrigerant pipes (3)	Liquid	mm/inch.		ø12,7 (1/2")		ø15,9	(5/8")	
	Gas	mm/inch.		ø25,4 (1")		ø28,6	(9/8")	
	Parallel oil	mm/inch.			ø6,35 (1/4")			
	Parallel gas	mm/inch.			ø19,1 (3/4")			
Total pipe length		m			350			
Max height difference(i.ui.u.)		m			15			
Max height difference (o.ui.u.)		m		70 (outdoor u	unit above) - 40 (outda	or unit below)		
Temp. range cooling		°C / DB			-5°C / 48°C			
Temp. range heating		°C / WB			-15°C / 27°C			
No. connectable i.u.		n°	13 16 20				20	
Capacity of the connected i.u.		%	% 50 - 130					
Size and weight								
Dimension (WxHxD) (4)		mm	980x16	515x800		1380x1630x830		
Net weight		kg	30	00	330	40	00	

Notes

⁽¹⁾ Cooling capacity tested in accordance with ISO 5151 Standards; outdoor temperature 35° C DB, 24° C WB and indoor temperature 27° C DB, 19° C WB.

⁽²⁾ Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7°C DB, 6°C WB and indoor temperature 20° C DB, 15° C WB.

OUTDOOR UNITS























HCSU 2501 XRV-2 HCSU 3001 XRV-2		HCSU 3001 XRV-2 HCSU 3501 XRV	HCSU 3001 XRV-2 HCSU 4001 XRV	HCSU 3001 XRV-2 HCSU 4501 XRV	HCSU 3501 XRV HCSU 4501 XRV	HCSU 4001 XRV HCSU 4501 XRV	HCSU 4501 XRV HCSU 4501 XRV	
18	20	22	24	26	28	30	32	
55,00	60,00	65,00	70,00	75,00	80,00	85,00	90,00	
61,00	66,00	71,00	78,00	83,00	88,00	95,00	100,00	
				415-50				
15,3 / 23,4	16,34 / 26,2	18,01 / 28,8	19,53 / 33,8	21,11 / 36,8	22,78 / 40,4	24,30 / 44,4	25,88 / 47,4	
14,86 / 23,5	15,96 / 26	17,19 / 28,3	18,85 / 31,9	20,10 / 34,7	21,33 / 36,6	22,99 / 40,2	24,24 / 42,6	
3,59	3,67	3,61	3,58	3,55	3,51	3,5	3,48	
4,1	4,14	4,13	4,14	4,13	4,13	4,13	4,13	
				IOA AUTA CUI				
	0.40		2 / Scroll DC In				LUTACUU	
10/75	2 / Scroll HITACHI		10/75 /0/500	3 / Scroll HITACHI	11055 / 00000		Scroll HITACHI 2875 / 28000	
	/ 25000	55110.5	10675 / 26500	/1.0	11955 / 28000			
	7/60	55/60,5		61,8	56/62,1	58,		
4/	7/52	47/52,5	47/53,8		48/54,1	50,	/55	
	ø15,9 (5/8") ø28,6 (9/8")		ø15,9 (5/8") ø34.9 (1" 3/8")		ø19,1 ø34,9 (1 . /		
	Ø20,0 (7/0)		Ø6,35	(1 / / !')	Ø34,7 (1 3/0		
			Ø19,1	1 . /				
			350	(0/4)			500	
				5			000	
		70		- 40 (outdoor unit belo	w)			
			-5°C		/			
			-15°C	/ 27°C				
20							2	
			50 -	130				
	615x800	400	2460x1630x830	20	700	2860x1630x830	20	
6	00	630	70	00	730	80	00	

Notes

(3) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90 m. (4) Space between the paired units = 100 mm.



XRV SYSTEMS WITH HEAT PUMP







Model / Combination				HCSU 3001 XRV-2 HCSU 3001 XRV-2 HCSU 4501 XRV	HCSU 3001 XRV-2 HCSU 3501 XRV HCSU 4501 XRV	HCSU 3001 XRV-2 HCSU 4001 XRV HCSU 4501 XRV	HCSU 3001 XRV-2 HCSU 4501 XRV HCSU 4501 XRV	HCSU 3501 XRV HCSU 4501 XRV HCSU 4501 XRV		
Power		HP	34	36	38	40	42	44		
Cooling capacity (1)		kW	100,00	105,00	110,00	115,00	120,00	125,00		
Heating capacity (2)		kW	111,00	116,00	121,00	128,00	133,00	138,00		
Electrical data										
Power supply		Ph-V-Hz			3-380~	415-50				
Electrical power absorption in cooling m	Electrical power absorption in cooling mode (fully operational)		27,70 / 46,9	29,28 / 49,9	30,95 / 53,5	32,47 / 57,5	34,05 / 60,5	35,72 / 64,1		
Electrical power absorption in heating mode (fully operational)		kW / A	26,83 / 44,9	28,08 / 47,3	29,31 / 49,6	30,97 / 53,2	32,22 / 53,6	33,45 / 57,9		
EER coeff. performance cooling		W/W	3,61	3,59	3,55	3,54	3,52	3,5		
COP coeff. performance heatin	ıg	W/W	4,14	4,13	4,13	4,13	4,13	4,13		
Refrigerant circuit										
Refrigerant		type			R41	0A				
DC inverter Compressor n° / type					3 / Scroll DC In	verter HITACHI				
Scroll Compressor		n° / type		4 / Scroll HITACHI			5 / Scroll HITACHI			
Air flow fan	(Lo/Hi)	m³/h	10675	/ 39000		10675 / 40500		11955 / 42000		
Sound pressure level at 1 m	(Lo/Hi)	dB(A)	55,	/63	55/63,3	55,	/64	56/64,3		
Sound pressure level at 2,5 m	(Lo/Hi)	dB(A)	47	/55	47/55,3	47,	/56	48/56,3		
Refrigerant pipes (3)	Liquid	mm/inch.			ø19,1	(3/4")				
	Gas	mm/inch.			ø41,3 (1" 5/8")				
	Parallel oil	mm/inch.			ø6,35	(1/4")				
	Parallel gas	mm/inch.			ø19,1	(3/4")				
Total pipe length		m			50					
Max height difference(i.ui.u.)		m			1	•				
Max height difference (o.ui.u.)		m		70 (o	utdoor unit above)	- 40 (outdoor unit be	elow)			
Temp. range cooling		°C / DB			-5°C /					
Temp. range heating		°C / WB			-15°C	/ 27°C				
No. connectable i.u. no				36			42			
Capacity of the connected i.u.			50 -	130						
Size and weight								4340x1630x830		
Dimension (WxHxD) (4)		mm		630x830		3940x1630x830	3940x1630x830			
Net weight		kg	10	100	1030	11	00	1130		

Notes

 $⁽¹⁾ Cooling \ capacity \ tested \ in \ accordance \ with \ ISO \ 5151 \ Standards; outdoor \ temperature \ 35^{\circ} \ C \ DB, \ 24^{\circ} \ C \ WB \ and \ indoor \ temperature \ 27^{\circ} \ C \ DB, \ 19^{\circ} \ C \ WB.$

⁽²⁾ Heating capacity tested in accordance with ISO 5151 Standards; outdoor temperature 7°C DB, 6°C WB and indoor temperature 20° C DB, 15° C WB.

OUTDOOR UNITS























HCSU 4001 XRV HCSU 4501 XRV HCSU 4501 XRV	HCSU 4501 XRV HCSU 4501 XRV HCSU 4501 XRV	HCSU 3501 XRV HCSU 3501 XRV HCSU 3501 XRV HCSU 4001 XRV	HCSU 3501 XRV HCSU 3501 XRV HCSU 3501 XRV HCSU 4501 XRV 52	HCSU 3501 XRV HCSU 3501 XRV HCSU 4001 XRV HCSU 4501 XRV	HCSU 3501 XRV HCSU 3501 XRV HCSU 4501 XRV HCSU 4501 XRV	HCSU 3001 XRV-2 HCSU 4501 XRV HCSU 4501 XRV HCSU 4501 XRV 58	HCSU 3501 XRV HCSU 4501 XRV HCSU 4501 XRV HCSU 4501 XRV	HCSU 4001 XRV HCSU 4501 XRV HCSU 4501 XRV HCSU 4501 XRV 62	HCSU 4501 XRV HCSU 4501 XRV HCSU 4501 XRV HCSU 4501 XRV 64
130.00	135.00	145.00	150.00	155.00	160.00	165.00	170.00	175.00	180.00
145.00	150.00	159.00	164.00	171,00	176.00	183.00	188,00	195.00	200.00
1 10/00	100,00	107,00	101,00	17 1700	17 0,00	100,00	100,00	170,00	200,00
				3-380~	415-50				
37,24 / 68,1	38,82 / 71,1	40,88 / 70,8	42,46 / 73,8	43,98 / 77,8	45,56 / 80,8	46,99 / 84,2	48,66 / 87,8	50,18 / 91,8	51,76 / 94,8
35,11 / 61,5	36,36 / 63,9	38,50 / 64,8	39,75 / 67,2	41,41 / 70,8	42,66 / 73,2	44,34 / 76,9	45,57 / 79,2	47,23 / 82,8	48,48 / 85,2
3,49	3,48	3,55	3,53	3,52	3,51	3,51	3,49	3,49	3,48
4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13	4,13
				R41					
						verter HITACHI			
6 / Scroll		5 / Scroll	HITACHI	6 / Scroll	HITACHI	7 / Scroll		8 / Scroll	
	/ 42000		11955 ,			10675 / 56000	5 / 56000 11955 / 56000 12875 / 56000		
58/	64,7	56/	64,6	56/	/	55/65,5	56/65,6	58,	/66
50/	56,7	48/-	56,6	48/		47/57,5	48/57,6	50,	/58
						! (7/8")			
					ø44,5[1" 3/4")			
				ø6,35	1 . /				
				ø19,1					
					00				
			70. /	·	5	1 1			
			/0 (01	utdoor unit above)	- '	oelow)			
				-5°C /					
	18		F.4	-15°C	12/30	50		,	4
4	Ю	54 58 64 50 - 130						4	
				50 -	130				
4340v1	630x830				5820v1	630x830			
	200	13	30	14		1500	1530	16	00
12	-00	10		17	10	1500	1000	10	-

Notes

(3) When several outdoor units are paired the diameters indicated refer to the section up to the first branch, with a length equivalent or less than 90 m. (4) Space between the paired units = 100 mm.



MINI XRV - XRV SYSTEMS

INDOOR UNITS

	1,80 kW	2,20 kW	2,80 kW	3,60 kW	4,50 kW	5,60 kW
CASSETTE 60x60 ROUND FLOW HTFU XRV						
CASSETTE 84x84 HTBU XRV						
DUCT LOW STATIC PRESSURE HRDU XRV						
DUCT MEDIUM STATIC PRESSUR HUCU XRV						
DUCT HIGH STATIC PRESSURE HVDU XRV						
CONSOLE HFIU XRV						
FLOOR/CEILING HSFU XRV						
EXPOSED FLOOR HFLU XRV						
HIDDEN FLOOR HFCU XRV						
WALL HKEU XRV						

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

MINI XRV - XRV SYSTEMS



7,10 kW 9,00 kW 11,20 kW 14,00 kW 16,00 kW 20,00 kW 28,00 kW











































MINI XRV - XRV SYSTEMS

INDOOR UNITS

HTFU XRV CASSETTE 60x60 - ROUND FLOW



4 power levels: 2.20~4.50 kW.

Ultra-compact cassette.

TFP 352 IHRS panel with 360° air diffusion only for the XRV cassette.

Wide range of oscillation at 40°.

Electrical box inside.

External air intake pre-set.

Condensate drain pump with possibility of raising the discharge up to 360 mm from the outlet height.



Model		HTFU 222 XRV	HTFU 282 XRV	HTFU 362 XRV	HTFU 452 XRV		
Cooling capacity	kW	2,20	2,80	3,60	4,50		
Heating capacity	kW	2,60	3,20	4,00	5,00		
Moisture Removal	l/h	1,0	1,0	1,2	1,5		
Power supply	Ph-V-Hz	1-220~240-50					
Power consumption	W	48	48	56	56		
Air flow (Lo/Mi/Hi)	m³/h	238 / 3	09 / 521				
Noise level 1,5 m (Lo/Mi/Hi)	dB(A)	23/33/36 29/35/41					
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	15/2	25/28	21/2	1/27/33		
Unit dimension (WxHxD)	mm		575x2	65x575			
Grille size (WxHxD)	mm		647x5	0x647			
Net weight (body + grille)	kg	2	20	2	2		
Refrigerant pipes Liquid/Gas side	mm/inch.		ø6,35 (1/4'')	- ø12,7 (1/2")			
Drain hose diameter	ø mm		2	15			
Drain pump head	mm	(up to) 360					
Refrigerant Control	type	Electronic Expansion Valve box					
Remote Control	type		IR Remote Co	ntrol (included)			

MINI XRV - XRV SYSTEMS

INDOOR UNITS

HTBU XRV CASSETTE 84x84





3D coaxial fan: reduces the resistances to rotation and allows for a uniform distribution of air in the heat exchanger and when the air exits the 4 outlets.

Opening angle of flap up to 42°.

Low resistance and low noise fan profile.

Innovative design of air delivery opening and flap to reduce blackening of the ceiling and the condensing formation.

TBP 711 IHXR panel and 4 removable corners for easy installation.

Condensing drain pump with possibility of raising the discharge up to 360 mm from the outlet height.

Built-in electronic control (accessible from the panel).

Pre-set for duct connection of fresh-air intake and duct for cooling/heating a small adjacent room.



Model		HTBU 561 XRV	HTBU 711 XRV	HTBU 901 XRV	HTBU 1121 XRV	HTBU 1401 XRV	
Cooling capacity	kW	5,50	7,10	9,00	11,20	14,00	
Heating capacity	kW	6,30	8,00	10,00	12,50	15,00	
Moisture Removal	l/h	1,8	2,4	3,0	3,8	4,0	
Power supply	Ph-V-Hz			1-220~240-50			
Power consumption	W	90	115	10	60	180	
Air flow (Lo/Mi/Hi)	m ³ /h	650/800/950	820/1010/1220	1120/13	1280/1500/1800		
Noise level 1,5 m (Lo/Mi/Hi)	dB(A)	36/38/39		36/38/40	37/39/41	44/47/50	
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	29/31/32		29/31/33	30/32/34	37/40/43	
Unit dimension (WxHxD)	mm	840x230x840 840x300x840					
Grille size (WxHxD)	mm			950x46x950			
Net weight (body + grille)	kg	3	2		38		
Refrigerant pipes Liquid/Gas side	mm/inch.		(ø9,53 (3/8") - ø15,9 (5/8'	")		
Drain hose diameter	ø mm			32			
Fresh air intake	ø mm			75			
Air intake for adjacent room	mm	350	x 85		350 x 155		
Drain pump head	mm	(up to) 360					
Refrigerant Control	type		Elec	tronic Expansion Valve	box		
Remote Control	type		IR F	Remote Control (includ	ed)		



MINI XRV - XRV SYSTEMS

INDOOR UNITS

HRDU XRV DUCT LOW STATIC PRESSURE



6 power levels: 1.80~5.60 kW.

Ultra-compact design: only 190 mm in height; thanks to its small size it is ideal for use in hotels.

Low acoustic impact: only 21 dB(A) for models from $1.80\sim2.20$ kW.

Bottom air intake.

Body made of ABS.

Available static pressure: 5 Pa.

Filter supplied standard.















Model		HRDU 182 XRV	HRDU 222 XRV	HRDU 282 XRV	HRDU 362 XRV	HRDU 452 XRV	HRDU 562 XRV	
Cooling capacity	kW	1,80	2,20	2,80	3,60	4,50	5,60	
Heating capacity	kW	2,20	2,60	3,20	4,00	5,00	6,30	
Moisture Removal	I/h	0,6	0,7	1,0	1,2	1,5	1,8	
Power supply	Ph-V-Hz	1-220~240-50						
Power consumption	W		40				56	
Air flow (Lo/Mi/Hi)	m3/h	250/3	23/446	267/359/527			512/634/767	
Noise level 1 m (Lo/Mi/Hi)	dB(A)	21/27/33	21/29/34	30/34/36 3			31/35/37	
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	13/19/25	13/21/26	22/2	6/28	23/2	27/29	
Dimension (WxHxD)	mm		850x19	90x405		1030x1	90x430	
Available static pressure	Pa				5			
Net	kg		11	1,5		1	4	
Refrigerant pipes Liquid/Gas side	mm/inch.		Øć	5,35 (1/4") - ø12,7 (1/	2")		ø9,53 (3/8") - ø15,9 (5/8"	
Drain hose diameter	ø mm			1	6			
Fresh air intake	ø mm	-						
Refrigerant Control	type	Electronic Expansion Valve box						
Remote Control	type	IR Remote Control (included)						

MINI XRV - XRV SYSTEMS

INDOOR UNITS

HUCU XRV DUCT MEDIUM STATIC PRESSURE



7 power levels: 2.80~11.20 kW.

Ultra-compact design: only 210 mm ($2.80\sim5.60$ kW) and 270 mm ($7.10\sim11.20$ kW) in height.

Low acoustic impact: only 29 dB(A) for model from 7.10 kW.

4 ventilation speeds (high optional) can be set on the electronic control

Available static pressure: 30 Pa (2.80~7.10 kW); 50 Pa (9.00 kW); 80 Pa (11.20 kW).

Bottom or rear intake selectable at time of installation with interchangeable panel.

Condensing drain pump included.

Pre-cut for external air intake fitting.

Aluminium alloy filter supplied as standard.

Electrical box can be removed from the machine body and installed up to 1 m.

Display board can be freely positioned of up to 3 m.



Model		HUCU 282 XRV	HUCU 362 XRV	HUCU 452 XRV	HUCU 562 XRV	HUCU 712 XRV	HUCU 902 XRV	HUCU 1122 XRV
Cooling capacity	kW	2,80	3,60	4,50	5,60	7,10	9,00	11,20
Heating capacity	kW	3,20	4,00	5,00	6,30	8,00	10,00	12,50
Moisture Removal	l/h	1,0	1,2	1,5	1,8	2,4	3,0	3,8
Power supply	Ph-V-Hz				1-220~240-50			
Power consumption	W	62	67	1	15	163	231	357
Air flow (ULo/Lo/Mi/Hi)	m3/h	320/410,	/530/570	583/667/850/958		821/905/1050/1207	1033/1167/1350/1558	1400/1564/1800/2036
Noise level 1,5 m (Lo/Hi)	dB(A)	36,	/40	32/41		29/42	35/44	38/48
Noise level 2,5 m (Lo/Hi)	dB(A)	29,	/33	25	/34	22/35	28/37	31/41
Dimension (WxHxD)	mm	700x2	10x635	920x2	10x635	920x270x635	1140x2	70x775
Available static pressure (Lo/Hi)	Pa			10/30			20/50	40/80
Net	kg	21	1,5	2	7	31	4	.1
Refrigerant pipes Liquid/Gas side	mm/inch.	ø6	,35 (1/4") - ø12,7 (1/	(2")		ø9,53 (3/8'')	- ø15,9 (5/8'')	
Drain hose diameter	ø mm	25						
Refrigerant Control	type		Electronic Expansion Valve box					
Remote Control	type			IR Re	mote Control (inclu	ided)		



MINI XRV - XRV SYSTEMS

INDOOR UNITS

HVDU XRV DUCT HIGH STATIC PRESSURE



5 power levels: 7.10~28.00 kW.

Ultra-compact design: only 400 mm in height for 14.00 kW model.

Low acoustic impact: only 44 dB(A) for 7.10 kW model.

Available static pressure: 196 Pa.

Rear air intake.

Filter supplied standard.

Ease of maintenance.

















new

new

new

Model		HVDU 714 XRV	HVDU 1124 XRV	HVDU 1604 XRV	HVDU 2004 XRV	HVDU 2804 XRV		
Cooling capacity	kW	7,10	11,20	14,00	20,00	28,00		
Heating capacity	kW	8,00	12,50	15,50	22,50	31,50		
Moisture Removal	l/h	2,4	3,8	4,8	7	10		
Power supply	Ph-V-Hz		1-220~240-50					
Power consumption	W	263	524	832	14	50		
Air flow (Lo/Mi/Hi)	m3/h	1236/1399/1510	1644/1950/2117	2700/3200/3890	3200/3820/4180	3300/3940/4400		
Noise level 1,5 m (Lo/Mi/Hi)	dB(A)	44/46/48	47/49/52	50/52/54	55/58/61			
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	37/39/41	40/42/45	43/45/47	48/5	1/54		
Dimension (WxHxD)	mm	952x42	20x690	1200x400x600	1425x5	00x928		
Available static pressure	Ра	40(30-196)	50(30)-196)	19	96		
Net	kg	45	50,6	70	1:	22		
Refrigerant pipes Liquid/Gas side	mm/inch.	Ç	ø9,53 (3/8") - ø15,9 (5/8"	')	2 x ø9,53 (3/8")	- 2 x ø15,9 (5/8")		
Drain hose diameter	ø mm			32				
Fresh air intake	ø mm	-						
Refrigerant Control	type	EEV box already connected 2 x Box with electronic expansion valve						
Remote Control	type		\	Wired control (included	1)			

MINI XRV - XRV SYSTEMS

INDOOR UNITS

HFIU XRV CONSOLE



4 power levels: 2.20~4.50kW.

Ultra-compact measurements: only 210 mm in depth.

Double air outlet control: upper and lower.

Front and side air intake.

5 fan speeds.

Anti-formaldehyde filter.



Model		HFIU 222 XRV	HFIU 282 XRV	HFIU 362 XRV	HFIU 452 XRV
Cooling capacity	kW	2,20	2,80	3,60	4,50
Heating capacity	kW	2,60	3,20	4,00	5,00
Moisture Removal	l/h	0,7	1,0	1,2	1,5
Power supply	Ph-V-Hz	1-220~240-50			
Power consumption	W	20	25		45
Air flow (Lo/Mi/Hi)	m³/h	229/345/430	229/430/510		400/512/660
Noise level 1 m (Lo/Mi/Hi)	dB(A)	26/32/38	27/33/39		36/39/42
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	18/24/30	19/25/31		28/31/34
Dimension (WxHxD)	mm	700x600x210			
Net	kg	13			
Refrigerant pipes Liquid/Gas side	mm/inch.	ø6,35 (1/4") - ø12,7 (1/2")			
Drain hose diameter	ø mm	16			
Refrigerant Control	type	Electronic Expansion Valve box			
Remote Control	type	IR Remote Control (included)			

MINI XRV - XRV SYSTEMS

INDOOR UNITS

HSFU XRV FLOOR/CEILING



5 power levels: 3.60~11.20 kW.

3 fan speeds.

Motorized horizontal and vertical flaps for optimal air flow control, 3D ventilation (Auto Swing and Wide Angle functions).

Easy installation with unit attached to the wall or ceiling (brackets supplied standard).

Waterproofing of the condensing drain tank (special treatment with water-repellent film).

Built-in electronic expansion valve.

Electric and refrigeration connections accessible from the air intake grille.

Model		HSFU 361 XRV	HSFU 561 XRV	HSFU 711 XRV	HSFU 901 XRV	HSFU 1121 XRV
Cooling capacity	kW	3,60	5,60	7,10	9,00	11,20
Heating capacity	kW	4,00	6,30	8,00	10,00	12,50
Moisture Removal	l/h	1,2	1,9	2,4	3,0	3,8
Power supply	Ph-V-Hz	1-220~240-50				
Power consumption	W	120	122	125	130	182
Air flow (Lo/Mi/Hi)	m³/h	500/570/650 500/600/800			700/900/1200	1730/1860/1980
Noise level 1 m (Lo/Mi/Hi)	dB(A)	38/41/43			40/43/45	42/45/47
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	30/33/35			32/35/37	34/37/39
Dimension (WxHxD)	mm	990x660x206			1280x660x206	1670x680x244
Net	kg	29		37	54	
Refrigerant pipes Liquid/Gas side	mm/inch.	Ø6,35 (1/4") - Ø12,7 (1/2")				
Drain hose diameter	ø mm	25				
Refrigerant Control	type	Electronic Expansion Valve box				
Remote Control	type	IR Remote Control (included)				

MINI XRV - XRV SYSTEMS

INDOOR UNITS

HFLU XRV EXPOSED FLOOR



2 power levels: 5.60~7.10 kW.

Lower air intake.

Built-in expansion valve and electronic control.

Fast extraction of air filters and removal of panel for maintenance and cleaning.

Easy installation.

























Model		HFLU 561 XRV	HFLU 711 XRV	
Cooling capacity	kW	5,60	7,10	
Heating capacity	kW	6,30	8,00	
Moisture Removal	l/h	1,8	2,4	
Power supply	Ph-V-Hz	1-220~	240-50	
Power consumption	W	88	130	
Air flow (Lo/Mi/Hi)	m3/h	830/970/1150	870/1100/1380	
Noise level 1 m (Lo/Mi/Hi)	dB(A)	37/39/41	38/41/43	
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	29/31/33	30/33/35	
Dimension (WxHxD)	mm	1500x625x220		
Net	kg	44		
Refrigerant pipes Liquid/Gas side	mm/inch.	ø9,53 (3/8") - ø15,9 (5/8")		
Drain hose diameter	ø mm	25		
Refrigerant Control	type	Electronic Expansion Valve box		
Remote Control	type	IR Remote Control (included)		



MINI XRV - XRV SYSTEMS

INDOOR UNITS

HFCU XRV HIDDEN FLOOR



5 power levels: 2.80~7.10 kW.

Extremely quiet: only 33 dB(A) for the 2.80 kW model.

Available static pressure: 12 Pa.

Lower air intake.

Built-in expansion valve and electronic control.

Easy installation.



Model		HFCU 281 XRV	HFCU 361 XRV	HFCU 451 XRV	HFCU 561 XRV	HFCU 711 XRV
Cooling capacity	kW	2,80	3,60	4,50	5,60	7,10
Heating capacity	kW	3,20	4,00	5,00	6,30	8,00
Moisture Removal	l/h	1,0	1,2	1,5	1,8	2,4
Power supply	Ph-V-Hz			1-220~240-50		
Power consumption	W	46	35	49	88	130
Air flow (Lo/Mi/Hi)	m³/h	421/485/569	375/522/624	440/542/660	830/970/1150	870/1100/1380
Noise level 1 m (Lo/Mi/Hi)	dB(A)	33/35/37	35/37/39		37/39/41	38/41/43
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	25/27/29	27/2	29/31	29/31/33	30/33/35
Dimension (WxHxD)	mm	840x544x212	840x544x212 1036x544x212		1336x544x212	
Available static pressure	Pa	12				
Net	kg	30 37		44		
Refrigerant pipes Liquid/Gas side	mm/inch.	ø6,35 (1/4") - ø12,7 (1/2")		ø9,53 (3/8") - ø15,9 (5/8")		
Drain hose diameter	ø mm	25				
Refrigerant Control	type	Electronic Expansion Valve box				
Remote Control	type	IR Remote Control (included)				

MINI XRV - XRV SYSTEMS

INDOOR UNITS

HKEU XRV WALL



4 power levels: 2.20~5.60 kW.

Extremely quiet: only 29 dB(A) for models from 2.20~ 3.60 kW.

New built-in electronic expansion valve that operates at 2000 pulses per minute.

Standard washable filter and anti-formaldehyde filter.

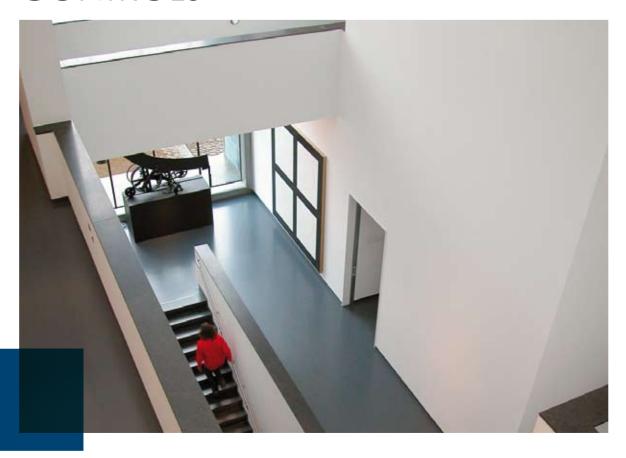


Model		HKEU 222 XRV	HKEU 282 XRV	HKEU 362 XRV	HKEU 562 XRV
Cooling capacity	kW	2,20	2,80	3,60	5,60
Heating capacity	kW	2,60	3,20	4,00	6,30
Moisture Removal	l/h	0,7	1,0	1,2	1,8
Power supply	Ph-V-Hz		1-220~	-240-50	
Power consumption	W		45		
Air flow (Lo/Mi/Hi)	m3/h		650/760/900		
Noise level 1 m (Lo/Mi/Hi)	dB(A)		34/38/40		
Noise level 2,5 m (Lo/Mi/Hi)	dB(A)	21/24/27			26/30/32
Dimension (WxHxD)	mm	915x290x230		1075x315x230	
Net	kg	13			15
Refrigerant pipes Liquid/Gas side	mm/inch.	ø6,35 (1/4") - ø12,7 (1/2")			ø9,53 (3/8") - ø15,9 (5/8")
Drain hose diameter	Ømm	20			
Refrigerant Control	type	Electronic Expansion Valve box			
Remote Control	type	IR Remote Control (included)			





CONTROLS

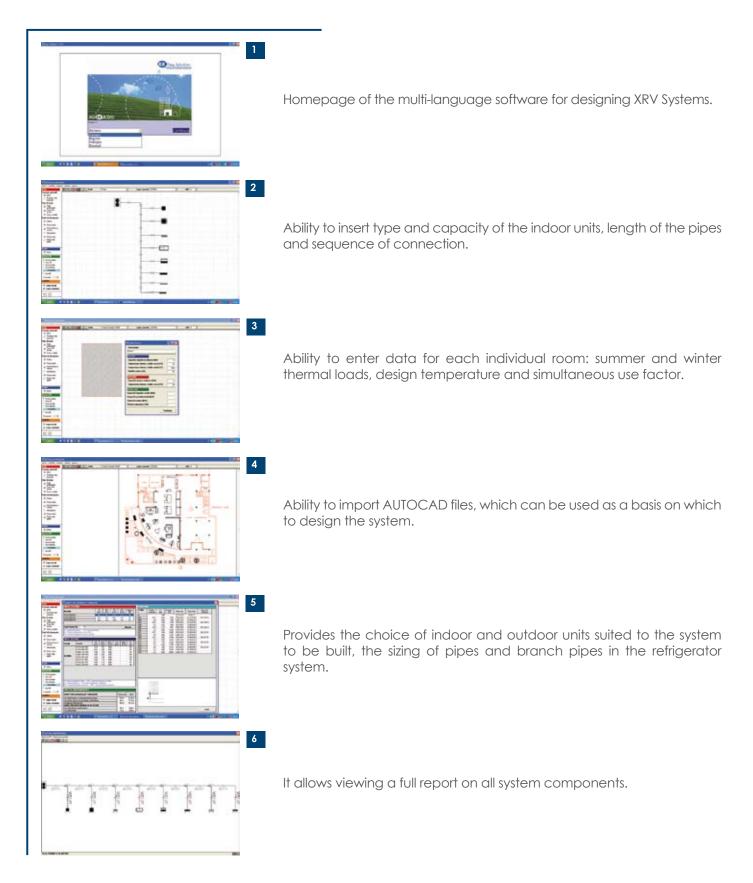


2013

Easy Solution	54
Controls standard	55
Controls optionals	56



XRV DESIGN SOFTWARE



The single line diagram of the pipes can be copied directly to Word or Excel documents or exported into.DXF files that can be integrated with an AUTOCAD design.

The final report is a summary of the units used, the pipes divided into the various diameters, the branch pipes, the system's electrical wiring diagrams and selected control connection diagrams.

CONTROLS

STANDARD INDIVIDUAL





new

HKEQ X (Performance Line)



HKEU X (Multi Liberty)



HFIU XRV



HTFU X (Multi Liberty) HSFI X HTBU XRV **HSFU XRV** HRDU XRV



HUCU X (Multi Liberty) HUCI X HTFU XRV **HUCU XRV HVDU XRV** HFLU XRV HFCU XRV HKEU XRV



DTW-IHXR-TOUCH HTBI X

Able to control lift panel for filter cleaning.

- Ambient temperature range: 17° C~30° C.
- Mode: auto, cooling, dehumidification, heating, ventilation.
 Clock, timer and fan speed setting.
- Setting the motorized flaps for all or single use.
- Fan speed: low, medium, high or automatic.
- Follow me function: built-in temperature sensor for an accurate ambient temperature control.



CONTROLS

OPTIONALS







WIRED REMOTE CONTROL

- Ambient temperature range: 17° C~30° C.
- Mode: auto, cooling, dehumidification, heating, ventilation.
- Clock, timer and fan speed setting.
- Setting for motorized flaps.
- Fan speed: low, medium, high or automatic.
- ECO function, with automatic variation of the ambient temperature settina.



DTW-IHXR
DTWS-IHXR*

WIRED REMOTE CONTROL

Can be used to control from 1 to 4 units simultaneously.

- Ambient temperature range: 17° C~30° C.
- Mode: auto, cooling, dehumidification, heating, ventilation.
- Clock, timer and fan speed setting.
- · Setting for motorized flaps.
- Fan speed: low, medium, high or automatic.
- ECO function, with automatic variation of the ambient temperature setting.
- * Built-in temperature sensor and FOLLOW ME function.



DTC-IHXR

CENTRALISED CONTROL

- Max of 64 units can be connected.
- The following can be set on individual or all units:
 ON/OFF, ambient temperature, fan speed, flap setting and timer programming.
- Memory of set functions.
- Set function lock (cooling/heating, keyboard remote control).
- Display for operating modes (temp. sensors, batteries and environment).
- Display of alarm codes and safety devices.
- Connection to PC, with adapter.



DTC-2-IHXR

CENTRALISED CONTROL



- Centralized Control with a particularly charming and attractive design.
- It allows the control of the Indoor Units and Heat Pump for hot water:
 - up to 16 Indoor Units;
 - 1 Heat Pump for hot water.



DTCWT-IHXR

CENTRALISED CONTROL WITH WEEKLY TIMER

- Max of 64 units can be connected.
- Possibility of 4 daily settings (Mon-Sun) on single or on all units: ON/OFF, operating mode, ambient temperature, and fan speed.
- Memory of set functions.
- Set function lock (cooling/heating, keyboard remote control).
- Display for operating modes (temp. sensors, batteries and environment).
- Display of alarm codes and safety devices.

RESIDENTIAL/MULTI COMMERCIAL XRV MULTI SYSTEM

OPTIONALS



DTWT-IHXR

WEEKLY PROGRAMMER 4 daily settings of:

- Start-up/shut-down times.
- Operating mode.
- Fan speed.
- Display of alarms and protection devices.
- Can be combined with remote control and/or wired control.

Note: if this wired control is used, connection to a centralised control is not possible.



BH-UHXRV

BADGE HOTEL

Interface for ON/OFF remote with reactivation of the functions set at restart.



DTMBS-IHXR

INTERFACE

- 1 Output signal for Emergency stop/Alarm
- 2 4 ports for XYE
- 3 4 ports for K1K2E
- 4 LAN port

new

DTMBS-IHXR interface, is the real physical hardware that allows the connection of:

- up to max. 64 Outdoor Units;
- up to max. 256 Indoor Units;
- divided in max. 16 refrigerant circuits;
- LAN connection (RJ45) for PC, Router, Hub, Switch;
- up to max. 4 DTMBS-IHXR can be connected to only one PC (so as to control up to 1024 Indoor Units).



BMS2-UHXRV

NETWORK CONTROL SOFTWARE (V.3.1)

- XRV system management and control software.
- Operating settings.
- Display of operating modes.
- Display of alarms and protection devices.



DTCO-UHXRV

CENTRALISED CONTROL FOR OUTDOOR UNITS

Centralised control connected to outdoor units (max 32) for viewing the operating parameters and alarms of the outdoor units.



Box for wall-installation of wired controls.





TECHNICAL COURSES - KEY TO ICONS



2013

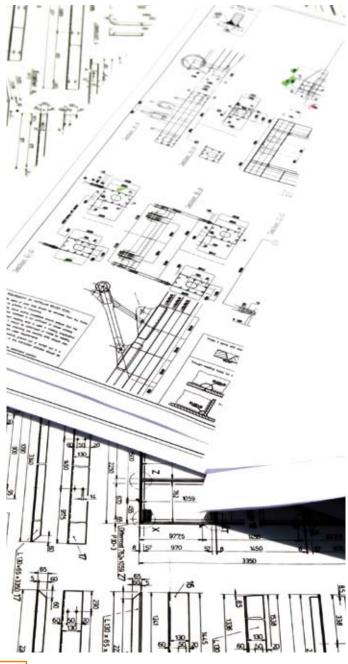
Technical courses	60
Key to icons	61

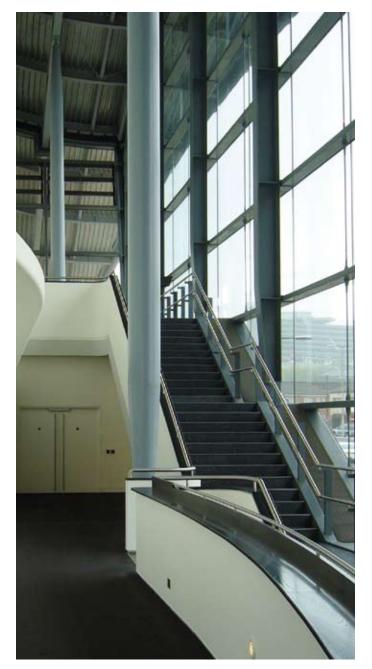


TECHNICAL COURSES

Hokkaido organizes technical courses at its headquarters or at dealers' facilities, in collaboration with its agencies in order to deepen technicians' and designers' knowledge of various topics, including:

- Refrigerant circuit
- Installation problems
- Fault diagnostics
- Assistance
- Design of systems with variable capacities
- Use of "Easy Solution" software





KEY TO ICONS





DC INVERTER TECHNOLOGY

It ensures the best levels of efficiency and high energy savings, thereby guaranteeing that the temperature parameters selected are reached evenly and quickly.



ATTENTION TO THE ENVIRONMENT

All products use environmentally friendly R410A refrigerant gas, bi component mixture without CFCs and ozone friendly, which ensures maximum efficiency and running economy.



ENERGY CLASS

The most part of units have a class a efficiency rating both in cooling and heating.



MICROCOMPUTER CONTROLLED DEFROSTING

The microcomputer is able to detect a fall off in heating capacity of the system, due to frostening on outdoor unit heat exchanger and activates defrosting function. When this function is on, a LED on indoor unit's front panel lights up.



RANGE OF OPERATION

The most part of units can operate in heating with an outdoor temperature of -15° C.



AUTO-RESTART FUNCTION

Automatic switching on after a power outage. In case of blackout, when the power supply returns, the equipment starts up again with the previously selected settings.



SLEEP MODE

Improves comfort during the nocturnal use, by reducing (in heating) or increasing (in cooling) the set temperature gradually.



TIMER WITH DEFERRED PROGRAMMING



INTELLIGENT CONTROL OF THE INTERNAL FAN

In heating mode:

- during thermostatic breaks the fan speed is automatically maintained to avoid discomfort caused by currents of cold air;
- in pre-heating, the air conditioner will not emit air until the heat exchanger has reached the programmed temperature.



DRY



3-DIMENSIONAL COAXIAL FAN

The 60x60 cassette-type model have been designed to house a special (3-dimensional, coaxial) fan which, by reducing resistance to rotation, allows even distribution of the airflow onto the heat exchanger, guaranteeing comfort and wellbeing in the air-conditioned environment.



AUTO SWING AND WIDE ANGLE FUNCTIONS

The innovative 3D system (Auto Swing and Wide Angle) is present on the floor/ceiling model; the horizontal and vertical flaps are motorized to achieve optimum airflow, allowing a better distribution of air inside the air-conditioned environment.



COMPACT DESIGN

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



LOW SOUND LEVELS

Made with innovative technologies, the wide range of indoor units is designed to give a customized response to all requirements of ambient comfort.



EXTERNAL AIR

Pre-cut for external air inlet fitting.



EASE OF MAINTENANCE

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



CENTRALIZED CONTROL

With centralized control (optional) you can control up to 64 indoor units, console model only.



KEY TO ICONS





EASE OF MAINTENANCE



24H TIMER





IR WIRELESS



WIRED CONTROL



EASY CLEAN PANEL



STATIC PRESSURE



ECONOMIC RUNNING FUNCTION

The operating software automatically sets certain operating parameters in order to obtain the desired temperature with the least expenditure of energy.



EASY TO USE REMOTE CONTROL

The remote controls provided allow the end-user to select the ambient conditions of each area as required and to achieve



VERSATILITY OF CONTROL SYSTEMS

The control systems allow many combinations of controls; individual or group. The application can easily be incorporated into a BMS control system.



EASY SYSTEM MODIFICATION

It is feasible and simple to make modifications to the system if the need arises. It is, in fact, possible to connect indoor units up to a total rated capacity of 130% of the outdoor unit.



REDUCED OPERATING COSTS

The modular systems have high efficiency compressors with continuous DC Inverter modulation which allow energy savings of 30% compared to conventional systems and require less maintenance.



MAXIMUM DESIGN FLEXIBILITY

The total length of the cooling pipes can reach 100 m with a height difference between the units of 20 m for Mini units and 500 m with a height difference of 70 m for modular units, thus making it easier to adapt the system to the structure of the building.

Thanks to the compact and modular design of the outdoor units, they can be positioned in outdoor locations where space is limited.



COMPACT DESIGN

The weight and compact design of the outdoor units facilitate easy transportation and positioning, with a consequent reduction in the installation time and operating costs.



EASY REMOVAL OF MACHINE PANEL

Thanks to a new fastening located inside the units, its ergonomic design allows for easy removal of the panel and improves the overall design of the machine.



NOTES	
	The state of the s
	AND PARTY OF THE P
	The state of the s





Due to the continuing technological evolution of our products, we reserve the right to change technical specifications at any time and without prior notice.

The products shown are only examples of the types of applications.

CE



TERMAL INTERNATIONAL srl

Via della Salute, 14 - 40132 - Bologna - Italy Tel. +39.051.41.33.111 - Fax +39.051.41.33.231 - www.hokkaido.eu

C.C.S. TERMAL FRANCE

Le Marina 7 - Route Nationale 7 06270 Villeneuve Loubet - France Tel. 0825.56.07.00 - Fax +33.492.29.82.22 Tel +31.41.63.19.585 Tel. depuis l'étranger +33.492.29.82.23

NEDTERMAL B.V.

Voorstraat 25 4793 ET Fijnaart The Netherlands Fax +31.41.63.19.541



