PROJECT VRF LINE R410A

Experience makes technology

XRV Multi System



XRV MULTI SYSTEM R410A IN HEAT PUMP

THE ADVANTAGES OF A HOKKAIDO VRF SYSTEM

With Hokkaido VRFs, you can expect superior energy efficiency and a rapid return on investment.

Through the use of inverter compressors, Hokkaido VRF systems are able to achieve high efficiency levels. These systems can be customised to meet any project specifications, making them particularly attractive for large residential buildings, commercial and industrial spaces.

FULL DC INVERTER TECHNOLOGY FOR ALL OUTDOOR UNITS

Full DC Inverter technology has always characterised the Hokkaido product range on the market of VRF systems, in heat pump. These ranges are all equipped with a DC Inverter compressor and DC Inverter fan motor: outstanding results in terms of energy efficiency and reduced operating costs, as well as CO2 emissions.



kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	14.00
	•	•	•	•					
HTFU XRV-P	•	•	•	•					
					•	•	•	•	٠
HTBU XRV-P									
	•	•	•	•	•	•	•	•	
HUCU XRV-P									
	•	•	•	•	•	•			
HKEU XRV-P									
			•	•	•	•	•	•	•
HSFU XRV-P									



ENTHALPY HEAT RECOVERY UNIT									
500	800	1000	1500	2000					
•	•	•	•	•					

XRV PLUS MINI In heat pump





HCNU 1056 XRV HCNU 1206 XRV HCNU 1406 XRV HCNU 1606 XRV

All units are equipped with a high efficiency Full DC Inverter compressor.

Slim, flexible design.

Fan with DC Inverter motor:

broader fan speed modulations;

less noise.

The efficient fan design and the sunburst grill allow an high airflow rate with low noise.

Splitting and height difference lengths

Model	HCNU 1056 XRV	HCNU 1206 XRV	HCNU 1406 XRV	HCNU 1606 XRV
Maximum distance between O.U. and the farthest I.U.	50 m	50 m	70 m	70 m
Maximum distance from the first branch pipe to the farthest I.U.	20 m	20 m	20 m	20 m
Maximum height difference between O.U. (up high) and I.U.	20 m	20 m	30 m	30 m
Maximum height difference between O.U. (down low) and I.U.	20 m	20 m	20 m	20 m
Maximum height difference between I.U.	8 m	8 m	8 m	8 m
Maximum distance between I.U. and branch pipe	15 m	15 m	15 m	15 m
Maximum length of the pipes	65 m	65 m	100 m	100 m

Broad operating range:

cooling -5° C ~ +55° C;

heating -15° C ~ +27° C.

Auto-addressing of indoor units.

Model			HCNU 1056 XRV	HCNU 1206 XRV	HCNU 1406 XRV	HCNU 1606 XRV	
Power		HP	3.2	4.5	5	6	
Rated capacity ¹		kW	9.00	12.20	14.00	15.50	
Rated absorbed power	Cooling	kW	2.64	4.32	4.56	5.35	
Energy efficiency coefficient (rated)		EER	3.41	2.83	3.07	2.90	
Rated capacity ²		kW	9.00	14.00	16.00	18.00	
Rated absorbed power	Heating	kW	2.12	3.17	4.08	5.71	
Energy performance coefficient (rated)		COP	4.29	4.40	3.92	3.20	
Electrical data							
Power supply		Ph-V-Hz		1-220~	240V-50Hz		
Maximum current		A	28.80	35.00	40.00	40.00	
Refrigerant circuit/features							
Refrigerant ³ Typ				R410/	A (2088)		
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg (t)	2.5 (5.220)	3 (6.264)	3.4 (7.099)	3.8 (7.934)	
Compressor		no. / type	1/ Rotary DC Inverter				
Dia na atau wafai na na ni na na	Liquid	mm (inch)	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")	9.53 (3/8")	
Diameter refrigerant pipes	Gas	mm (inch)	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")	19.1 (3/4")	
Product Specifications							
Dimensions	LxHxD	mm	950x	340x426	1040x865x523		
Net weight		Kg	72.5	84	91.4	95.4	
Sound power level	max	dB(A)	68	70	71	71	
Sound pressure level at 1 m	max	dB(A)	54	56	56	56	
Treated air volume	max	m³/h	5200	5000	5400	5200	
Cooling		°C		-5	~55		
Operating limits (outside temperature)	Heating	°C		-1	5~27		
Max. connectable I.U. (min - max)		no.	1-6	1-7	1 - 8	1-9	
Capacity of connectable indoor units	Capacity of connectable indoor units %			50 - 130			

Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° C WB.
Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

4. For the calculation of the additional refrigerant charge refer to the labels placed inside and outside the unit.

XRV PLUS MINI In heat pump



HCYU 2006 XRV HCYU 2246 XRV HCYU 2606 XRV

HCYU 2806 XRV **HCYU 3356 XRV**

All units are equipped with a high efficiency Full DC Inverter compressor. DC Inverter motor fan:

• broader fan speed modulations;

less noise.

Up to 20 indoor units connected to one compact outdoor unit. Self-diagnosis function for main system problems.

Splitting and height difference lengths

Model	HCYU 2006 XRV	HCYU 2246 XRV	HCYU 2606 XRV	HCYU 2806 XRV	HCYU 3356 XRV
Maximum distance between O.U. and the farthest I.U.	110 m				
Maximum distance from the first branch pipe to the farthest I.U.	40 m				
Maximum height difference between O.U. (up high) and I.U.	50 m				
Maximum height difference between O.U. (down low) and I.U.	40 m				
Maximum height difference between I.U.	15 m				
Maximum length of the pipes	150 m				

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -20° C ~ +24° C.

Auto-addressing of indoor units.

Model			HCYU 2006 XRV	HCYU 2246 XRV	HCYU 2606 XRV	HCYU 2806 XRV	HCYU 3356 XRV
Power		HP	7	8	9	10	12
Rated capacity ¹		kW	20.00	22.40	26.00	28.00	33.50
Rated absorbed power	Cooling	kW	5.28	6.77	10.04	12.02	15.30
Energy efficiency coefficient (rated)		EER	3.79	3.31	2.59	2.33	2.19
Rated capacity ²		kW	20.00	22.40	26.00	28.00	33.50
Rated absorbed power	Heating	kW	4.43	5.42	6.86	7.55	10.15
Energy performance coefficient (rated)		COP	4.51	4.13	3.79	3.71	3.30
Electrical data							
Power supply		Ph-V-Hz			3-380~415V50Hz		
Maximum current		A	19.00	19.00	20.50	21.00	26.40
Refrigerant circuit/features							
Refrigerant ³		Type (GWP)			R410A (2088)		
Quantity refrigerant pre-load (tons of CO2 equivalent)		Kg (t)	6.5 (13.572)	6.5 (13.572)	6.5 (13.572)	6.5 (13.572)	8 (16.704)
Compressor		no. / type	1/ Rotary DC Inverter			1/ Rotary	DC Inverter
Discontar refrigerent nin es	Liquid	mm (inch)	9.53	(3/8")	9.53 (3/8")	12.7 (1/2")
Diameter refrigerant pipes	Gas	mm (inch)	19.1	(3/4")	22.2 (7/8")	25.4 (1")
Product Specifications							
Dimensions	LxHxD	mm			1120x1558x528		
Net weight		Kg	1.	43	14	14	157
Sound power level	max	dB(A)	7	'8	7	8	81
Sound pressure level at 1 m	max	dB(A)	5	8	59	60	61
Treated air volume	max	m3/h	90	00	10000	11000	11300
(naroting limits (outside temperature)	Cooling	°C			-5~48		
Operating limits (outside temperature)	Heating	°C			-20~24		
Max. connectable I.U. (min - max)		no.	1-11	1 - 13	1 - 15	1 - 16	1 - 20
Capacity of connectable indoor units		%			50 - 130		

Cooling capacity tested in accordance with ISO 5151 Standards; outside temperature 35° C DB, 24° C WB and inside temperature 27° C DB, 19° C WB.
Heating capacity tested in accordance with ISO 5151 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.
Refrigerant leakage contributes to climate change. When released into the atmosphere, refrigerants with a lower global warming potential (GWP) contribute less to global warming than those with a higher GWP. This appliance contains a refrigerant with a GWP of 2088. If 1 kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1 kg of CO2, over a period of 100 years. Under no circumstances should the user try to intervene on the refrigerant circuit or disassemble the product. Always contact qualified personnel if necessary.

4. For the calculation of the additional refrigerant charge refer to the labels placed inside and outside the unit.

PREMIUM - INDOOR UNITS

P series

HKEU XRV-P Wall

Compact design Standard washable filter 203 mm deep (2.20~2.80 kW) extremely compact 29 dB(A) (2.20~2.80 kW) extremely quiet The control must be purchased as an accessory



Model	Rated capacity cooling - heating (kW)	Sound power level1 (max ~min)	Sound pressure level at 1.4 m1 (max ~min)	Treated air volume1 m3/h (max ~min)	Dimensions mm (LxHxD) / Net weight (kg)
HKEU 225 XRV-P	2.20 - 2.40	46~44 [dB(A)]	31~29 [dB(A)]	422~356	835x280x203 / 8.4
HKEU 285 XRV-P	2.80 - 3.20	46~44 [dB(A)]	31~29 [dB(A)]	417~316	835x280x203 / 9.5
HKEU 365 XRV-P	3.60 - 4.00	48~45 [dB(A)]	33~30 [dB(A)]	656~488	990x315x223 / 11.4
HKEU 455 XRV-P	4.50 - 5.00	50~46 [dB(A)]	35~31 [dB(A)]	594~424	990x315x223 / 12.8
HKEU 565 XRV-P	5.60 - 6.30	53~49 [dB(A)]	38~34 [dB(A)]	747~547	990x315x223 / 12.8
HKEU 715 XRV-P	7.10 - 8.00	59~51 [dB(A)]	44~36 [dB(A)]	1195~809	1194x343x262 / 17



HSFU XRV-P Floor/ceiling

Auto Swing function | Optimises the distribution of air flow in the room

Built-in electronic expansion valve

Easy installation with unit mounted to the floor or to the ceiling

The control must be purchased as an accessory



Model	Rated capacity cooling - heating (kW)	Sound power level1 (max ~min)	Sound pressure level at 1.4 m ¹ (max ~min)	Treated air volume ¹ m³/h (max ~min)	Dimensions mm (LxHxD) / Net weight (kg)
HSFU 365 XRV-P	3.60 - 4.00	53~49 [dB(A)]	40~36 [dB(A)]	550~420	990x660x203 / 27
HSFU 455 XRV-P	4.50 - 5.00	56~51 [dB(A)]	43~38 [dB(A)]	930~720	990x660x203 / 28
HSFU 565 XRV-P	5.60 - 6.30	56~51 [dB(A)]	43~38 [dB(A)]	930~720	990x660x203 / 28
HSFU 715 XRV-P	7.10 - 8.00	56~51 [dB(A)]	43~38 [dB(A)]	930~720	990x660x203 / 28
HSFU 905 XRV-P	9.00 - 10.00	58~53 [dB(A)]	45~40 [dB(A)]	1280~1050	1280x660x203 / 35
HSFU 1125 XRV-P	11.20 - 12.50	60~55 [dB(A)]	47~42 [dB(A)]	1890~1580	1670x680x244 / 48
HSFU 1405 XRV-P	14.00 - 15.00	60~55 [dB(A)]	47~42 [dB(A)]	1890~1580	1670x680x244 / 48

1. Values related to Max and Min speed of 7 levels settable by remote control.

PREMIUM - INDOOR UNITS

P series

HTFU XRV-P 8-ways compact cassette 60x60

Ultra-compact design

22 dB(A) (2.20~2.80 kW) | Extremely quiet

Condensate drain pump with possibility of raising the discharge up to 500 mm from the lower height

360° air diffusion

The control must be purchased as an accessory

Panel **TFP 155 XRV-P**



HTFU 265 XRV-P 2.80 - 3.20 51~38 [dB(A)] 35~22 [dB(A)] 576~405 630x260x570 / 18 647x50x647 / 2.5 HTFU 365 XRV-P 3.60 - 4.00 56~43 [dB(A)] 41~28 [dB(A)] 604~400 630x260x570 / 19.2 647x50x647 / 2.5	Model	Rated capacity cooling - heating (kW)	Sound power level ¹ (max ~min)	Sound pressure level at 1.4 m ¹ (max ~min)	Treated air volume ¹ m³/h (max ~min)	Dimensions mm (LxHxD) / Net weight (kg)	Dimensions Panel mm (LxHxD) / Net weight (kg)
HTFU 365 XRV-P 3.60 - 4.00 56~43 [dB(A)] 41~28 [dB(A)] 604~400 630x260x570 / 19.2 647x50x647 / 2.5	HTFU 225 XRV-P	2.20 - 2.40	51~38 [dB(A)]	35~22 [dB(A)]	576~405	630x260x570 / 18	647x50x647 / 2.5
	HTFU 285 XRV-P	2.80 - 3.20	51~38 [dB(A)]	35~22 [dB(A)]	576~405	630x260x570 / 18	647x50x647 / 2.5
	HTFU 365 XRV-P	3.60 - 4.00	56~43 [dB(A)]	41~28 [dB(A)]	604~400	630x260x570 / 19.2	647x50x647 / 2.5
HIFU 455 XRV-P 4.50 - 5.00 56~43 [dB(A)] 41~28 [dB(A)] 604~400 630x260x5/0 / 19.2 64/x50x64//2.5	HTFU 455 XRV-P	4.50 - 5.00	56~43 [dB(A)]	41~28 [dB(A)]	604~400	630x260x570 / 19.2	647x50x647 / 2.5



HTBU XRV-P 8-ways cassette 84x84

Optimised fan design to attenuate air resistance and reduce noise level

Pre-set for the connection of an outside air intake channel

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower height

The control must be purchased as an accessory



Model	Rated capacity cooling - heating (kW)	Sound power level1 (max ~min)	Sound pressure level at 1.4 m ¹ (max ~min)	Treated air volume ¹ m3/h (max ~min)	Dimensions mm (LxHxD) / Net weight (kg)	Dimensions Panel mm (LxHxD) / Net weight (kg)
HTBU 565 XRV-P	5.60 - 6.30	56~47 [dB(A)]	43~34 [dB(A)]	1029~704	840x230x840 / 23.2	950x70x950 / 5.8
HTBU 715 XRV-P	7.10 - 8.00	58~47 [dB(A)]	45~34 [dB(A)]	1200~748	840x230x840 / 23.2	950x70x950 / 5.8
HTBU 905 XRV-P	9.00 - 10.00	61~50 [dB(A)]	47~36 [dB(A)]	1596~1034	840x300x840 / 28.4	950x70x950 / 5.8
HTBU 1125 XRV-P	11.20 - 12.50	61~50 [dB(A)]	47~36 [dB(A)]	1596~1034	840x300x840 / 28.4	950x70x950 / 5.8
HTBU 1405 XRV-P	14.00 - 16.00	64~52 [dB(A)]	50~38 [dB(A)]	1727~1224	630x260x570 / 30.7	950x70x950 / 5.8

Panel

1. Values related to Max and Min speed of 7 levels settable by remote control.

PREMIUM - INDOOR UNITS

P series

HUCU XRV-P Ducted with medium static pressure

Available static pressure: 50 Pa (2.20~7.10 kW); 100 Pa (9.00~11.20 kW)

Air intake from bottom or rear

Condensate drain pump included with possibility of raising the discharge up to 750 mm from the lower height

Compatible with systems AIRZONE



The control must be purchased as an accessory

Model	Rated capacity cooling - heating (kW)	Sound power level1 (max ~min)	Sound pressure level at 1.4 m1 (max ~min)	Treated air volume ¹ m³/h (max ~min)	Dimensions mm (LxHxD) / Net weight (kg)
HUCU 225 XRV-P	2.20 - 2.60	50~41 [dB(A)]	32~23 [dB(A)]	520~300	780x210x500 / 18
HUCU 285 XRV-P	2.80 - 3.20	50~41 [dB(A)]	32~23 [dB(A)]	520~300	780x210x500 / 18
HUCU 365 XRV-P	3.60 - 4.00	51~43 [dB(A)]	33~25 [dB(A)]	580~370	780x210x500 / 18
HUCU 455 XRV-P	4.50 - 5.00	51~43 [dB(A)]	36~25 [dB(A)]	800~400	1000x210x500 / 21.5
HUCU 565 XRV-P	5.60 - 6.30	54~46 [dB(A)]	36~28 [dB(A)]	830~560	1000x210x500 / 21.5
HUCU 715 XRV-P	7.10 - 8.00	55~46 [dB(A)]	37~28 [dB(A)]	1000~680	1220x210x500 / 27.5
HUCU 905 XRV-P	9.00 - 10.00	55~46 [dB(A)]	37~28 [dB(A)]	1260~780	1230x270x775 / 37
HUCU 1125 XRV-P	11.20 - 12.50	57~51 [dB(A)]	39~33 [dB(A)]	1500~1080	1230x270x775 / 37

1. Values related to Max and Min speed of 7 levels settable by remote control.

TOTAL HEAT EXCHANGER Enthalpy heat recovery unit

Energy recovery during heat exchanges in rooms

Ventilation units with heat recovery are suited for use in bars, restaurants, offices, gyms, changing rooms and all rooms where air needs to be exchanged during hours of operation.



Mandatory wired remote control

Model	Power supply (Ph-V-Hz)	Sound power level (Hi)	Treated air m ³ /h (Hi)	Fan static pressure Pa (Hi)	Dimensions mm (LxHxD) / Net weight (kg)
EHIN 504	220-240V 1-Phase	50 [dB(A)]	500	90	1106x390x1311 / 76
EHIN 804	220-240V 1-Phasee	55[dB(A)]	800	140	1286x390x1311 / 80
EHIN 1004	220-240V 1-Phase	54 [dB(A)]	1000	160	1526x390x1311/90
EHIN 1504	220-240V 1-Phase	69 [dB(A)]	1500	180	1425x615x1740 / 181.5
EHIN 2004	220-240V 1-Phase	70 [dB(A)]	2000	200	1625x685x1811 / 208.5

CONTROLS Individual XRV controls



DHIR-5-6-XRV-K-P Infrared remote control



DHW-5-6-XRV-P Wired controller

Centalized XRV controls



DHC-8-64-XRV-P Centralized controller of up to 64 indoor units

a new local						
27	H.	E.	131	22	11	
4 4 4 4 227 1 1 1	221		1	E	180	
231	234	225	251	221	12	

DHC-48-364-XRV-P Centralized controller of up to 384 indoor units

HO KKAIDO Experience makes technology

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