

PROJECT VRF R410A FULL DC INVERTER, EFFICIENCY AND EASE OF INSTALLATION

Strengthened by its continued commitment to technological research and its long experience in the heating/cooling systems market in Italy and Europe, Hokkaido is proud to announce the **PROJECT VRF R410A** line, a strong candidate for a leading product in

the VRF systems market.

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

Line up	60
XRV PLUS MINI Heat pump	61
XRV INDIVIDUAL Heat pump	64
PREMIUM INDOOR UNITS P series	67
ENTHALPY HEAT RECOVERY UNIT	73
EEV KIT	74

XRV MULTI SYSTEM DESIGN AND SAVINGS



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 RANGE

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.

•••••

XRV UNIT IN HEAT PUMP





XRV PLUS MINI

XRV INDIVIDUAL

HERE'S WHAT MAKES THE HOKKAIDO RANGE "FULL"

Energy savings and comfort

Full DC Inverter technology (DC Inverter compressor and DC Inverter fan motor) applied to the XRV system outdoor units ensures high EER and COP values not only at full load, but also at partial load. This guarantees energy savings and high comfort in a wide outside temperature operating range.

HIGH EFFICIENCY DC INVERTER COMPRESSOR

Thanks to the use of DC Inverter compressors, which allow for quick and continuous changes of the amount of compressed refrigerant, the XRV system outdoor units are characterised by:

- rapid system start-up;
- quick response to changes in cooling or heating demand by users;
- reduced start&stop cycles.

The result is an efficient system that is highly reliable and durable.

MOTORE VENTILATORE DC

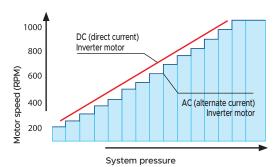
The use of the DC Inverter fan motor ensures energy savings during partial loads, as it adjusts the fan speed and helps make the unit more silent. The fan and outlet grille design guarantees increased air flow, thus resulting in low noise.



DC Inverter compressor



DC Inverter fan motor



• • • • • • •

XRV MULTI SYSTEM

Outdoor heat pump units





2.5HP HCNU 806 XRV



3.2HP HCNU 1056 XRV

4.5HP HCNU 1206 XRV



5HP HCNU 1406 XRV

6HP HCNU 1606 XRV XRV PLUS MINI THREE-PHASE



7HP

HCYU 2006 XRV

8HP 9HP

HCYU 2246 XRV HCYU

246 XRV HCYU 2606 XRV

10HP 12HP

HCYU 2806 XRV HCYU 3356 XRV

XRV INDIVIDUAL THREE-PHASE



14HP HCYUM 4006 XRV-I

XRV-I HCYUM 4506 XRV-I

20HP

18HP HCYUM 5006 XRV-I

CYUM 5006 XRV-I HCYUM 5606 XRV-I

22UD

HCYUM 6156 XRV-I



24HP HCYUM 6706 XRV-I **26HP** HCYUM 7306 XRV-I

28HP

HCYUM 7856 XRV-I H

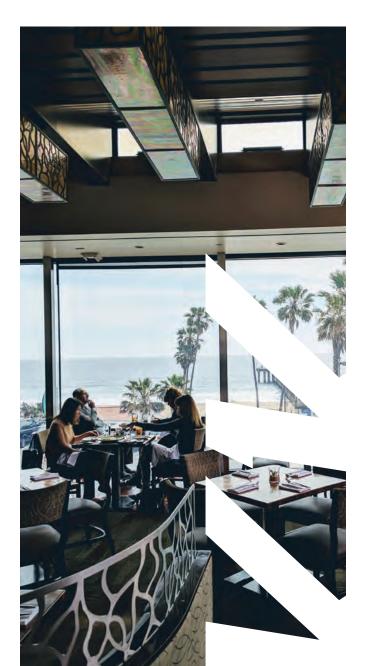
30HP HCYUM 8506 XRV-I

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

XRV PLUS MINI

Heat pump

62



XRV PLUS MINI

Heat pump







HCNU 806 XRV

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

	HCNU	HCNU	HCNU	HCNU	HCNU
Model	806 XRV	1056 XRV	1206 XRV	1406 XRV	1606 XRV
Maximum distance between O.U. and the farthest I.U.	40 m	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	20 m
Maximum height difference between O.U. (up high) and I.U.	10 m	20 m	20 m	30 m	30 m
Maximum height difference between O.U. (down low) and I.U.	10 m	20 m	20 m	20 m	20 m
Maximum height difference between I.U.	8 m	8 m	8 m	8 m	8 m
Maximum distance between I.U. and branch pipe	15 m	15 m	15 m	15 m	15 m
Maximum length of the pipes	50 m	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 806 XRV	HCNU 1056 XRV	HCNU 1206 XRV	HCNU 1406 XRV	HCNU 1606 XRV		
Power		HP	2.5	3.2	4.5	5	6		
Rated capacity ¹		kW	7.20	9.00	12.20	14.00	15.50		
Rated absorbed power	Cooling	kW	2.18	2.64	4.32	4.56	5.35		
Energy efficiency coefficient (rated)		EER	3.30	3.41	2.83	3.07	2.90		
Rated capacity ²		kW	7.20	9.00	14.00	16.00	18.00		
Rated absorbed power	Heating	kW	1.82	2.12	3.17	4.08	5.71		
Energy performance coefficient (rated)		COP	3.95	4.29	4.40	3.92	3.20		
Electrical data									
Power supply Ph-V-Hz					1-220~240V-50Hz				
Maximum current		A	21.25	28.80	35.00	40.00	40.00		
Refrigerant circuit/features				,					
Refrigerant ³ Type					R410A (2088)				
Quantity refrigerant pre-load (tons of CO2 eq	uivalent)	Ka	2.2 (4.594)	2.5 (5.220)	3 (6.264)	3.4 (7.099)	3.8 (7.934)		
Compressor		no. / type	1/ Rotary DC Inverter						
Ditf-it-i	Liquid	mm (inch)	9.53 (3/8")	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")	15.9 (5/8")	19.1 (3/4")		
Product Specifications									
Dimensions	LxHxD	mm	982x712x440	950x84	40x426	1040x8	365x523		
Net weight		Kg	55	72.5	84	91.4	95.4		
Sound power level	max	dB(A)	65	68	70	71	71		
Sound pressure level at 1 m	max	dB(A)	54	54	56	56	56		
Treated air volume	max	m³/h	3700	5200	5000	5400	5200		
On anoting limits (autoide termonature)	Cooling				-5~55				
Operating limits (outside temperature) Heating		%			-15~27				
Max. connectable I.U. (min - max)				1-6	1-7	1-8	1-9		
Capacity of connectable indoor units		%	50 - 130						

^{1.} 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.

^{2.} Heating capacity tested in accordance with ISO 515 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.

3. 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 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;

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 equiva	lent)	Kg	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			
Diameter refrigerant pipes	Liquid	mm (inch)	9.53 (3/8")	9.53 (12.7 (1/2")			
Diameter remigerant pipes	Gas	mm (inch)	19.1 (3/4")	22.2 (25.4 (1")			
Product Specifications									
Dimensions	LxHxD	mm			1120x1558x528				
Net weight		Kg	14	13	14	14	157		
Sound power level	max	dB(A)	7	8	7	8	81		
Sound pressure level at 1 m	max	dB(A)	5		59	60	61		
Treated air volume	max	m³/h	90	00	10000	11000	11300		
Operating limits (outside temperature)	Cooling	°C			-5~48				
Heating -C			-20~24						
Max. connectable I.U. (min - max)		n°	1-11 1-13		1 - 15 1 - 16		1 - 20		
Capacity of connectable indoor units		%			50 - 130				

^{1.} 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.

^{2.} Heating capacity tested in accordance with ISO 515 Standards; outside temperature 7° C DB, 6° C WB and inside temperature 20° C DB, 15° C WB.

3. 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 1kg of this refrigerant fluid were released into the atmosphere, therefore, the impact on global warming would be 2088 times higher than 1kg 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 INDIVIDUAL

Heat pump

65



XRV INDIVIDUAL Heat pump



HCYUM 4006 XRV-I HCYUM 4506 XRV-I HCYUM 5006 XRV-I

HCYUM 5606 XRV-I HCYUM 6156 XRV-I

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

DC Inverter motor fan:

- broader fan speed modulations;
- less noise.

Self-diagnosis function for main system problems.

Individual modules from 40 to 85 kW for simplified installation without the need for modular units.

Elegant, compact design.

Splitting and height difference lengths

Model	HCYUM 4006 XRV-I	HCYUM 4506 XRV-I	HCYUM 5006 XRV-I	HCYUM 5606 XRV-I	HCYUM 6156 XRV-I
Maximum distance between O.U. and the farthest I.U.	200 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.	90 m				
Maximum height difference between O.U. (down low) and I.U.	110 m				
Maximum height difference between I.U.	30 m				
Maximum length of the pipes	1000 m				

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -25° C ~ +24° C.

Auto-addressing of indoor units.

Maximum number of connectable indoor units is 36.

Model			HCYUM 4006 XRV-I	HCYUM 4506 XRV-I	HCYUM 5006 XRV-I	HCYUM 5606 XRV-I	HCYUM 6156 XRV-I	
Power		HP	14	16	18	20	22	
Rated capacity ¹		kW	40.00	45.00	50.00	56.00	61.50	
Rated absorbed power	Cooling	kW	11.00	12.90	14.70	16.00	20.20	
Energy efficiency coefficient (rated)		EER	3.65	3.50	3.40	3.50	3.05	
Rated capacity ²		kW	40.00	45.00	50.00	56.00	61.50	
Rated absorbed power	Heating	kW	9.30	10.70	12.20	13.80	17.60	
Energy performance coefficient (rated)		COP	4.30	4.20	4.10	4.05	3.50	
Electrical data								
Power supply		Ph-V-Hz			3-380~415V50Hz			
Maximum current		A	33.10	33.10	34.80	45.90	47.90	
Refrigerant circuit/features								
Refrigerant ³	Type (GWP)			R 410A (2088)				
Quantity refrigerant pre-load (tons of CO2 equ	uivalent)	Kg	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	
Compressor		no. / type		2 / Scroll I	2 / Scroll DC Inverter			
Diameter refrigerant pines	Liquid	mm (inch)	15.9 ((5/8")		19.1 (3/4")		
Diameter refrigerant pipes	Gas	mm (inch)			31.8 (1"1/4)			
Product Specifications								
Dimensions	LxHxD	mm		1340x1635x850		1340x1	535x825	
Net weight		Kg	277	277	295	344	344	
Sound power level	max	dB(A)	85	8	8	8	8	
Sound pressure level at 1 m	max	dB(A)	62	6	5	6	6	
Treated air volume	max	m³/h	13000	13000	13000	17000	17000	
Operating limits (autside temperature)	Cooling	°C			-5~48			
Operating limits (outside temperature) Heating					-25~24			
Max. connectable I.U. (min - max)		n°	23	26	29	33	36	
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.

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.



^{3.} 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

XRV INDIVIDUAL Heat pump



HCYUM 6706 XRV-I HCYUM 7856 XRV-I HCYUM 7306 XRV-I HCYUM 8506 XRV-I

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

DC Inverter motor fan:

- broader fan speed modulations;
- less noise.

Self-diagnosis function for main system problems.

Individual modules from 40 to 85 kW for simplified installation without the need for modular units.

Elegant, compact design.

Splitting and height difference lengths

Model	HCYUM 6706 XRV-I	HCYUM 7306 XRV-I	HCYUM 7856 XRV-I	HCYUM 8506 XRV-I
Maximum distance between O.U. and the farthest I.U.	200 m	200 m	200 m	200 m
Maximum distance from the first branch pipe to the farthest I.U.	40 m	40 m	40 m	40 m
Maximum height difference between O.U. (up high) and I.U.	90 m	90 m	90 m	90 m
Maximum height difference between O.U. (down low) and I.U.	110 m	110 m	110 m	110 m
Maximum height difference between I.U.	30 m	30 m	30 m	30 m
Maximum length of the pipes	1000 m	1000 m	1000 m	1000 m

Broad operating range:

- cooling -5° C ~ +48° C;
- heating -25° C ~ +24° C.

Auto-addressing of indoor units.

Maximum number of connectable indoor units is 50.

Model			HCYUM 6706 XRV-I	HCYUM 7306 XRV-I	HCYUM 7856 XRV-I	HCYUM 8506 XRV-I			
Power		HP	24	26	28	30			
Rated capacity ¹		kW	67.00	73.00	78.50	85.00			
Rated absorbed power	Cooling	kW	21.60	21.60	24.90	28.30			
Energy efficiency coefficient (rated)		EER	3.10	3.40	3.15	3.00			
Rated capacity ²		kW	67.00	73.00	78.50	85.00			
Rated absorbed power	Heating	kW	16.80	18.10	21.80	24.30			
Energy performance coefficient (rated)		COP	4.00	4.05	3.60	3.50			
Electrical data									
Power supply		Ph-V-Hz		3-380~4	15V50Hz				
Maximum current		A	54.50	52.90	58.70	64.90			
Refrigerant circuit/features									
Refrigerant ³ Type				R 410A	(2088)				
Quantity refrigerant pre-load (tons of CO2 equ	uivalent)	Kg	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)	11.8 (24.638)			
Compressor		no. / type	2 / Scroll DC Inverter						
Diameter refrigerant pipes	Liquid	mm (inch)	19.1 (3/4") 22.2 (7/8")						
Diameter reingerant pipes	Gas	mm (inch)		31.8 (1"1/4)		38.1 (1"1/2)			
Product Specifications									
Dimensions	LxHxD	mm			330x850				
Net weight		Kg	407	429	429	475			
Sound power level	max	dB(A)	89		90				
Sound pressure level at 1 m	max	dB(A)	67		68				
Treated air volume	max	m³/h	25000	25000	25000	24000			
Operating limits (outside temperature)	Cooling	°C		-5^	-48				
operating innits (outside temperature)	Heating	%		-25					
Max. connectable I.U. (min - max)		n°	39	43	46	50			
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.

^{2.} Redring capacity tested in accordance with 150 51st Said nadios, outside temperature? C.D.B, 8 C.W.B. alich inside temperature 20 C.D.B, 15 C.W.B.
3. 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 - P SERIES INDOOR UNITS

		kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	12.50	14.00	16.00	20.00	28.00
Cassette	8-ways compact 60x60	HTFU XRV-P	•	•	•	•									
Cass	8-ways 84x84	HTBU XRV-P					•	•	•	•		•			
	medium static pressure	HUCU XRV-P	•	•	•	•	•	•	•	•					
Ducted	high static pressure	HVDU XRV-P						•	•	•		•	•	•	•
	all-outside air	HVDU-F XRV-P									•	•			
Wall		HKEU XRV-P	•	•	•	•	•	•	•						
Floor	floor / ceiling	HSFU XRV-P			•	•	•	•	•	•		•			
FIC	recessed	HFCU XRV-P	•	•	•	•	•								

ENTHALPY HEAT RECOVERY UNIT

	300	400			
	•	•			
	500	800	1000	1500	2000
00	•	•	•	•	•



HTFU XRV-P

8-ways compact cassette 60x60



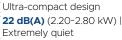








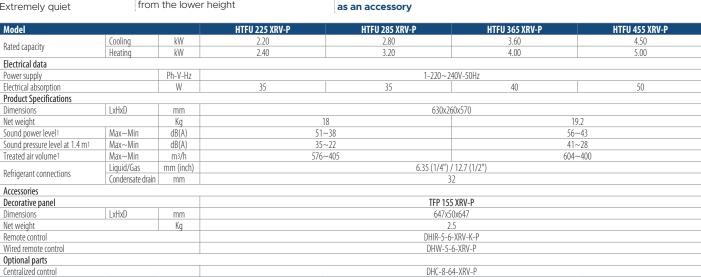




Condensate drain pump with possibility of raising the discharge up to 500 mm from the lower height

360° air diffusion

The control must be purchased



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

HTBU XRV-P

8-ways cassette 84x84









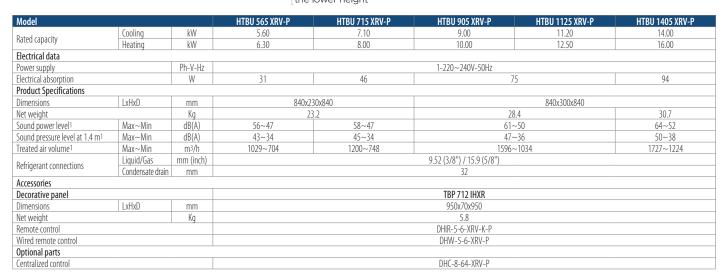


Optimised fan design to attenuate air resistance and reduce noise level

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



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

HUCU XRV-P

Ducted with medium static pressure









Only 210 mm high

(2.20~7.10 kW) ultra-compact design: perfect for use in hotels thanks to its small size 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



Model			HUCU 225 XRV-P	HUCU 285 XRV-P	HUCU 365 XRV-P	HUCU 455 XRV-P		
Dated canacity	Cooling	kW	2.20	2.80	3.60	4.50		
Rated capacity Heating		kW	2.60	3.20	4.00	5.00		
Electrical data								
Power supply Ph-V-Hz				1-220~24	10V-50Hz			
Electrical absorption W		W	40	40	45	92		
Product Specifications								
Dimensions	LxHxD	mm			1000x210x500			
Net weight		Kg		18		21.5		
Sound power level ¹	Max~Min	dB(A)	50-	~41	51~43	54~43		
Sound pressure level at 1.4 m ¹	Max~Min	dB(A)	32-	~23	33~25	36~25		
Treated air volume1	Max~Min	m³/h	520-	~300	580~370	800~400		
Fan static pressure	Std/Max	Pa		10/.	50			
Defrigerant connections	Liquid/Gas	mm (inch)		6.35 (1/4") /	12.7 (1/2")			
Refrigerant connections	Condensate drain	mm	25					
Accessories								
Remote control				DHIR-5-6-	XRV-K-P			
Wired remote control			DHW-5-6-XRV-P					
Optional parts								
Centralized control			DHC-8-64-XRV-P					

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

Model			HUCU 565 XRV-P	HUCU 715 XRV-P	HUCU 905 XRV-P	HUCU 1125 XRV-P			
Dated canacity	Cooling	kW	5.60	7.10	9.00	11.20			
Rated capacity	ed capacity Heating		6.30	8.00	10.00	12.50			
Electrical data									
Power supply		Ph-V-Hz		1-220~2	40V-50Hz				
Electrical absorption		W	92	98	120	200			
Product Specifications									
Dimensions	LxHxD	mm	1000x210x500	1220x210x500	1230x2	x270x775			
Net weight		Kg	21.5 27.5		37				
Sound power level ¹	Max~Min	dB(A)	54~46	55~46	55~46	57~51			
Sound pressure level at 1.4 m ¹	Max~Min	dB(A)	36~28	37~28	37~28	39~33			
Treated air volume1	Max~Min	m³/h	830~560	1000~680	1260~780	1500~1080			
Fan static pressure	Std/Max	Pa	10,	/50	20/	20/100			
Refrigerant connections	Liquid/Gas	mm (inch)		9.52 (3/8")	/ 15.9 (5/8")				
nemgerani connections	Condensate drain	mm	25						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-P						
Optional parts					·				
Centralized control			DHC-8-64-XRV-P						

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



HVDU XRV-P

Ducted with high static pressure





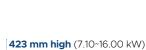


Available static pressure:

200 Pa (7.10~16.00 kW)

250 Pa (20.00~28.00 kW)





compact size

Rear air intake

Ease of maintenance Compatible with systems AIRZONE



The control must be purchased as an accessory

Madal			IIVDII 745 VDV D	HIVDH OOF VOV D	IIVDII 4435 VDV D	UVDU 4 405 VDV D	HWDH 4 CAE VDV D	HIVDH 2005 VDV D	HIVDH 2005 VDV D	
Model			HVDU 715 XRV-P	HVDU 905 XRV-P	HVDU 1125 XRV-P	HVDU 1405 XRV-P	HVDU 1605 XRV-P	HVDU 2005 XRV-P	HVDU 2805 XRV-P	
Rated capacity	Cooling	kW	7.10	9.00	11.20	14.00	16.00	20.00	28.00	
nated capacity	Heating	kW	8.00	10.00	12.50	16.00	17.00	22.50	31.50	
Electrical data										
Power supply		Ph-V-Hz				1-220~240V-50Hz				
Electrical absorption		W	180	220	380	420	700	990	1200	
Product Specifications										
Dimensions	LxHxD	mm		965x423x690		1322x423x691		1454x515x931		
Net weight		Kg	41	51	51	68	68	130		
Sound power level1	Max~Min	dB(A)	64~60	68~63	68~63	71~66	72~68	75-	~68	
Sound pressure level at 1.4 m1	Max~Min	dB(A)	46~42	50~45	50~45	53~48	54~50	57-	~50	
Treated air volume1	Max~Min	m³/h	1360~1160	1420~1140	1870~1350	2240~1600	2660~1880	4330~3730		
Fan static pressure	Std/Max	Pa			100/200			170	/250	
Defricance connections	Liquid/Gas	mm (inch)			9.52 (3/8") / 15.9 (5/8")			12.7 (1/2") / 22.2 (7/8")		
Refrigerant connections	Condensate drain	mm			25			32		
Accessories										
Remote control			DHIR-5-6-XRV-K-P							
Wired remote control			DHW-5-6-XRV-P							
Optional parts										
Centralized control						DHC-8-64-XRV-P				

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

HVDU-F XRV-P All-outside air ducted









These air handling units can be connected together with the indoor units to the same refrigerant system, thus increasing the design flexibility and significantly reducing operating costs

423 mm high ultra-compact design

200 Pa max static pressure of fans

Automatic "all-outside air" function to save energy when the outside temperature drops below the set temperature

The control must be purchased as an accessorv

Model			HVDU-F 1255 XRV-P	HVDU-F 1405 XRV-P			
Datad canadity	Cooling1	kW	12.50	14.00			
Rated capacity	Heating2	kW	10.50	12.00			
Electrical data							
Power supply		Ph-V-Hz	1-220~240	V-50Hz			
Electrical absorption		W	480				
Product Specifications							
Dimensions	LxHxD	mm	1322x423	x691			
Net weight	ht Kg		68				
Sound power level ³	Max~Min	dB(A)	66~6	0			
Sound pressure level at 1.4 m ³	Max~Min	dB(A)	48~4	2			
Treated air volume ³	Max~Min	m³/h	2000~1	500			
Fan static pressure	Std/Max	Pa	180/20	00			
Defriessent connections	Liquid/Gas	mm (inch)	9.52 (3/8") / 15.9 (5/8")				
Refrigerant connections	Condensate drain	mm	25				
Application area	Cooling	%	-5 / 1	6			
(100% outdoor air)	Heating	Ĺ	20 / 43				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-P				
Optional parts							
Centralized control			DHC-8-64-XRV-P				

^{1.} Cooling test conditions: 100% outdoor air 33°C DB, 28°C WB.
2. Heating test conditions: 100% outdoor air 0°C DB, -2,9°C WB.
3. Values related to Max and Min speed of 7 levels settable by remote control.

PROJECT VRF R410A FULL DC INVERTER

HKEU XRV-P Wall











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			HKEU 225 XRV-P	HKEU 285 XRV-P	HKEU 365 XRV-P	HKEU 455 XRV-P	HKEU 565 XRV-P	HKEU 715 XRV-P	HKEU 905 XRV-P		
Data dama da	Cooling	kW	2.20	2.80	3.60	4.50	5.60	7.10	9.00		
Rated capacity	Heating	kW	2.40	3.20	4.00	5.00	6.30	8.00	10.00		
Electrical data											
Power supply		Ph-V-Hz				1-220~240V-50Hz					
Electrical absorption		W	2	8	30	40	45	55	82		
Product Specifications											
Dimensions	LxHxD	mm	835x28	80x203	990x315x223			1194x343x262			
Net weight	weight Kg		8.4	9.5	11.4 12.8		2.8	17			
Sound power level ¹	Max~Min	dB(A)	46~44	46~44	48~45	50~46	53~49	59~51	63~53		
Sound pressure level at 1.4 m ¹	Max~Min	dB(A)	31~29	31~29	33~30	35~31	38~34	44~36	48~38		
Treated air volume1	Max~Min	m³/h	422~356	417~316	656~488	594~424	747~547	1195~809	1421~867		
Definement connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")					9.52 (3/8") / 15.9 (5/8")			
Refrigerant connections	Condensate drain	mm	16								
Accessories											
Remote control			DHIR-5-6-XRV-K-P								
Wired remote control			DHW-5-6-XRV-P								
Optional parts											
Centralized control				DHC-8-64-XRV-P							

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

HSFU XRV-P Floor/ceiling





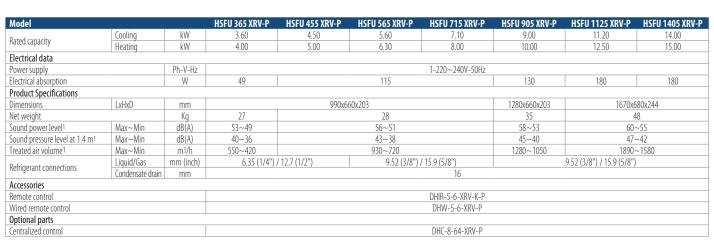




Auto Swing function | Optimises the distribution of air flow in the room Built-in electronic expansion valve

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

The control must be purchased as an accessory



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



PROJECT VRF R410A FULL DC INVERTER

.....

HFCU XRV-P Recessed floor











29 dB(A) (2.20~2.80 kW) extremely quiet Air intake from bottom **200 mm** | Maximum compactness for flush-mounted installation

The control must be purchased as an accessory



Model			HFCU 226 XRV-P	HFCU 286 XRV-P	HFCU 366 XRV-P	HFCU 456 XRV-P	HFCU 566 XRV-P		
Data desperits	Cooling	kW	2.20	2.80	3.60	4.50	5.60		
Rated capacity	Heating	kW	2.40	3.20	4.00	5.00	6.30		
Electrical data	· ·								
Power supply		Ph-V-Hz			1-220~240V-50Hz				
Electrical absorption		W	18	18	25	41	37		
Product Specifications									
Dimensions	LxHxD	mm	915x470x200	915x470x200	915x470x200	1133x470x200	1253x566x200		
Net weight		Kg	16.5	16.5	17.8	20.9	24.6		
Sound power level ¹	Max~Min	dB(A)	-	-	-	-	-		
Sound pressure level at 1.4 m ¹	Max~Min	dB(A)	36~29	36~29	37~30	37~30	41~31		
Treated air volume1	Max~Min	m³/h	509~449	509~449	547~409	623~388	623~388		
Fan static pressure	Std/Max	Pa	0/60	0/60	0/60	0/60	0/60		
Refrigerant connections	Liquid/Gas	mm (inch)	6.35 (1/4") / 12.7 (1/2")						
henigerani connections	Condensate drain	mm	18.5	18.5	18.5	18.5	18.5		
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-P						
Optional parts									
Centralized control					DHC-8-64-XRV-P				

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

.....

TOTAL HEAT EXCHANGER

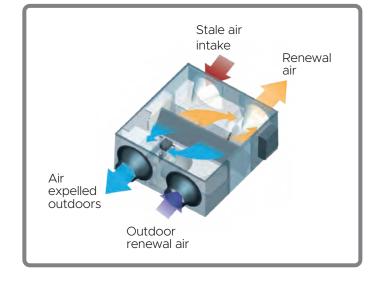


EHIN 304~404



EHIN 504~2004

The control must be purchased as an accessory



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.

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

Depending on the season, the indoor air heats or cools the outdoor air, which is introduced without coming into contact with it.

- 7 power sizes: 300~2000 m³/h.
- DC Inverter fan.
- Mandatory wired remote control.

Model			EHIN 304	EHIN 404	EHIN 504	EHIN 804	EHIN 1004	EHIN 1504	EHIN 2004			
Exchange efficiency1	Enthalpy	%	72.1	73.5	74.0	72.3	76.0	69.4	74.7			
Exchange efficiency	Thermal	%	75.5	77.7	80.6	78.7	82.8	75.5	77.2			
Electrical data												
Power supply		Ph-V-Hz	1-220~240-50									
Power absorption		W	100	110	150	320	380	680	950			
Rated absorbed current		A	0.84	0.97	1.20	2.40	2.90	3.80	5.70			
Product Specifications	Product Specifications											
External dimensions	LxHxD	mm	914x272x1195	1204x272x1276	1106x390x1311	1286x390x1311	1526x390x1311	1425x615x1740	1625x685x1811			
Net weight		Kg	56.5	71.5	76	80	90	181.5	208.5			
Sound power level	Hi	dB(A)	48	48	50	55	54	69	70			
Treated air		m³/h	300	400	500	800	1000	1500	2000			
Fan static pressure	Hi	Pa	90	100	90	140	160	180	200			
Ducting flange		mm	ø144	ø198	ø244	ø244	ø244	ø346x326	ø346x326			
Ducting flange			Not required Necessary									
Field of application (max UR 8	0%)	°€		-7~43								
Field of application			IPX2									
Accessories												
Wired remote control (not incl	uded)		DHW EH									
Optional parts												
Group control						DHWT-16-XRV-P						
Centralized control					DHC-8	3-64-XRV-P / DHC-48-384-	-XRV-P					

Reference legislation: EU Ecodesign Directive 1253/2014 for non-residential ventilation units (NRVU) and residential ventilation (RVU).

1. Values related to the high speed of the 3 levels settable by wired remote control.



EEV KIT

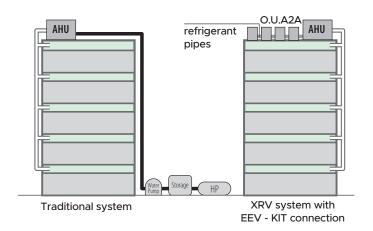
Kit for connecting AHU with direct expansion coil to Hokkaido XRV systems.



HAHU 2-9 XRV-R
HAHU 9-20 XRV-R
HAHU 36-56 XRV-R

Traditional VS XRV systems with EET-KIT

Below is a comparison between a traditional connection system and an XRV system with EEV-KIT connection.



EEV-KIT lets you connect direct air handling unit expansion coils to XRV systems.

These kits are composed of an expansion valve and electronic control to manage refrigerant flow toward the AHU: in this way, AHU systems can make use of the advantages linked to XRV technology.

EEV-KIT Advantages

High energy efficiency thanks to XRV technology which involves:

- improved inside temperature control in rooms;
- reduced energy consumption linked to Inverter technology;
- reduced outdoor unit start&stop cycles;
- lower installation and maintenance costs with respect to traditional systems which use an AHU.

EEV-KIT Application diagrams

Diagram type A: Mixed system indoor unit XRV + AHU

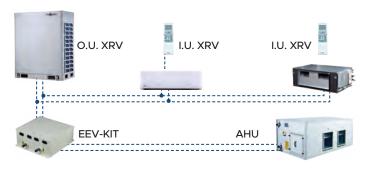
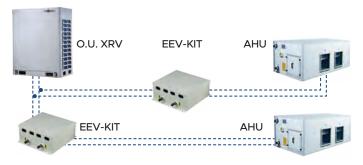


Diagram type B: AHU only



Installation and operation

Here are a series of instructions regarding EEV-KIT functionality and the correct installation methods

- Failure feedback function: error codes can be shown on the display when malfunctions occur.
 It is also possible to verify the set temperature.
- Maximum number of EEV-Kit that can be connected to an AHU:
 4 (maximum reachable capacity 224 kW).
- Maximum distance between EEV Kits and AHU: 8 m.
 Kit can be connected with XRV systems with R410A.

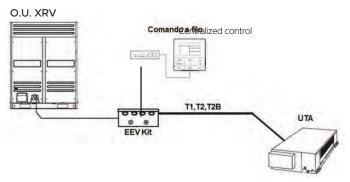
• • • • • • • • •

EEV KIT

Technical data

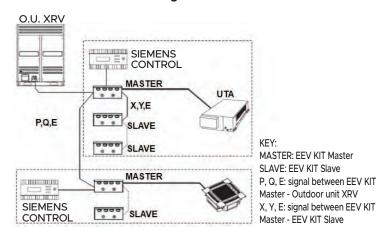
Model			HAHU 2-9 XRV-R	HAHU 9-20 XRV-R	HAHU 20-36 XRV-R	HAHU 36-56 XRV-R	
Rated capacity		kW	2.20~9.00	9.00~20.00	20.00~36.00	36.00~56.00	
Power supply Ph-V-Hz				1-220~24	10V-50Hz		
Dimensions	Dimensions LxHxD mm			344x3	93x125		
Net weight		Kg	5.7	5.7	5.8	6	
In/out refrigerant conne	ections	mm (inch)	9.53 (3/8")	9.53 (3/8")	12.7 (1/2")	15.9 (5/8")	
Serial control		type		Wired rem	note control		
Optional parts							
Third-party control				Siemens F	POL 638.70		
Centralized control			DHC-8-64-XRV-P				

Electrical connections diagram



Room temperature control occurs with the same logic as an XRV: comparing the temperature detected by the T1 sensor and the setting temperature Ts, it is possible to start or stop the outdoor unit, calculate the required thermal load and manage the refrigerant flow through the electronic expansion valve.

Master-slave connection logic



In the case of parallel connections of more than one EEV-KIT to service a AHU, the connection logic to be followed is that of Master-Slave.

EEV-KIT type selection

Model	HP	I.U. rated capacity (kW)
	0.8	Between 2.20 and 2.80 kW
	1	Between 2.80 and 3.60 kW
114111120	1.2	Between 3.60 and 4.50 kW
HAHU 2-9 XRV-R	1.7	Between 4.50 and 5.60 kW
ARV-R	2	Between 5.60 and 7.10 kW
	2.5	Between 7.10 and 8.00 kW
	3	Between 8.00 and 9.00 kW
	3.2	Between 9.00 and 11.20 kW
HAHU 9-20	4	Between 11.20 and 14.00 kW
XRV-R	5	Between 14.00 and 18.00 kW
	6	Between 18.00 and 20.00 kW
114111120 20	8	Between 20.00 and 25.00 kW
HAHU 20-36 XRV-R	10	Between 25.00 and 30.00 kW
ARV-R	12	Between 30.00 and 36.00 kW
	14	Between 36.00 and 40.00 kW
HAHU 36-56	16	Between 40.00 and 45.00 kW
XRV-R	18	Between 45.00 and 50.00 kW
	20	Between 50.00 and 56.00 kW

The choice of the quantities and capacity of the EEV KITs to be installed is related to the power of the AHU to which it must be connected.

Example

If the AHU has a capacity of 92 kW, 2 EEV-KITs can be installed:

- HAHU 20-36 XRV-R setting capacity 12HP;
- HAHU 36-56 XRV-R setting capacity 20HP.