



PROJECT VRF R410A FULL DC INVERTER

EFFICIENCY AND EASE OF INSTALLATION

Thanks to its continued commitment to technological research and its long experience in the heating/cooling systems market in Italy and Europe, Hokkaido has introduced the PROJECT VRF R410A line, 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 applicative requirements of installers, designers and final customers.

PROJECT VRF R410A FULL DC INVERTER

Line up	66
XRV PREMIUM MODULAR	
Heat pump - 2 pipes	71
XRV SMART MODULAR	
Heat pump - 2 pipes	75
XRV PLUS HEAT RECOVERY	
Heat recovery - 3 pipes	78
XRV PLUS MINI	
Heat pump	82
PREMIUM INTERNAL UNITS	
Serie P	85
SMART INTERNAL UNITS	
Serie K	91
EEV KIT	97

PROJECT VRF R410A FULL DC INVERTER - LINE UP

XR V MULTI SYSTEM

Outdoor heat pump units - 2 pipes

XR V PREMIUM MODULAR



8~12HP



14~22HP

8HP	10HP	12HP	14HP
HCSU 2525 XR V-P	HCSU 2805 XR V-P	HCSU 3355 XR V-P	HCSU 4005 XR V-P
16HP	18HP	20HP	22HP
HCSU 4505 XR V-P	HCSU 5005 XR V-P	HCSU 5605 XR V-P	HCSU 6155 XR V-P

COMBINATIONS				
24HP	26HP	28HP	30HP	32HP
12 + 12	10 + 16	10 + 18	10 + 20	10 + 22
HCSU 3355 XR V-P HCSU 3355 XR V-P	HCSU 2805 XR V-P HCSU 4505 XR V-P	HCSU 2805 XR V-P HCSU 5005 XR V-P	HCSU 2805 XR V-P HCSU 5605 XR V-P	HCSU 2805 XR V-P HCSU 6155 XR V-P
34HP	36HP	38HP	40HP	42HP
12 + 22	18 + 18	16 + 22	18 + 22	20 + 22
HCSU 3355 XR V-P HCSU 6155 XR V-P	HCSU 5005 XR V-P HCSU 5005 XR V-P	HCSU 4505 XR V-P HCSU 6155 XR V-P	HCSU 5005 XR V-P HCSU 6155 XR V-P	HCSU 5605 XR V-P HCSU 6155 XR V-P
44HP	46HP	48HP	50HP	52HP
22 + 22	12 + 12 + 22	10 + 16 + 22	10 + 18 + 22	10 + 20 + 22
HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 3355 XR V-P HCSU 3355 XR V-P HCSU 6155 XR V-P	HCSU 2805 XR V-P HCSU 4505 XR V-P HCSU 6155 XR V-P	HCSU 2805 XR V-P HCSU 5005 XR V-P HCSU 6155 XR V-P	HCSU 2805 XR V-P HCSU 5605 XR V-P HCSU 6155 XR V-P
54HP	56HP	58HP	60HP	62HP
10 + 22 + 22	12 + 22 + 22	18 + 18 + 22	16 + 22 + 22	18 + 22 + 22
HCSU 2805 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 3355 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 5005 XR V-P HCSU 5005 XR V-P HCSU 6155 XR V-P	HCSU 4505 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 5005 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P
64HP	66HP	68HP	70HP	72HP
20 + 22 + 22	22 + 22 + 22	12 + 12 + 22 + 22	10 + 16 + 22 + 22	10 + 18 + 22 + 22
HCSU 5605 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 3355 XR V-P HCSU 3355 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 2805 XR V-P HCSU 4505 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 2805 XR V-P HCSU 5005 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P
74HP	76HP	78HP	80HP	82HP
10 + 20 + 22 + 22	10 + 22 + 22 + 22	12 + 22 + 22 + 22	18 + 18 + 22 + 22	16 + 22 + 22 + 22
HCSU 2805 XR V-P HCSU 5605 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 2805 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 3355 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 5005 XR V-P HCSU 5005 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 4505 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P
84HP	86HP	88HP		
18 + 22 + 22 + 22	20 + 22 + 22 + 22	22 + 22 + 22 + 22		
HCSU 5005 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 5605 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P	HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P HCSU 6155 XR V-P		

PROJECT VRF R410A FULL DC INVERTER - LINE UP

XRV MULTI SYSTEM

Outdoor heat recovery units - 3 pipes

XRV PLUS HEAT RECOVERY



8~16HP

8HP	10HP	12HP	14HP	16HP
HCSRU 2524 XRV-1 Plus	HCSRU 2804 XRV-1 Plus	HCSRU 3354 XRV-1 Plus	HCSRU 4004 XRV-1 Plus	HCSRU 4504 XRV-1 Plus

COMBINATIONS				
18HP	20HP	22HP	24HP	26HP
8+10	10+10	10+12	10+14	10+16
HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus
28HP	30HP	32HP	34HP	36HP
14+14	14+16	16+16	10+10+14	10+10+16
HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus
38HP	40HP	42HP	44HP	46HP
10+12+16	10+14+16	14+14+14	14+14+16	14+16+16
HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
48HP	50HP	52HP	54HP	56HP
16+16+16	8+10+16+16	10+10+16+16	10+12+16+16	10+14+16+16
HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
58HP	60HP	62HP	64HP	
14+14+14+16	14+14+16+16	14+16+16+16	16+16+16+16	
HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	

FLOW DIVIDER

Flow dividers for heat recovery function.

Compact, lightweight design. Up to 24 indoor units on the same divider.

	Divider model serie K/P	Dimensions (mm) LxHxD serie K/P	Connectable indoor units serie K/P	
			Total Capacity	Number of indoor units
	HPFD 1-8 XRV Plus	630x605x225	≤28 kW	1~8
	HPFD 1-16 XRV Plus	960x605x225	≤45 kW	1~16
	HPFD 1-24 XRV Plus	960x605x225	≤45 kW	1~24

PROJECT VRF R410A FULL DC INVERTER - LINE UP

XRV MULTI SYSTEM
Outdoor heat pump units

XRV PLUS MINI



3.75HP
single phase
HCNU 1054 XRV-1 Plus



5HP three-phase HCSU 1404 XRV-1 Plus	6HP three-phase HCSU 1604 XRV-1 Plus	6.5HP three-phase HCSU 1804 XRV-1 Plus
--	--	--



7HP three-phase HCYU 2004 XRV-1 Plus	8HP three-phase HCYU 2244 XRV-1 Plus	9HP three-phase HCYU 2604 XRV-1 Plus
--	--	--



14HP three-phase HCYU 4004 XRV-1 Plus	16HP three-phase HCYU 4504 XRV-1 Plus
---	---

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

PROJECT VRF R410A FULL DC INVERTER - LINE UP

XRV MULTI SYSTEM

Outdoor heat pump units - 2 pipes

XRV SMART MODULAR



8~10HP

8HP	10HP
HCSU 2524 XRV-K	HCSU 2804 XRV-K

COMBINATIONS		
16HP	18HP	20HP
8 + 8	8 + 10	10 + 10
HCSU 2524 XRV-K HCSU 2524 XRV-K	HCSU 2524 XRV-K HCSU 2804 XRV-K	HCSU 2804 XRV-K HCSU 2804 XRV-K

Combinations up to a maximum of 4 outdoor units are possible.

COMPATIBILITY CHART

INDOOR UNITS / OUTDOOR UNITS / CONTROLS

			INDOOR UNITS		
			ONLY	ONLY	MIX
			XRV-K		XRV-K
				XRV-P	XRV-P
OUTDOOR UNITS	OU 2 pipes	XRV-1 Plus	OK	OK	NO
		XRV-K	OK	OK	NO
		XRV-P	OK	OK	NO
	OU 3 pipes	XRV-1 Plus	OK	OK	NO
CONTROLS	Remote control	DHIR-5-6-XRV-K-P	NO	OK	
	Wired remote control	DTW 3 IHXR TOUCH	OK	NO	
		DTW IHXR SIMPLY	OK	NO	
		DTWS 4 IHXR COMPACT	OK	NO	
		DHW-5-6-XRV-K-P	NO	OK	
CENTRALISED CONTROLS	Manual	DTC IHXR TOUCH	OK	OK	
		DTCWT IHXR	OK	OK	
	WiFi	XRV MOBILE BMS	OK	OK	

XRV MULTI SYSTEM



XRV PREMIUM
MODULAR



XRV SMART
MODULAR



XRV PLUS
HEAT RECOVERY



XRV PLUS MINI

FULL DC INVERTER TECHNOLOGY FOR THE EXTERNAL UNITS OF ALL RANGES

Full DC Inverter technology has always characterised Hokkaido's proposal in the market of VRF systems, in heat pump and in heat recovery. These ranges are all equipped with a DC Inverter compressor and DC Inverter fan motor: outstanding results in terms of energy efficiency, reducing operation costs as well as CO₂ emissions.

HERE'S WHAT MAKES THE HOKKAIDO PROPOSAL "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. In this way, energy savings and high comfort are guaranteed in a wide outdoor temperature operation range, which has the following average values: cooling from -5° C to +43° C, heating from -20° C to +24° C.

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 on/off cycles

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

DC FAN MOTOR

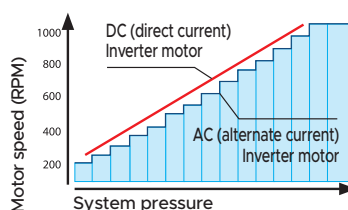
The use of the DC Inverter fan motor ensures energy savings during partial loads, as it adjusts the fan speed and helps make the unit more silent. The fan and outlet grille design guarantees increased air flow, thus creating a low noise level.



DC Inverter compressor



DC Inverter fan motor



PROJECT VRF R410A FULL DC INVERTER

XRV PREMIUM MODULAR Heat pump - 2 pipes



FULL DC INVERTER

HCSU 2525 XRV-P
HCSU 2805 XRV-P
HCSU 3355 XRV-P

FULL DC INVERTER

HCSU 4005 XRV-P
HCSU 4505 XRV-P
HCSU 5005 XRV-P
HCSU 5605 XRV-P
HCSU 6155 XRV-P

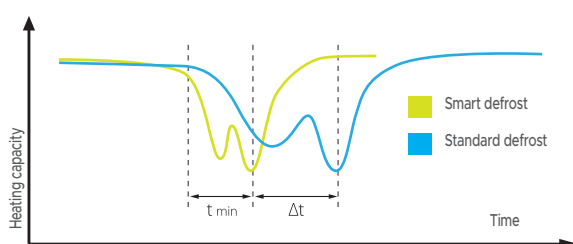
The range is characterised by 8 basic modules: 8, 10, 12, 14, 16, 18, 20 and 22HP. Wide range of available power: from 25.2 to 246.0 kW.

Fan design with the sharp-edged blade reduces airflow resistance. The outdoor units and the exchangers inside them are made with anticorrosive treatments.

- COP values up to 5.09 (mod. 8HP)
- EER values up to 4.03 (mod. 8HP)

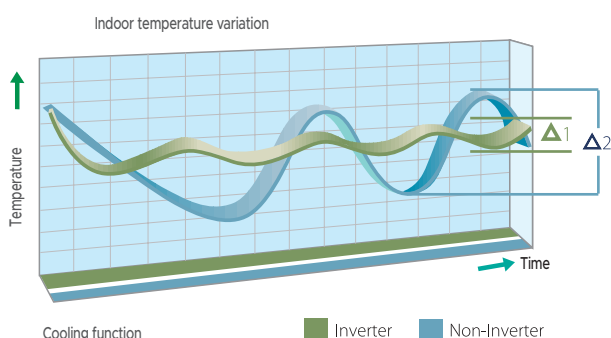
Smart defrost

Smart defrost technology calculates the time required for defrosting based on the current system conditions, eliminating heat losses from unnecessary defrost. A special defrost valve reduces the time required for defrost to a minimum of four minutes.

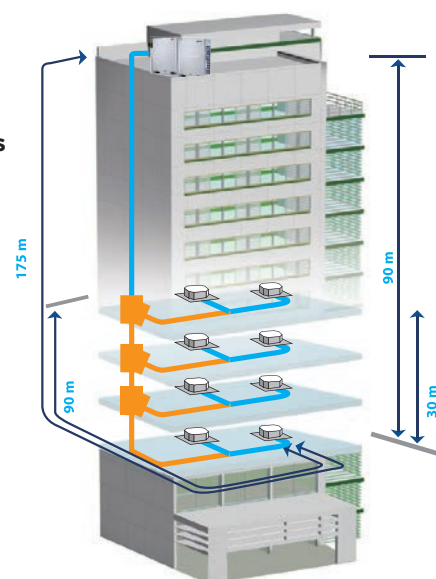


Fast cooling and heating

The DC Inverter compressor quickly reaches full capacity, ensuring faster cooling and heating with lower temperature variation during cooling/heating operations.



Splitting lengths and height differences



The XRV PREMIUM Modular series can connect up to 64 indoor units.

Total length of system piping: 1000 m

Maximum distance between O.U. and the farthest I.U. = 175 m (equivalent 200 m)

Maximum distance from the first branch pipe to the farthest = 90 m

Maximum height difference between O.U. (up high) and I.U. = 90 m

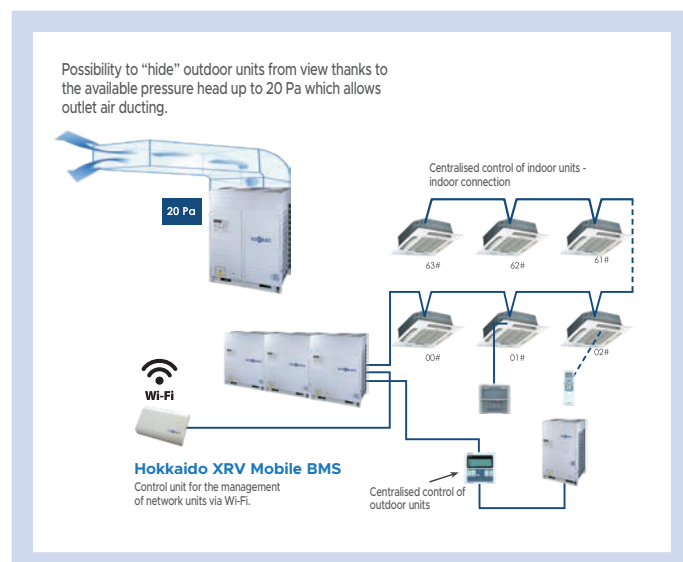
Maximum height difference between O.U. (down low) and I.U. = 110 m

Maximum height difference between I.U. = 30 m

Installation and operation

- Wide range of external operating temperatures: heat. - 20° C / 24° C; cool. - 5° C / 43° C.
- Intelligent operation logic in modular combination with rotation and distribution of operating hours between the O.U.
- Backup function in modular combination.
- Silent operation and self-addressing of the O.U.

Network wiring diagram



XRV PREMIUM MODULAR

Heat pump - 2 pipes



Model / Combination		HCSU 252S XRV-P	HCSU 280S XRV-P	HCSU 335S XRV-P	HCSU 400S XRV-P	HCSU 450S XRV-P	HCSU 500S XRV-P	HCSU 560S XRV-P
Power	HP	8	10	12	14	16	18	20
Rated cooling capacity (1)	kW	25.2	28.0	33.5	40.0	45.0	50.0	56.0
Rated heating capacity (2)	kW	27.0	31.5	37.5	40.0	45.0	50.0	56.0
Electrical data								
Power supply	Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Electric consumption in cooling mode (rated)	kW	6.25	7.49	8.91	11.66	13.64	14.71	16.47
Electric consumption in heating mode (rated)	kW	5.30	6.89	8.91	9.83	11.69	12.50	14.00
EER performance coefficient in cooling mode	W/W	4.03	3.74	3.76	3.43	3.30	3.40	3.40
COP performance coefficient in heating mode	W/W	5.09	4.57	4.21	4.07	3.85	4.00	4.00
Refrigerant circuit/features								
Refrigerant	type (GWP) Kg (tons CO2)	R410A (2088) 9 (18.792)	R410A (2088) 9 (18.792)	R410A (2088) 11 (22.968)	R410A (2088) 13 (27.144)	R410A (2088) 13 (27.144)	R410A (2088) 13 (27.144)	R410A (2088) 16 (33.408)
DC Inverter compressor	no. / type	1/Scroll DC Inverter	1/Scroll DC Inverter	1/Scroll DC Inverter	2/Scroll DC Inverter	2/Scroll DC Inverter	2/Scroll DC Inverter	2/Scroll DC Inverter
Refrigerant connections (3)	Liquid	Ø mm (inch)	12.7 (1/2")	12.7 (1/2")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")	15.9 (5/8")
	Gas	Ø mm (inch)	25.4 (1")	25.4 (1")	25.4 (1")	31.8 (1 1/4")	31.8 (1 1/4")	31.8 (1 1/4")
	Parallel oil	Ø mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length	m	1000	1000	1000	1000	1000	1000	1000
Max height difference between indoor units	m	30	30	30	30	30	30	30
Max height difference between outdoor and indoor units	O.U. up-down	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications								
Dimensions (4)	LxHxD	mm	990x1635x790	990x1635x790	990x1635x790	1340x1635x790	1340x1635x790	1340x1635x790
Net weight	Kg		219	219	237	297	305	340
Sound pressure level at 1 m	max	dB(A)	59	63	62	66	66	66
Sound power level	max	dB(A)	79	83	82	88	88	88
Fan air flow	max	m³/h	12000	12000	12000	14000	14000	16000
Operating temp. range in cooling mode	°C / DB		-5 / 43	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
Operating temp. range in heating mode	°C / WB		-20 / 24	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Connectable indoor units	no.		13	16	20	23	26	33
Capacity of connected indoor unit	%		50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

Model / Combination		HCSU 615S XRV-P HCSU 615S XRV-P	HCSU 335S XRV-P HCSU 335S XRV-P HCSU 615S XRV-P	HCSU 280S XRV-P HCSU 450S XRV-P HCSU 615S XRV-P	HCSU 280S XRV-P HCSU 500S XRV-P HCSU 615S XRV-P	HCSU 280S XRV-P HCSU 560S XRV-P HCSU 615S XRV-P	HCSU 280S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P	HCSU 335S XRV-P HCSU 615S XRV-P HCSU 615S XRV-P
Power	HP	44 (22+22)	46 (12+12+22)	48 (10+16+22)	50 (10+18+22)	52 (10+20+22)	54 (10+22+22)	56 (12+22+22)
Rated cooling capacity (1)	kW	123.0	128.5	134.5	139.5	145.5	151.5	156.5
Rated heating capacity (2)	kW	123.0	136.5	138.0	143.0	149.0	154.5	160.5
Electrical data								
Power supply	Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Electric consumption in cooling mode (rated)	kW	39.68	37.66	40.97	42.04	43.8	47.17	48.59
Electric consumption in heating mode (rated)	kW	32.36	34.00	34.76	35.57	37.07	39.25	41.27
EER performance coefficient in cooling mode	W/W	3.10	3.41	3.28	3.32	3.32	3.20	3.22
COP performance coefficient in heating mode	W/W	3.80	4.01	3.97	4.02	4.02	3.94	3.89
Refrigerant circuit/features								
Refrigerant	type (GWP) Kg (tons CO2)	R410A (2088) 32 (66.816)	R410A (2088) 38 (79.344)	R410A (2088) 38 (79.344)	R410A (2088) 38 (79.344)	R410A (2088) 41 (85.608)	R410A (2088) 41 (85.608)	R410A (2088) 43 (89.784)
DC Inverter compressor	no. / type	4/Scroll DC Inverter	4/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter	5/Scroll DC Inverter
Refrigerant connections (3)	Liquid	Ø mm (inch)	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")
	Gas	Ø mm (inch)	38.1 (1 1/2")	38.1 (1 1/2")	38.1 (1 1/2")	41.3 (1 5/8")	41.3 (1 5/8")	41.3 (1 5/8")
	Parallel oil	Ø mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length	m	1000	1000	1000	1000	1000	1000	1000
Max height difference between indoor units	m	30	30	30	30	30	30	30
Max height difference between outdoor and indoor units	O.U. up-down	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications								
Dimensions (4)	LxHxD	mm	2780x1635x790	3520x1635x790	3870x1635x790	3870x1635x790	3870x1635x790	3870x1635x790
Net weight	Kg		680	814	856	864	899	917
Sound pressure level at 1 m	max	dB(A)	69	69	70	70	70	70
Sound power level	max	dB(A)	91	90	92	92	92	92
Fan air flow	max	m³/h	32000	40000	42000	44000	44000	44000
Operating temp. range in cooling mode	°C / DB		-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
Operating temp. range in heating mode	°C / WB		-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Connectable indoor units	no.		64	64	64	64	64	64
Capacity of connected indoor unit	%		50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(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° 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.
(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 90m.
(4) Space between the paired units = 100 mm.

XRV PREMIUM MODULAR

Heat pump - 2 pipes



HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 5005 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P
22	24 (12+12)	26 (10+16)	28 (10+18)	30 (10+20)	32 (10+22)	34 (12+22)	36 (18+18)	38 (16+22)	40 (18+22)	42 (20+22)
61.5	67.0	73.0	78.0	84.0	89.5	95.0	100.0	106.5	111.5	117.5
61.5	75.0	76.5	81.5	87.5	93.0	99.0	100.0	106.5	111.5	117.5
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
19.84	17.82	21.13	22.2	23.96	27.33	28.75	29.42	33.48	34.55	36.31
16.18	17.82	18.58	19.39	20.89	23.07	25.09	25.00	27.87	28.68	30.18
3.10	3.76	3.45	3.51	3.51	3.27	3.30	3.40	3.18	3.23	3.24
3.80	4.21	4.12	4.20	4.19	4.03	3.95	4.00	3.82	3.89	3.89
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
16 (33.408)	22 (45.936)	22 (45.936)	23 (48.024)	25 (52.200)	25 (52.200)	27 (56.376)	26 (54.288)	29 (60.552)	29 (60.552)	32 (66.816)
2/Scroll DC Inverter	2/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	3/Scroll DC Inverter	4/Scroll DC Inverter	4/Scroll DC Inverter	4/Scroll DC Inverter	4/Scroll DC Inverter
15.9 (5/8")	15.9 (5/8")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")	19.1 (3/4")
31.8 (1"1/4")	28.6 (1"1/8")	31.8 (1"1/4")	31.8 (1"1/4")	31.8 (1"1/4")	31.8 (1"1/4")	31.8 (1"1/4")	38.1 (1"1/2")	38.1 (1"1/2")	38.1 (1"1/2")	38.1 (1"1/2")
6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30	30	30	30
90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
1340x1635x790	2080x1635x790	2430x1635x790	2430x1635x790	2430x1635x790	2430x1635x790	2430x1635x790	2780x1635x790	2780x1635x790	2780x1635x790	2780x1635x790
340	474	516	524	559	559	577	610	637	645	680
66	65	68	68	68	68	67	69	69	69	69
88	85	89	89	89	89	89	91	91	91	91
16000	24000	26000	28000	28000	28000	28000	32000	30000	32000	32000
-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
36	39	43	46	50	53	56	59	63	64	64
50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130
HCSU 5005 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 3355 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 4505 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 5605 XRV-P HCSU 6155 XRV-P	HCSU 2805 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 3355 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P
58 (18+18+22)	60 (16+22+22)	62 (18+22+22)	64 (20+22+22)	66 (22+22+22)	68 (12+12+22+22)	70 (10+16+22+22)	72 (10+18+22+22)	74 (10+20+22+22)	76 (10+22+22+22)	78 (12+22+22+22)
161.5	168.0	173.0	179.0	184.5	190.0	196.0	201.0	207.0	212.5	218.0
161.5	168.0	173.0	179.0	184.5	190.0	199.5	204.5	210.5	216.5	222.0
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
49.26	53.32	54.39	56.15	59.52	57.50	60.81	61.88	63.64	67.01	68.43
41.18	44.05	44.86	46.36	48.54	50.18	50.94	51.75	53.25	55.43	57.45
3.28	3.15	3.18	3.19	3.10	3.30	3.22	3.25	3.25	3.17	3.19
3.92	3.81	3.86	3.86	3.80	3.95	3.92	3.95	3.95	3.90	3.86
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
42 (87.696)	45 (93.960)	45 (93.960)	48 (100.224)	48 (100.224)	54 (112.752)	54 (112.752)	54 (112.752)	57 (119.016)	57 (119.016)	59 (123.192)
6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	6/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter	7/Scroll DC Inverter
22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")
41.3 (1"5/8")	41.3 (1"5/8")	41.3 (1"5/8")	41.3 (1"5/8")	41.3 (1"5/8")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")
6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30	30	30	30
90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
4220x1635x790	4220x1635x790	4220x1635x790	4220x1635x790	4220x1635x790	4960x1635x790	5310x1635x790	5310x1635x790	5310x1635x790	5310x1635x790	5310x1635x790
950	977	985	1020	1020	1154	1196	1204	1239	1239	1257
71	71	71	71	71	70	71	71	71	71	71
93	93	93	93	93	92	93	93	93	93	93
48000	46000	48000	48000	48000	56000	58000	60000	60000	60000	60000
-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
64	64	64	64	64	64	64	64	64	64	64
50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(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° 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.
 (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 90m.
 (4) Space between the paired units = 100 mm.

XRV PREMIUM MODULAR

Heat pump - 2 pipes



Model / Combination			HCSU 5005 XRV-P HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 4505 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5005 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 5605 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P	HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P HCSU 6155 XRV-P
Power	HP		80 (18+18+22+22)	82 (16+22+22+22)	84 (18+22+22+22)	86 (20+22+22+22)	88 (22+22+22+22)
Rated cooling capacity (1)	kW		223.0	229.5	234.5	240.5	246.0
Rated heating capacity (2)	kW		223.0	229.5	234.5	240.5	246.0
Electrical data							
Power supply	Ph-V-Hz		3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Electric consumption in cooling mode (rated)	kW		69.10	73.16	74.23	75.99	79.36
Electric consumption in heating mode (rated)	kW		57.36	60.23	61.04	62.54	64.72
EER performance coefficient in cooling mode	W/W		3.23	3.14	3.16	3.16	3.10
COP performance coefficient in heating mode	W/W		3.89	3.81	3.84	3.85	3.80
Refrigerant circuit/features							
Refrigerant	type (GWP)		R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
	Kg (tons CO2)		58 (121.104)	61 (127.368)	61 (127.368)	64 (133.632)	64 (133.632)
DC Inverter compressor		no. / type	8/Scroll DC Inverter	8/Scroll DC Inverter	8/Scroll DC Inverter	8/Scroll DC Inverter	8/Scroll DC Inverter
Refrigerant connections (3)	Liquid	Ø mm (inch)	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")	25.4 (1")
	Gas	Ø mm (inch)	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")	44.5 (1"3/4")
	Parallel oil	Ø mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length	m		1000	1000	1000	1000	1000
Max height difference between indoor units	m		30	30	30	30	30
Max height difference between outdoor and indoor units	O.U. up-down	m	90 - 110	90 - 110	90 - 110	90 - 110	90 - 110
Product specifications							
Dimensions (4)	LxHxD	mm	5660x1635x790	5660x1635x790	5660x1635x790	5660x1635x790	5660x1635x790
Net weight	Kg		1290	1317	1325	1360	1360
Sound pressure level at 1 m	max	dB(A)	72	72	72	72	72
Sound power level	max	dB(A)	94	94	94	94	94
Fan air flow	max	m³/h	64000	62000	64000	64000	64000
Operating temp. range in cooling mode	°C / DB		-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C	-5°C / 43°C
Operating temp. range in heating mode	°C / WB		-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C	-20°C / 24°C
Connectable indoor units	no.		64	64	64	64	64
Capacity of connected indoor unit	%		50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(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° 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.

(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 90m.

(4) Space between the paired units = 100 mm.

PROJECT VRF R410A FULL DC INVERTER

XRV SMART MODULAR Heat pump - 2 pipes



FULL DC INVERTER

HCSU 2524 XRV-K
HCSU 2804 XRV-K

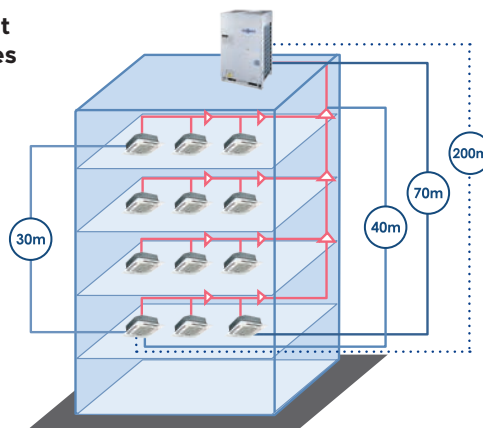
8 and 10HP units are equipped with a DC Inverter compressor.

All units are equipped with a DC Inverter fan motor:

- wider fan speed adjustment range
- reduced noise level

Silent operation, auto-addressing of indoor units.

Splitting lengths and height differences



Maximum distance between O.U. and the farthest I.U. = 200 m

Maximum distance from the first branch pipe to the farthest = 40 m (90 m*)

Maximum height difference between O.U. (up high) and I.U. = 70 m

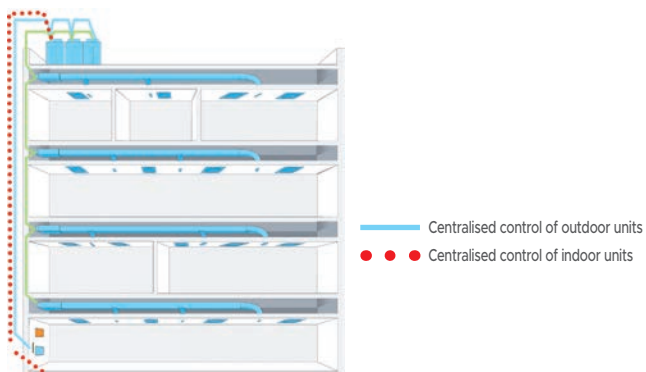
Maximum height difference between O.U. (down low) and I.U. = 110 m

Maximum height difference between I.U. = 30 m

Maximum length of the pipes = 1000 m

* Upon approval of the technical department.

Centralized control wiring diagram

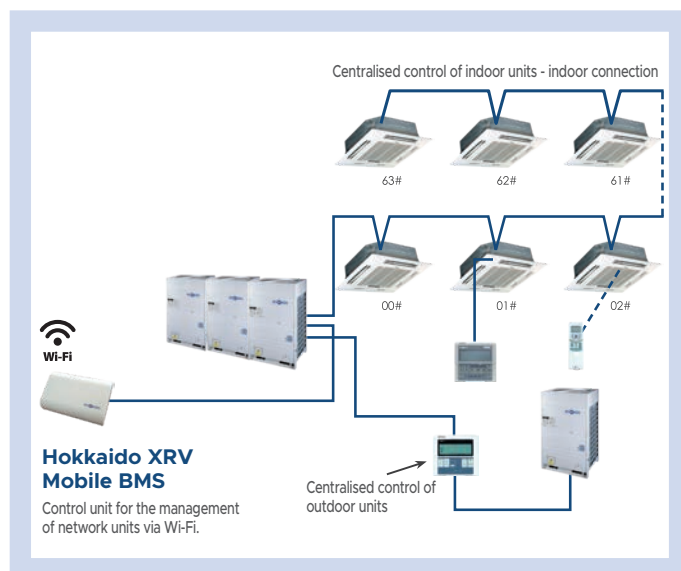


Outgoing air



Possibility to “hide” outdoor units from view thanks to the available pressure head, up to 20 Pa, which allows outlet air ducting.

Network wiring diagram



XRV SMART MODULAR

Heat pump - 2 pipes

Model / Combination			HCSU 2524 XRV-K	HCSU 2804 XRV-K	HCSU 2524 XRV-K HCSU 2524 XRV-K	HCSU 2524 XRV-K HCSU 2804 XRV-K	HCSU 2804 XRV-K HCSU 2804 XRV-K
Power	HP		8	10	16	18	20
Rated cooling capacity (1)	kW		25.2	28.0	50.4	53.2	56.0
Rated heating capacity (2)	kW		27.0	31.5	54.0	58.5	63.0
Electrical data							
Power supply	Ph-V-Hz		3-380~415V-50Hz				
Electric consumption in cooling mode (rated)	kW		5.87	7.19	11.74	13.06	14.39
Electric consumption in heating mode (rated)	kW		6.15	7.60	12.30	13.75	15.21
EER performance coefficient in cooling mode	W/W		4.29	3.89	4.29	4.07	3.89
COP performance coefficient in heating mode	W/W		4.39	4.14	4.39	4.25	4.14
Refrigerant circuit/features							
Refrigerant	type (GWP)		R410A (2088)				
	Kg (tons CO2)		9 (18.792)	9 (18.792)	18 (37.584)	18 (37.584)	18 (37.584)
DC Inverter compressor	no. / type		1/Scroll DC Inverter HITACHI			2/Scroll DC Inverter HITACHI	
Refrigerant connections (3)	Liquid	Ø mm (inch)	9.53 (3/8")	9.53 (3/8")	12.7 (1/2")	15.9 (5/8")	15.9 (5/8")
	Gas	Ø mm (inch)	22.2 (7/8")	22.2 (7/8")	28.6 (9/8")	28.6 (9/8")	28.6 (9/8")
	Parallel oil	Ø mm (inch)	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")	6.35 (1/4")
Max pipe length	m		1000	1000	1000	1000	1000
Max height difference between indoor units	m		30	30	30	30	30
Max height difference between outdoor and indoor units	O.U. up-down	m	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
Product specifications							
Dimensions (4)	LxHxD	mm	960x1615x765	960x1615x765	2020x1615x765	2020x1615x765	2020x1615x765
Net weight		Kg	200	200	400	400	400
Sound pressure level at 1 m	max	dB(A)	57	57	62	62	62
Sound pressure level at 2.5 m	max	dB(A)	49	49	54	54	54
Fan air flow	max	m³/h	11500	11500	23000	23000	23000
Operating temp. range in cooling mode		°C / DB	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Operating temp. range in heating mode		°C / WB	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
Connectable indoor units	no.		13	16	26	29	33
Capacity of connected indoor unit	%		50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(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° 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.

(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 90m.

(4) Space between the paired units = 100 mm.



PROJECT VRF R410A FULL DC INVERTER

XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes



FULL DC INVERTER

HCSRU 2524 XRV-1 Plus
HCSRU 2804 XRV-1 Plus
HCSRU 3354 XRV-1 Plus
HCSRU 4004 XRV-1 Plus
HCSRU 4504 XRV-1 Plus

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

All outdoor unit compressors are Full DC Inverter type for a high level of efficiency.

Possibility of connecting up to 24 indoor units with only one flow divider.

The indoor units can operate in different modes even if they are connected to the same flow divider.

Wide range in operating conditions: from -20°C WB in heating mode up to $+43^{\circ}\text{C}$ DB in cooling mode with no stop.

High splitting distance: max distance between I.U. up to 200 m, total length up to 1000 m.

High energy efficiency

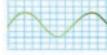
Fan and grille.



Integrated electric circuit.



Control of DC Inverter wave at 180° (IPM).



DC Inverter fan, low noise level, low consumption, high efficiency.



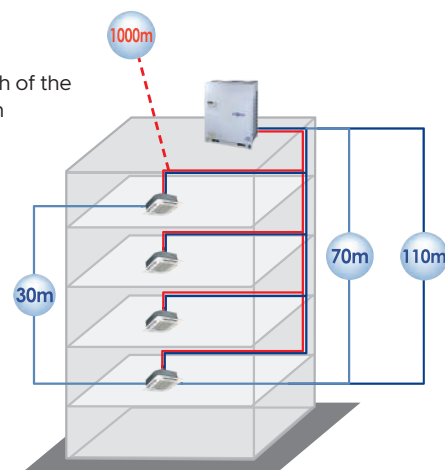
Highly efficient heat exchanger.

High pressure DC Inverter Scroll compressor contributes to very high efficiency.



Splitting lengths and height differences

Maximum length of the pipes = 1000 m



Max distance between O.U. and the farthest I.U. = 200 m

Max distance from the divider to the farthest I.U. = 40 m

Max distance from the first branch pipe to the farthest I.U. = 90 m

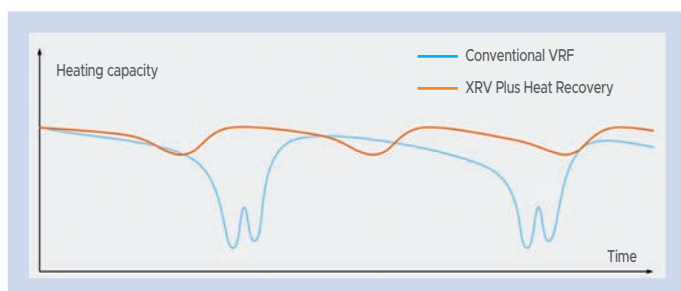
Max height difference between O.U. (up high) and I.U. = 70 m

Max height difference between O.U. (down) and the I.U. = 110 m

Max height difference between I.U. = 30 m

Maximum length of the pipes = 1000 m

Curve of heating capacity during defrost



Heating during defrost

XRV Plus heat recovery remarkably reduces defrost time thanks to the particular structure of the heat exchanger, therefore with non-stop operation.

PROJECT VRF R410A FULL DC INVERTER

XRV PLUS HEAT RECOVERY

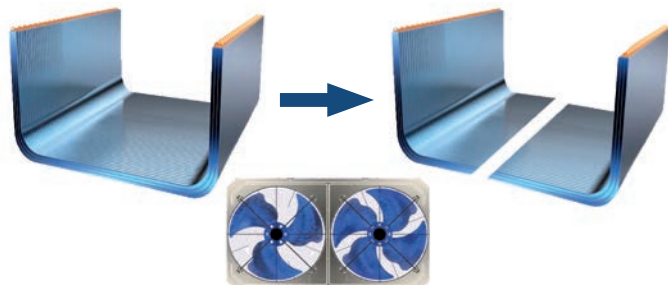
Heat recovery - 3 pipes

Fan and exchanger

Outdoor unit heat exchangers are divided in two parts, a left and right structure, so that there are two independent circuits in one outdoor unit. Each outdoor unit has two fans, which allow control over each heat exchanger structure individually.

2-pipe system

3-pipe system



Pressure head up to 20 Pa

The available pressure head up to 20 Pa allows users to "hide" the outdoor units from view and to duct the outlet air.



Branch pipe kit

Branch pipe downstreams of the first indoor unit

Code	A - Capacity of the connectible indoor units (kW)
DIS-22-1RB	$A < 16.6$
DIS-180-1RB	$16.6 \leq A < 33.0$
DIS-371-1RB	$33.0 \leq A < 66.0$
DIS-540-1RH Plus	$66.0 \leq A < 92.0$
DIS-1344-1RH Plus	$92.0 \leq A < 135.0$

Branch pipe kit for outdoor connection

Code	Outdoor units
DOS 2-1RH Plus	2 Outdoor unit KITS
DOS 3-1RH Plus	3 Outdoor unit KITS
DOS 4-1RH Plus	4 Outdoor unit KITS
OH-BAL-KT*	T-shaped fitting for oil parallel pipe

* Included in DOS 3-1H Plus & DOS 4-1H Plus KITS.

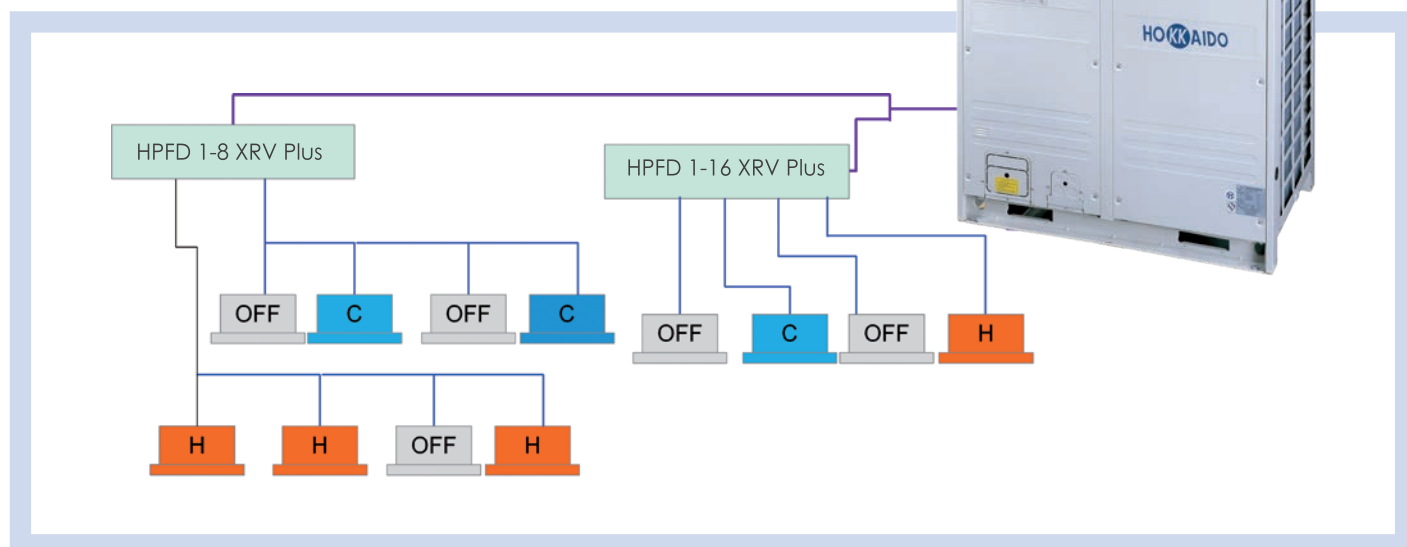
Indoor unit connection system

Indoor units are connected to flow dividers.

Up to 4 indoor units (max 16 kW) can be connected to each output.

The units connected to each output can operate in different modes from those connected to another output.

All indoor units connected to one output can only operate in the same mode.



XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

Model / Combination			HCSRU 2524 XRV-1 Plus	HCSRU 2804 XRV-1 Plus	HCSRU 3354 XRV-1 Plus	HCSRU 4004 XRV-1 Plus	HCSRU 4504 XRV-1 Plus
Power		HP	8	10	12	14	16
Rated cooling capacity (1)		kW	25.2	28.0	33.5	40.0	45.0
Rated heating capacity (2)		kW	27.0	31.5	37.5	40.0	45.0
Electrical data							
Electric consumption in cooling mode (rated)		Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
EER consumption in heating mode (rated)		kW	6.67	7.24	9.28	11.49	14.20
EER performance coefficient in cooling mode		kW	5.28	6.54	9.24	9.76	11.90
COP performance coefficient in heating mode		W/W	3.78	3.87	3.61	3.48	3.17
COP coeff. di prestazione in riscaldamento		W/W	5.11	4.82	4.06	4.10	3.78
Refrigerant circuit/features							
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	10 (20.880)	10 (20.880)	10 (20.880)	13 (27.144)	13 (27.144)
DC Inverter compressor		no. / type	1 / Scroll DC Inverter HITACHI			2 / Scroll DC Inverter HITACHI	
Refrigerant connections (3)	Liquid	Ø mm (inch)	9.53 (3/8)	12.7 (1/2)		15.9 (5/8)	
	Low pressure gas	Ø mm (inch)	22.2 (7/8)		25.4 (1)		28.6 (9/8)
	High pressure gas	Ø mm (inch)	19.1 (3/4)		22.2 (7/8)		
	H.p. parallel gas	Ø mm (inch)	19.1 (3/4)		19.1 (3/4)		
	Parallel oil	Ø mm (inch)	6.35 (1/4)		6.35 (1/4)		
Max pipe length		m	1000	1000	1000	1000	1000
Max height difference between indoor units		m	30	30	30	30	30
Max height difference between outdoor and indoor units		O.U. up-down	m	70 - 110	70 - 110	70 - 110	70 - 110
Product specifications							
Dimensions (4)	LxHxD	mm	1250x1615x765			1250x1615x765	
Net weight		Kg	255			303	
Sound pressure level at 1 m	min-max	dB(A)	55/57		56/58	58/60	
Sound power level	max	dB(A)	79	83	84	88	
Fan air flow	min-max	m³/h	10675 / 12000			12875 / 15000	
Operating temp. range in cooling mode		°C / DB	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Operating temp. range in heating mode		°C / WB	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
Connectable indoor units		no.	13	16	20	23	26
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

Model / Combination		HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus
Power	HP	34 (10+10+14)	36 (10+10+16)	38 (10+12+16)	40 (10+14+16)	42 (14+14+14)	44 (14+14+16)
Rated cooling capacity (1)	kW	96.0	101.0	106.5	113.0	120.0	125.0
Rated heating capacity (2)	kW	103.0	108.0	114.0	116.5	120.0	125.0
Electrical data							
Electric consumption in cooling mode (rated)	Ph-V-Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
Electric consumption in heating mode (rated)	kW	25.97	28.68	30.72	32.93	34.47	37.18
EER performance coefficient in cooling mode	kW	22.84	24.98	27.68	28.2	29.28	31.42
COP performance coefficient in heating mode	W/W	3.70	3.52	3.47	3.43	3.48	3.36
COP coeff. di prestazione in riscaldamento	W/W	4.51	4.32	4.12	4.13	4.10	3.98
Refrigerant circuit/features							
Refrigerant		type (GWP)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
		Kg (tons CO2)	33 (68.904)	33 (68.904)	33 (68.904)	36 (75.168)	39 (81.432)
DC Inverter compressor		no. / type	4 / Scroll DC Inverter HITACHI			5 / Scroll DC Inv. HITACHI	6 / Scroll DC Inverter HITACHI
Refrigerant connections (3)	Liquid	Ø mm (inch)	19.1 (3/4)			19.1 (3/4)	
	Low pressure gas	Ø mm (inch)	41.3 (1 5/8)			41.3 (1 5/8)	
	High pressure gas	Ø mm (inch)	34.9 (1 3/8)			34.9 (1 3/8)	
	H.p. parallel gas	Ø mm (inch)	19.1 (3/4)			19.1 (3/4)	
	Parallel oil	Ø mm (inch)	6.35 (1/4)			6.35 (1/4)	
Max pipe length		m	1000	1000	1000	1000	1000
Max height difference between indoor units		m	30	30	30	30	30
Max height difference between outdoor and indoor units		O.U. up-down	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
Product specifications							
Dimensions (4)		LxHxD	mm 3950x1615x765			3950x1615x765	3950x1615x765
Net weight		Kg	813			861	909
Sound pressure level at 1 m		min-max	dB(A) 55/65			55/66	56/67
Sound power level		max	dB(A) 90			90	90
Fan air flow		min-max	m³/h 10675 / 39000		10675 / 40000	10675 / 42000	12875 / 45000
Operating temp. range in cooling mode		°C / DB	-5 / 43	-5 / 43	-5 / 43	-5 / 43	-5 / 43
Operating temp. range in heating mode		°C / WB	-20 / 24	-20 / 24	-20 / 24	-20 / 24	-20 / 24
Connectable indoor units		no.	56	59	63	64	64
Capacity of connected indoor unit		%	50 - 130	50 - 130	50 - 130	50 - 130	50 - 130

(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° 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.
(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 90m.
(4) Space between the paired units = 100 mm.

PROJECT VRF R410A FULL DC INVERTER

XRV PLUS HEAT RECOVERY

Heat recovery - 3 pipes

HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
18 (8+10)	20 (10+10)	22 (10+12)	24 (10+14)	26 (10+16)	28 (14+14)	30 (14+16)	32 (16+16)
53.2	56.0	61.5	68.0	73.0	80.0	85.0	90.0
58.5	63.0	69.0	71.5	76.5	80.0	85.0	90.0
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
13.91	14.48	16.52	18.73	21.44	22.98	25.69	28.40
11.82	13.08	15.78	16.3	18.44	19.52	21.66	23.8
3.82	3.87	3.72	3.63	3.40	3.48	3.31	3.17
4.95	4.82	4.37	4.39	4.15	4.10	3.92	3.78
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
20 (41.760)	20 (41.760)	20 (41.760)	23 (48.024)	23 (48.024)	26 (54.288)	26 (54.288)	26 (54.288)
2 / Scroll DC Inverter HITACHI			3 / Scroll DC Inverter HITACHI			4 / Scroll DC Inverter HITACHI	
15.9 (5/8)			15.9 (5/8)			19.1 (3/4)	
31.8 (1 1/4)			34.9 (1 3/8)			34.9 (1 3/8)	
28.6 (9/8)			28.6 (9/8)			28.6 (9/8)	
19.1 (3/4)			19.1 (3/4)			19.1 (3/4)	
6.35 (1/4)			6.35 (1/4)			6.35 (1/4)	
1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30
70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
2600x1615x765			2600x1615x765			2600x1615x765	
510			558			606	
55/61			55/63			56/64	
88			88			89	
10675 / 24000			10675 / 27000			12875 / 30000	
-5 / 43			-5 / 43			-5 / 43	
-20 / 24			-20 / 24			-20 / 24	
29			39			46	
50 - 130			50 - 130			50 - 130	

HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 2524 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 2804 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 3354 XRV-1 Plus	HCSRU 2804 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4004 XRV-1 Plus	HCSRU 4004 XRV-1 Plus HCSRU 4504 XRV-1 Plus	HCSRU 4504 XRV-1 Plus HCSRU 4504 XRV-1 Plus
46 (14+16+16)	48 (16+16+16)	50 (8+10+16+16)	52 (10+10+16+16)	54 (10+12+16+16)	56 (10+14+16+16)	58 (14+14+14+16)	60 (14+14+16+16)	62 (14+16+16+16)	64 (16+16+16+16)
130.0	135.0	143.2	146.0	151.5	158.0	165.0	170.0	175.0	180.0
130.0	135.0	148.5	153.0	159.0	161.5	165.0	170.0	175.0	180.0
3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz	3-380~415V-50Hz
39.89	42.6	42.31	42.88	44.92	47.13	48.67	51.38	54.09	56.8
33.56	35.7	35.62	36.88	39.58	40.1	41.18	43.32	45.46	47.6
3.26	3.17	3.38	3.40	3.37	3.35	3.39	3.31	3.24	3.17
3.87	3.78	4.17	4.15	4.02	4.03	4.01	3.92	3.85	3.78
R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)	R410A (2088)
39 (81.432)	39 (81.432)	46 (96.048)	46 (96.048)	46 (96.048)	49 (102.312)	52 (108.576)	52 (108.576)	52 (108.576)	52 (108.576)
6 / Scroll DC Inverter HITACHI		6 / Scroll DC Inverter HITACHI			7 / Scroll DC Inv. HITACHI	8 / Scroll DC Inv. HITACHI		8 / Scroll DC Inv. HITACHI	
19.1 (3/4)		22.2 (7/8)				22.2 (7/8)		22.2 (7/8)	
41.3 (1 5/8)		44.5 (1 3/4)				44.5 (1 3/4)		44.5 (1 3/4)	
34.9 (1 3/8)		38.1 (1 1/2)				38.1 (1 1/2)		38.1 (1 1/2)	
19.1 (3/4)		19.1 (3/4)				19.1 (3/4)		19.1 (3/4)	
6.35 (1/4)		6.35 (1/4)				6.35 (1/4)		6.35 (1/4)	
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
30	30	30	30	30	30	30	30	30	30
70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110	70 - 110
3950x1615x765		5300x1615x765			5300x1615x765	5300x1615x765		5300x1615x765	
909		1116			1164	1212		1212	
		56/68			56/68			55/69	
		91			91			91	
		10675 / 54000			10675 / 55000	10675 / 57000		12875 / 60000	
-5 / 43		-5 / 43			-5 / 43	-5 / 43		-5 / 43	
-20 / 24		-20 / 24			-20 / 24	-20 / 24		-20 / 24	
64		64			64	64		64	
50 - 130		50 - 130			50 - 130	50 - 130		50 - 130	

(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.

(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 90m.

(4) Space between the paired units = 100 mm.

PROJECT VRF R410A FULL DC INVERTER

XRV PLUS MINI Heat pump



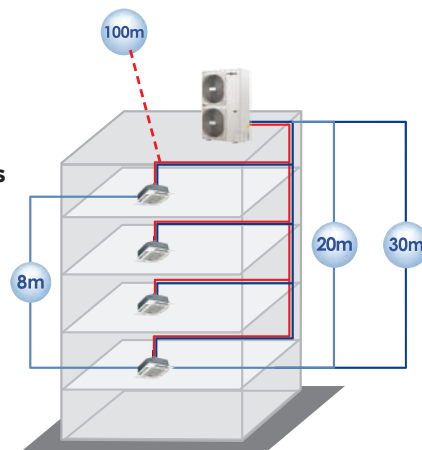
FULL DC INVERTER
HCNU 1054 XRV-1 Plus



FULL DC INVERTER
HCSU 1404 XRV-1 Plus
HCSU 1604 XRV-1 Plus
HCSU 1804 XRV-1 Plus

Splitting lengths and height differences

Maximum length
of the pipes =
100 m



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

Slim, flexible design.

DC Inverter motor fan:

- wider fan speed adjustment range
- reduced noise level

Optimal design of the fan and fan-shaped louvre, that ensure low noise level at high air flow.

Broad operating range

- cooling -15° C ~ +43° C;
- heating -15° C ~ +27° C;

Auto-addressing of indoor units.

Maximum distance between O.U. and the farthest I.U. = 70 m
(50 m for HCNU 1054 XRV-1 Plus)

Maximum distance from the first branch pipe to the farthest = 20 m

Maximum height difference between O.U. (up high) and I.U. = 30 m

Maximum height difference between O.U. (down low) and I.U. = 20 m

Maximum height difference between I.U. = 8 m

Maximum length of the pipes = 100 m

Model			HCNU 1054 XRV-1 Plus		HCSU 1404 XRV-1 Plus		HCSU 1604 XRV-1 Plus		HCSU 1804 XRV-1 Plus	
Power		HP	3.75		5		6		6.5	
Rated cooling capacity (1)		kW	9		14		15.5		17.5	
Rated heating capacity (2)		kW	9		15.4		17		19	
Electrical data										
Power supply		Ph-V-Hz	1-220~240V-50Hz				3-380~415V-50Hz			
Electric consumption in cooling mode (rated)		kW / A	2.30 / 10.4		3.95 / 9.3		4.52 / 10.7		5.30 / 12.5	
Electric consumption in heating mode (rated)		kW / A	2.27 / 10.3		4.15 / 9.8		4.77 / 11.3		5.00 / 11.8	
EER performance coefficient in cooling mode		W/W	3.91		3.54		3.43		3.3	
COP performance coefficient in heating mode		W/W	3.97		3.71		3.56		3.8	
Refrigerant circuit/features										
Refrigerant		type (GWP)	R410A (2088)							
		Kg (tons CO2)	2.95 (6.160)		3.9 (8.143)		4.5 (9.396)			
DC Inverter compressor		no. / type	Rotary DC inverter MITSUBISHI							
Refrigerant connections		Liquid	Ø mm (inch)		9.53 (3/8")		9.53 (3/8")			
		Gas	Ø mm (inch)		15.9 (5/8")		19.1 (3/4")			
Max pipe length		m			100					
Max height difference between indoor units		m			8					
Max height difference between outdoor and indoor units		O.U. up-down	m		30 - 20					
Product specifications										
Dimensions		LxHxD	mm	990(+85)x966x354		900x1327x348				
Net weight			Kg	75.5		95		102		107
Sound pressure level at 1 m		max	dB(A)	54		57				59
Sound power level		max	dB(A)	68		73		73		74
Fan air flow		max	m³/h	5500		6000				6800
Operating temp. range in cooling mode		°C / DB				-15 / 43				
Operating temp. range in heating mode		°C / WB				-15 / 27				
Connectable indoor units		no.		5		6		7		9
Capacity of connected indoor unit		%				45 - 130				

(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.

PROJECT VRF R410A FULL DC INVERTER

XRV PLUS MINI Heat pump

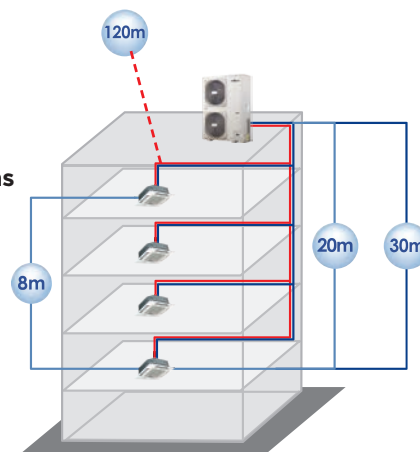


FULL DC INVERTER

HCYU 2004 XRV-1 Plus
HCYU 2244 XRV-1 Plus
HCYU 2604 XRV-1 Plus

Splitting lengths and height differences

Maximum length
of the pipes =
120 m



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

DC Inverter motor fan:

- wider fan speed adjustment range
- reduced noise level

Up to 12 indoor units connected to one compact outdoor unit.

Auto-addressing of indoor units.

Self-diagnosis function for main system problems.

Maximum distance between O.U. and the farthest I.U. = 70 m

Maximum distance from the first branch pipe to the farthest = 20 m

Maximum height difference between O.U. (up high) and I.U. = 30 m

Maximum height difference between O.U. (down low) and I.U. = 20 m

Maximum height difference between I.U. = 8 m

Maximum length of the pipes = 120 m

Model			HCYU 2004 XRV-1 Plus	HCYU 2244 XRV-1 Plus	HCYU 2604 XRV-1 Plus
Power		HP	7	8	9
Rated cooling capacity (1)		kW	20.0	22.4	26.0
Rated heating capacity (2)		kW	22.0	24.5	28.5
Electrical data					
Power supply		Ph-V-Hz	3-380~415V-50Hz		
Electric consumption in cooling mode (rated)		kW / A	6.10 / 14.4	6.80 / 16.1	7.60 / 18.0
Electric consumption in heating mode (rated)		kW / A	6.10 / 14.4	5.90 / 14.0	6.80 / 16.1
EER performance coefficient in cooling mode		W/W	3.28	3.29	3.42
COP performance coefficient in heating mode		W/W	3.61	4.15	4.19
Refrigerant circuit/features					
Refrigerant		type (GWP)	R410A (2088)		
		Kg (tons CO2)	4.8 (10.022)	6.2 (12.946)	
DC Inverter compressor		no. / type	Rotary DC inverter MITSUBISHI		
Refrigerant connections	Liquid	Ø mm (inch)	9.52 (3/8)		
	Gas	Ø mm (inch)	19.1 (3/4)	22.2 (7/8)	
Max pipe length		m	120		
Max height difference between indoor units		m	8		
Max height difference between outdoor and indoor units		O.U. up-down	30 - 20		
Product specifications					
Dimensions	LxHxD	mm	1120x1558x400		
Net weight		Kg	137	146.5	147
Sound pressure level at 1 m	max	dB(A)	55/59	56/60	
Sound power level	max	dB(A)	76	77	
Fan air flow	max	m³/h	10999	10494	10494
Operating temp. range in cooling mode		°C / DB	-15 / 46		
Operating temp. range in heating mode		°C / WB	-15 / 24		
Connectable indoor units		no.	10	11	12
Capacity of connected indoor unit		%	50 - 130		

(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.

PROJECT VRF R410A FULL DC INVERTER

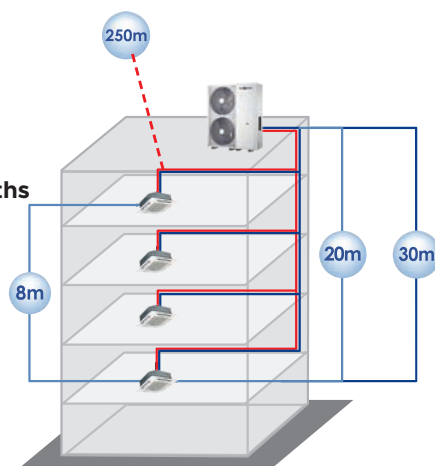
XRV PLUS MINI Heat pump



FULL DC INVERTER
HCYU 4004 XRV-1 Plus
HCYU 4504 XRV-1 Plus

Splitting lengths and height differences

Maximum length
of the pipes =
250 m



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

DC Inverter motor fan:

- wider fan speed adjustment range
- reduced noise level

Up to 15 indoor units connected to one compact outdoor unit.

Auto-addressing of indoor units.

Self-diagnosis function for main system problems.

Maximum distance between O.U. and the farthest I.U. = 120 m

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

Maximum height difference between O.U. (up high) and I.U. = 30 m

Maximum height difference between O.U. (down low) and I.U. = 20 m

Maximum height difference between I.U. = 8 m

Maximum length of the pipes = 250 m

Model			HCYU 4004 XRV-1 Plus	HCYU 4504 XRV-1 Plus
Power		HP	14	16
Rated cooling capacity (1)		kW	40.0	45.0
Rated heating capacity (2)		kW	45.0	50.0
Electrical data				
Power supply		Ph-V-Hz	3-380~415V-50Hz	
Electric consumption in cooling mode (rated)		kW / A	11.9 / 12x2	13.6 / 15.4x2
Electric consumption in heating mode (rated)		kW / A	11.1 / 12x2	12.7 / 15.4x2
EER performance coefficient in cooling mode		W/W	3.35	3.32
COP performance coefficient in heating mode		W/W	4.05	3.93
Refrigerant circuit/features				
Refrigerant		type (GWP)	R410A (2088)	
		Kg (tons CO2)	9 (18.792)	12 (25.056)
DC Inverter compressor		no. / type	2/ Rotary DC inverter MITSUBISHI	
Refrigerant connections	Liquid	Ø mm (inch)	12.7 (1/2)	
	Gas	Ø mm (inch)	22.2 (7/8)	25.4 (1)
Max pipe length		m	250	
Max height difference between indoor units		m	8	
Max height difference between outdoor and indoor units		O.U. up-down	30 - 20	
Product specifications				
Dimensions	LxHxD	mm	1360x1650x540	1460x1650x540
Net weight		Kg	240	275
Sound pressure level at 1 m	max	dB(A)	55/62	
Sound power level	max	dB(A)	82	
Fan air flow	max	m³/h	16575	16575
Operating temp. range in cooling mode		°C / DB	-5 / 43	
Operating temp. range in heating mode		°C / WB	-15 / 24	
Connectable indoor units		no.	14	15
Capacity of connected indoor unit		%	50 - 130	

(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.

PREMIUM - SERIE P 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	25.00	28.00
Cassette units	compact 60x60	 HTFU XRV-P	•	•	•	•										
	84x84	 HTBU XRV-P					•	•	•	•		•				
Ducted	medium pressure head	 HUCU XRV-P	•	•	•	•	•	•	•	•		•				
	high pressure head	 HVDU XRV-P						•	•	•		•	•	•		•
	all-outside air	 HVDU-F XRV-P									•	•				
Floor	wall	 HKEU XRV-P	•	•	•	•	•	•	•							
	floor / ceiling	 HSFU XRV-P					•	•	•	•		•				
	recessed	 HFIU XRV-P	•	•	•	•										
	console	 HFCU XRV-P		•	•		•									

PROJECT VRF R410A FULL DC INVERTER

HTFU XRV-P Compact cassette 60x60



The control must be purchased as an accessory



Main features

4 power levels: 2.20~4.50 kW.

Ultra-compact design.

Extremely quiet: only 22 dB(A) (2.20~2.80 kW).

360° air diffusion.

Condensate drain pump with possibility of raising the discharge up to 500 mm from the lower part of the unit.

Model			HTFU 225 XRV-P	HTFU 285 XRV-P	HTFU 365 XRV-P	HTFU 455 XRV-P
Rated cooling capacity		kW	2.2	2.8	3.6	4.5
Rated heating capacity		kW	2.4	3.2	4	5
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Electrical absorption		W	35	35	40	50
Product specifications						
Air flow (1)	Max~Min	m³/h	576~405			604~400
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	35~22			41~28
Sound power level (1)	Max~Min	dB(A)	51~38			56~43
External dimensions	LxHxD	mm	630x260x570			
	Net weight	Kg	18			19.2
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			
Condensate drain		Ø mm	32			
Serial control		type	none			
Accessories						
Decorative panel			TFP 155 XRV-P			
Panel dimensions	LxHxD	mm	647x50x647			
	Net weight	Kg	2.5			
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-K-P			
Optional parts						
Centralised control			See compatibility table on p. 69			

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

HTBU XRV-P Cassette 84x84



The control must be purchased as an accessory



Main features

5 power levels: 5.60~14.00 kW.

Low resistance and low noise fan profile.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Internal electronic control.

Pre-set for the connection of a channel for the intake of external air.

Model			HTBU 565 XRV-P	HTBU 715 XRV-P	HTBU 905 XRV-P	HTBU 1125 XRV-P	HTBU 1405 XRV-P
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	16
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	31	46	75		94
Product specifications							
Air flow (1)	Max~Min	m³/h	1029~704	1200~748	1596~1034		1727~1224
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	43~34	45~34	47~36		50~38
Sound power level (1)	Max~Min	dB(A)	56~47	58~47	61~50		64~52
External dimensions	LxHxD	mm	840x230x840			840x300x840	
	Net weight	Kg	23.2			28.4	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	32				
Serial control		type	none				
Accessories							
Decorative panel			TBP 712 IHXR				
Panel dimensions	LxHxD	mm	950x70x950				
	Net weight	Kg	5.8				
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

HUCU XRV-P Medium head ducted



The control must be purchased as an accessory



Main features

9 power levels: 2.20~14.00 kW.

Ultra-compact design: only 210 mm in height (2.20~7.10 kW); thanks to its small size it is ideal for use in hotels.

Available pressure head: 50 Pa (2.20~7.10 kW); 100 Pa (9.00~11.20 kW); 150 Pa (14.00 kW).

Air intake from bottom or rear.

Electrical box inside the unit body.

Condensate drain pump with possibility of raising the discharge up to 750 mm from the lower part of the unit.

Model		HUCU 225 XRV-P	HUCU 285 XRV-P	HUCU 365 XRV-P	HUCU 455 XRV-P	
Rated cooling capacity	kW	2.2	2.8	3.6	4.5	
Rated heating capacity	kW	2.6	3.2	4	5	
Electrical data						
Power supply	Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption	W	40	40	45	92	
Product specifications						
Air flow (1)	Max~Min	m³/h	520~300		580~370	800~400
Fan pressure head	Std/Max	Pa	10/50			
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	32~23		33~25	36~25
Sound power level (1)	Max~Min	dB(A)	50~41		51~43	54~43
External dimensions	LxHxD	mm	780x210x500			1000x210x500
	Net weight	Kg	18			21.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			
Condensate drain		Ø mm	25			
Serial control		type	none			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-K-P			
Optional parts						
Centralised control			See compatibility table on p. 69			

(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	HUCU 1405 XRV-P
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	15.5
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	92	98	120	200	250
Product specifications							
Air flow (1)	Max~Min	m3/h	830~560	1000~680	1260~780	1500~1080	1960~1360
Fan pressure head	Std/Max	Pa	10/50		20/100		40/150
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	36~28	37~28	37~28	39~33	41~33
Sound power level (1)	Max~Min	dB(A)	54~46	55~46	55~46	57~51	59~51
External dimensions	LxHxD	mm	1000x210x500	1220x210x500	1230x270x775		1290x300x865
	Net weight	Kg	21.5	27.5	37		46.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	25				
Serial control		type	none				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

Main features

HVDU XRV-P

Ducted with high head



The control must be purchased as an accessory



7 power levels: 7.10~28.00 kW.

Available pressure head: 200 Pa (7.10~16.00 kW); 250 Pa (20.00~28.00 kW).

Compact size: 423 mm in height (7.10~16.00 kW).

Rear air intake.

Ease of maintenance.

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 cooling capacity		kW	7.1	9	11.2	14	16	20	28
Rated heating capacity		kW	8	10	12.5	16	17	22.5	31.5
Electrical data									
Power supply		Ph-V-Hz	1-220~240V-50Hz						
Electrical absorption		W	180	220	380	420	700	990	1200
Product specifications									
Air flow (1)	Max~Min	m³/h	1360~1160	1420~1140	1870~1350	2240~1600	2660~1880	4330~3730	
Fan pressure head	Std/Max	Pa	100/200					170/250	
Sound pressure level at 1.4 m (1)	Max~Min	dB(A)	46~42	50~45	50~45	53~48	54~50	57~50	
Sound power level (1)	Max~Min	dB(A)	64~60	68~63	68~63	71~66	72~68	75~68	
External dimensions	LxHxD	mm	965x423x690			1322x423x691		1454x515x931	
	Net weight	Kg	41	51	51	68	68	130	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")					12.7 (1/2") - 22.2 (7/8")	
Condensate drain		Ø mm	25					32	
Serial control		type	none						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-K-P						
Optional parts									
Centralised control			See compatibility table on p. 69						

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

Main features

HVDU-F XRV-P

All-outside air ducted



The control must be purchased as an accessory



These air processing units can be connected together with the indoor units to the same refrigerant system, thus increasing the design flexibility and creating a remarkable reduction in operating costs.

2 power levels: 12.50~14.00 kW.

Ultra-compact design: only 423 mm in height.

Max pressure head of fans: 200 Pa.

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

Model		HVDU-F 1255 XRV-P		HVDU-F 1405 XRV-P			
Rated cooling capacity (1)		kW		12.5		14	
Rated heating capacity (2)		kW		10.5		12	
Electrical data							
Power supply		Ph-V-Hz		1-220~240V-50Hz			
Electrical absorption		W		480			
Product specifications							
Air flow (3)		Max~Min		m³/h		2000~1500	
Fan pressure head		Std/Max		Pa		180/200	
Sound pressure level at 1.4 m (3)		Max~Min		dB(A)		48~42	
Sound power level (3)		Max~Min		dB(A)		66~60	
External dimensions		LxHxD		mm		1322x423x691	
		Net weight		Kg		68	
Refrigerant connections		Liquid/Gas		Ø mm (inch)		9.52 (3/8") - 15.9 (5/8")	
Condensate drain				Ø mm		25	
Operating field (100% outdoor air)		Cooling		°C		-5 / 16	
		Heating				20 / 43	
Serial control				type		none	
Accessories							
Remote control				DHIR-5-6-XRV-K-P			
Wired remote control				DHW-5-6-XRV-K-P			
Optional parts							
Centralised control				See compatibility table on p. 69			

(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

Main features

HKEU XRV-P Wall



The control must be purchased as an accessory



7 power levels: 2.20~9.00 kW.
New design.
Very compact design: 203 mm deep (2.20 kW).
Extremely quiet: only 29 dB(A) (2.20~2.80 kW).
Standard washable filter.

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
Rated cooling capacity		kW	2.2	2.8	3.6	4.5	5.6	7.1	9
Rated heating capacity		kW	2.4	3.2	4	5	6.3	8	10
Electrical data									
Power supply		Ph-V-Hz	1-220~240V-50Hz						
Electrical absorption		W	28		30	40	45	55	82
Product specifications									
Air flow (1)	Max~Min	m³/h	422~356	417~316	656~488	594~424	747~547	1195~809	1421~867
Sound pressure level at 1 m (1)	Max~Min	dB(A)	31~29	31~29	33~30	35~31	38~34	44~36	48~38
Sound power level (1)	Max~Min	dB(A)	46~44	46~44	48~45	50~46	53~49	59~51	63~53
Dimensions	LxHxD	mm	835x280x203			990x315x223		1194x343x262	
	Net weight	Kg	8.4	9.5	11.4	12.8		17	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				9.52 (3/8") - 15.9 (5/8")		
Condensate drain		Ø mm	16						
Serial control		type	none						
Accessories									
Remote control			DHIR-5-6-XRV-K-P						
Wired remote control			DHW-5-6-XRV-K-P						
Optional parts									
Centralised control			See compatibility table on p. 69						

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

Main features

HSFU XRV-P Floor/ceiling



The control must be purchased as an accessory



5 power levels: 5.60~14.00 kW.
Auto Swing function that optimizes the distribution of air flow in the environment.
Built-in electronic expansion valve.
Easy installation with unit attached to the wall or ceiling.

Model			HSFU 565 XRV-P	HSFU 715 XRV-P	HSFU 905 XRV-P	HSFU 1125 XRV-P	HSFU 1405 XRV-P
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	15
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	115	115	130	180	180
Product specifications							
Air flow (1)	Max~Min	m³/h	930~720		1280~1050	1890~1580	
Sound pressure level at 1 m (1)	Max~Min	dB(A)	43~38		45~40	47~42	
Sound power level (1)	Max~Min	dB(A)	56~51		58~53	60~55	
Dimensions	LxHxD	mm	990x660x203		1280x660x203	1670x680x244	
	Net weight	Kg	28		35	48	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	16				
Serial control		type	none				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

HFIU XRV-P Console



The control must be purchased as an accessory



Main features

4 power levels: 2.20~4.50 kW.
Ultra-compact design: only 210 mm deep.
Dual capacity to control air output floor: upper and lower.
7 fan speeds.
Front and side air intake.
Anti-formaldehyde filter to eliminate the harmful effects of the gases released in the environments.

Model			HFIU 225 XRV-P	HFIU 285 XRV-P	HFIU 365 XRV-P	HFIU 455 XRV-P
Rated cooling capacity		kW	2.2	2.8	3.6	4.5
Rated heating capacity		kW	2.6	3.2	4	5
Electrical data						
Power supply		Ph-V-Hz	1-220~240V-50Hz			
Electrical absorption		W	20	25	25	35
Product specifications						
Air flow (1)	Max~Min	m³/h	430~229	510~229	510~229	660~400
Sound pressure level at 1 m (1)	Max~Min	dB(A)	38~26	39~27	39~27	42~36
Sound power level (1)	Max~Min	dB(A)	54~42	55~43		58~52
Dimensions	LxHxD	mm	700x600x210			
	Net weight	Kg	14	15		
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			
Condensate drain		Ø mm	16			
Serial control		type	none			
Accessories						
Remote control			DHIR-5-6-XRV-K-P			
Wired remote control			DHW-5-6-XRV-K-P			
Optional parts						
Centralised control			See compatibility table on p. 69			

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

HFCU XRV-P Flush floor



The control must be purchased as an accessory



Main features

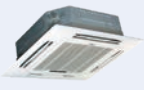
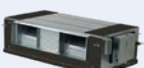
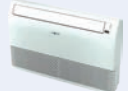
3 power levels: 2.80~5.60 kW.
Extremely quiet: only 29 dB(A) (2.80 kW).
Lower air intake.
Built-in expansion valve and electronic control.

Model		HFCU 285 XRV-P		HFCU 365 XRV-P		HFCU 565 XRV-P	
Rated cooling capacity	kW	2.8		3.6		5.6	
Rated heating capacity	kW	3.2		4		6.3	
Electrical data							
Power supply	Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption	W	45		55		88	
Product specifications							
Air flow (1)	Max~Min	m³/h	569~421		624~375		1150~830
Fan pressure head	Std/Max	Pa	10/10				
Sound pressure level at 1 m (1)	Max~Min	dB(A)	36~29		37~30		41~31
Sound power level (1)	Max~Min	dB(A)	54~47		55~48		59~49
Dimensions	LxHxD	mm	840x545x212		1040x545x212		1340x545x212
	Net weight	Kg	21		25.5		30.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				9.52 (3/8") - 15.9 (5/8")
Condensate drain		Ø mm	16				
Serial control		type	none				
Accessories							
Remote control			DHIR-5-6-XRV-K-P				
Wired remote control			DHW-5-6-XRV-K-P				
Optional parts							
Centralised control			See compatibility table on p. 69				

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

PROJECT VRF R410A FULL DC INVERTER

PREMIUM - SERIE K INDOOR UNITS

		kW	1.50	1.80	2.20	2.80	3.60	4.50	5.60	7.10	9.00	11.20	12.50	14.00	16.00	20.00	25.00	28.00
Cassette units	60x60 round flow  HTFU XRV-K		•		•	•	•	•										
	84x84  HTBU XRV-K								•	•	•	•		•				
Ducted	low pressure head  HRDU XRV-K		•	•		•												
	medium pressure head  HUCU XRV-K							•	•	•	•	•		•				
	high pressure head  HVDU XRV-K									•		•			•	•		•
	all-outside air  HVDU-F XRV-K												•	•		•	•	•
Floor	wall  HKEU XRV-K				•		•	•	•	•	•							
	floor / ceiling  HSFU XRV-K								•	•	•	•		•				
	recessed  HFIU XRV-K				•	•		•										
	console  HFCU XRV-K					•	•		•									

PROJECT VRF R410A FULL DC INVERTER

HTFU XRV-K Cassette 60x60 round flow



Infrared remote control



Main features

5 power levels: 1.50~4.50 kW.

TFP 352 IHRS panel with 360° air diffusion.

Wide louvre oscillation range up to 40°.

Electrical box inside the unit body.

Pre-set for the connection of a channel for the intake of external air.

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

Model			HTFU 155 XRV-K*	HTFU 225 XRV-K	HTFU 285 XRV-K	HTFU 365 XRV-K	HTFU 455 XRV-K
Rated cooling capacity		kW	1.5	2.2	2.8	3.6	4.5
Rated heating capacity		kW	1.7	2.4	3.2	4	5
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	14	15	16	21	
Product specifications							
Air flow	L/M/H	m³/h	364 / 449 / 526			405 / 503 / 576	409 / 521 / 610
Sound pressure level at 1.4 m	L/M/H	dB(A)	21/32/33	22/32/34			27/34/40
Sound power level	L/M/H	dB(A)	34/44/45	35/44/46			41/47/52
Dimensions	LxHxD	mm	570x260x570				
	Net weight	Kg	16				17.5
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				
Condensate drain		Ø mm	25				
Serial control		type	IR Remote control				
Accessories							
Decorative panel			TFP 352 IHR-S				
Panel dimensions	LxHxD	mm	647x50x647				
	Net weight	Kg	2.5				
Optional parts							
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT				
Centralised control			See compatibility table on p. 69				

* Can only be connected to XRV PLUS MINI Inverter line outdoor units up to 18 kW.

HTBU XRV-K Cassette 84x84



Infrared remote control



Main features

5 power levels: 5.60~14.00 kW.

Opening louvre angle up to 42°.

Low resistance and low noise fan profile

TBP 712 IHXR panel and 4 removable corners for easy installation.

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

Internal electronic control (accessible from the panel).

Pre-set for connecting a duct for outside air intake and a duct for cooling/heating a small adjacent room.

Model			HTBU 565 XRV-K	HTBU 715 XRV-K	HTBU 905 XRV-K	HTBU 1125 XRV-K	HTBU 1405 XRV-K
Rated cooling capacity		kW	5.6	7.1	9	11.2	14
Rated heating capacity		kW	6.3	8	10	12.5	15
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	31	46	75		94
Product specifications							
Air flow	L/M/H	m³/h	704/857/1029	748/996/1200	1030/1239/1596		1280/1500/1800
Sound pressure level at 1.4 m	L/M/H	dB(A)	34/38/43	34/39/45	36/41/47		44/47/50
Sound power level	L/M/H	dB(A)	47/50/54	47/51/56	49/53/58		48/57/61
Dimensions	LxHxD	mm	840x230x840		840x300x840		
	Net weight	Kg	24		27		30
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")				
Condensate drain		Ø mm	32				
Serial control		type	IR Remote control				
Accessories							
Decorative panel			TBP 712 IHXR				
Panel dimensions	LxHxD	mm	950x70x950				
	Net weight	Kg	5.8				
Optional parts							
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT				
Centralised control			See compatibility table on p. 69				

Main features

HRDU XRV-K
Low head ducted



Infrared remote control



Model		HRDU 185 XRV-K	HRDU 225 XRV-K	HRDU 365 XRV-K
Rated cooling capacity	kW	1.8	2.2	3.6
Rated heating capacity	kW	2.2	2.6	4.0
Electrical data				
Power supply	Ph-V-Hz	1-220~240V-50Hz		
Electrical absorption	W	23		30
Product specifications				
Air flow	L/M/H	m³/h	415/520/590	465/560/655
Fan pressure head	Std/Max	Pa	10/30	
Sound pressure level at 1.4 m	L/M/H	dB(A)	24/26/34	28/31/37
Sound power level	L/M/H	dB(A)	37/38/45	41/43/48
Dimensions	LxHxD	mm	740x210x470	
	Net weight	Kg	13.5	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")	
Condensate drain		Ø mm	25	
Serial control		type	IR Remote control	
Optional parts				
Wired remote control	DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT			
Centralised control	See compatibility table on p. 69			

HUCU XRV-K
Medium head ducted



Wired control
standard supplied



Model			HUCU 455 XRV-K	HUCU 565 XRV-K	HUCU 715 XRV-K	HUCU 905 XRV-K	HUCU 1125 XRV-K	HUCU 1405 XRV-K
Rated cooling capacity		kW	4.5	5.6	7.1	9.0	11.2	14.0
Rated heating capacity		kW	5.0	6.3	8.0	10.0	12.5	15.5
Electrical data								
Power supply		Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption		W	58	89	68	108	178	204
Product specifications								
Air flow	L/M/H	m³/h	550/640/748	566/640/821	778/940/1021	940/1090/1290	1352/1550/1780	1400/1600/1950
Fan pressure head	Std/Max	Pa	10/30			20/50	40/80	40/100
Sound pressure level at 1.4 m	L/M/H	dB(A)	33/37/38			37/38/44	37/41/47	38/42/47
Sound power level	L/M/H	dB(A)	46/48/49			47/50/51	48/50/55	50/53/58
Dimensions	LxHxD	mm	960x210x500			1180x210x500	1180x270x775	1240x300x865
	Net weight	Kg	22.5			28	40	40
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			9.52 (3/8") - 15.9 (5/8")		
Condensate drain		Ø mm	25					
Serial control		type	Wired remote control					
Optional parts								
Centralised control			See compatibility table on p. 69					

Main features

6 power levels: 4.50~14.00 kW.

Ultra-compact design: only 210 mm for the 4.50~7.10 kW models.

Low acoustic impact: only 33 dB(A) (4.50~5.60 kW).

Available pressure head: 30 Pa (4.50~7.10 kW);
50 Pa (9.00 kW); 80 Pa (11.20 kW); 100 Pa (14.00 kW).

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

Electric box can be removed from the unit body and can be installed up to 1 m away.

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

PROJECT VRF R410A FULL DC INVERTER

Main features

HVDU XRV-K

Ducted with high head



Wired control
standard supplied



5 power levels: 7.10~28.00 kW.

Ultra-compact design: only 420 mm for the 7.10~16.00 kW models.

Low acoustic impact: only 42 dB(A) (7.10 kW).

Available pressure head: 196 Pa (7.10~16.00 kW); 200 Pa (20.00~28.00).

Rear air intake.

Model			HVDU 715 XRV-K	HVDU 1125 XRV-K	HVDU 1605 XRV-K	HVDU 2005 XRV-K	HVDU 2805 XRV-K
Rated cooling capacity		kW	7.1	11.2	16.0	20.0	28.0
Rated heating capacity		kW	8.0	12.5	17.0	22.5	31.5
Electrical data							
Power supply		Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption		W	180	380	420	800	
Product specifications							
Air flow	L/M/H	m³/h	1250/1390/1500	1710/1930/2080	2400/2660/3400	4620/4660/4820	4690/4760/4870
Fan pressure head	Std/Max	Pa	25/196	37/196	50/196	62/200	
Sound pressure level at 1.4 m	L/M/H	dB(A)	42/44/46	45/47/50	50/52/54	50/53/57	
Sound power level	L/M/H	dB(A)	55/56/57	58/59/61	63/64/65	63/65/68	
Dimensions	LxHxD	mm	952x420x690		1300x420x690	1443x470x810	
	Net weight	Kg	41	47	70	108	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")			2 x 9.52 (3/8") - 2 x 15.9 (5/8")	
Condensate drain		Ø mm	25			32	
Serial control		type	Wired remote control				
Optional parts							
Centralised control			See compatibility table on p. 69				

Main features

HVDU-F XRV-K

All-outside air ducted



Wired control
standard supplied



These air processing units can be connected together with the indoor units to the same refrigerant system, thus increasing the design flexibility and creating mining a remarkable reduction in operating costs.

5 power levels: 12.50~28.00 kW.

Ultra-compact design: only 420 mm in height (12.50~14.00 kW).

Max pressure head of fans: 200 Pa.

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

Model			HVDU-F 1255 XRV-K	HVDU-F 1405 XRV-K	HVDU-F 2005 XRV-K	HVDU-F 2505 XRV-K	HVDU-F 2805 XRV-K
Rated cooling capacity (1)	kW		12.5	14.0	20.0	20.0	28.0
Rated heating capacity (2)	kW		10.5	12.0	18.0	20.0	22.0
Electrical data							
Power supply	Ph-V-Hz		1-220~240V-50Hz				
Electrical absorption	W		370		615	670	
Product specifications							
Air flow	L/M/H	m³/h	1470/2000/2440			2890/3430/3860	
Fan pressure head	Std/Max	Pa	50-200			62/200	
Sound pressure level at 1.4 m	L/M/H	dB(A)	48/50/52			49/51/52	50/52/53
Sound power level	L/M/H	dB(A)	61/62/63			61/62/63	62/63/64
Dimensions	LxHxD	mm	1300x420x690			1443x470x810	
	Net weight	Kg	63			108	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")			12.7 (1/2") - 22.2 (7/8")	
Condensate drain		Ø mm	25			32	
Serial control		type	Wired remote control				
Optional parts							
Centralised control			See compatibility table on p. 69				

(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.

PROJECT VRF R410A FULL DC INVERTER

Main features

HKEU XRV-K Wall



Infrared remote control



6 power levels: 2.20~9.00 kW.
Extremely quiet: only 29 dB(A) (2.20 kW)
New built-in electronic expansion valve with 2000 pulse/min.
Washable standard filter & anti-formaldehyde filter to eliminate the harmful effects of the gas released in the environments.

Model			HKEU 226 XRV-K	HKEU 366 XRV-K	HKEU 456 XRV-K	HKEU 566 XRV-K	HKEU 716 XRV-K	HKEU 906 XRV-K
Rated cooling capacity		kW	2.2	3.6	4.5	5.6	7.1	9.0
Rated heating capacity		kW	2.4	4.0	5.0	6.3	8.0	10.0
Electrical data								
Power supply		Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption		W	7	18	18	25	40	65
Product specifications								
Air flow	L/M/H	m³/h	356/393/422	488/573/656	424/507/594	547/648/747	809/1005/1195	867/1067/1421
Sound pressure level at 1 m	L/M/H	dB(A)	29/30/31	30/32/33	31/33/35	34/36/38	36/39/44	38/43/48
Sound power level	L/M/H	dB(A)	41/42/43	42/44/45	43/45/47	46/48/50	48/51/56	50/55/60
Dimensions	LxHxD	mm	835x280x203	990x315x223			1194x343x262	
	Net weight	Kg	8.4	11.4	12.8		17	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")			9.52 (3/8") - 15.9 (5/8")		
Condensate drain		Ø mm	16					
Serial control		type	IR Remote control					
Optional parts								
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT					
Centralised control			See compatibility table on p. 69					

Main features

HSFU XRV-K Floor/ceiling



Infrared remote control



5 power levels: 5.60~14.00 kW.
3 fan speeds.
Auto Swing function that optimizes the distribution of air flow in the environment.
Built-in electronic expansion valve.
Easy installation with unit attached to the wall or ceiling.
Electric wiring and refrigerant connections can be reached from the air intake grille.

Model		HSFU 565 XRV-K	HSFU 715 XRV-K	HSFU 905 XRV-K	HSFU 1125 XRV-K	HSFU 1405 XRV-K
Rated cooling capacity	kW	5.6	7.1	9.0	11.2	14.0
Rated heating capacity	kW	6.3	8.0	10.0	12.5	15.5
Electrical data						
Power supply	Ph-V-Hz	1-220~240V-50Hz				
Electrical absorption	W	94		126	130	
Product specifications						
Air flow	L/M/H	m³/h	720/830/930	1050/1170/1280	1580/1700/1890	
Sound pressure level at 1 m	L/M/H	dB(A)	36/38/40	40/43/45	42/45/47	
Sound power level	L/M/H	dB(A)	51/53/54	53/55/56	55/56/58	
Dimensions	LxHxD	mm	990x660x203	1280x660x203	1670x680x244	
	Net weight	Kg	27	33	49	
Refrigerant connections	Liquid/Gas	Ø mm (inch)	9.52 (3/8") - 15.9 (5/8")			
Condensate drain		Ø mm	25			
Serial control	type		IR Remote control			
Optional parts						
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT			
Centralised control			See compatibility table on p. 69			

PROJECT VRF R410A FULL DC INVERTER

Main features

HFIU XRV-K Console



Infrared remote control



- 3 power levels: 2.20~4.50 kW.
- Ultra-compact design: only 210 mm deep.
- Dual capacity to control air output floor: upper and lower.
- 5 fan speeds.
- Front and side air intake.
- Anti-formaldehyde filter to eliminate the harmful effects of the gases released in the environments.

Model		HFIU 225 XRV-K		HFIU 285 XRV-K		HFIU 455 XRV-K	
Rated cooling capacity	kW	2.2		2.8		4.5	
Rated heating capacity	kW	2.6		3.2		5.0	
Electrical data							
Power supply	Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption	W	20		25		45	
Product specifications							
Air flow (1)	L/M/H	m³/h	229/345/430	229/430/510		400/512/660	
Sound pressure level at 1 m (1)	L/M/H	dB(A)	26/32/38	27/33/39		36/39/42	
Sound power level (1)	L/M/H	dB(A)	39/44/49	40/45/50		49/51/53	
Dimensions	LxHxD	mm	700x600x210				
	Net weight	Kg	14	15			
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				
Condensate drain		Ø mm	16				
Serial control		type	IR Remote control				
Optional parts							
Wired remote control			DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT				
Centralised control			See compatibility table on p. 69				

Main features

HFCU XRV-K Flush floor



Infrared remote control



- 3 power levels: 2.80~5.60 kW.
- Extremely quiet: only 29 dB(A) (2.80 kW)
- Lower air intake.
- Built-in expansion valve and electronic control

Model		HFCU 285 XRV-K		HFCU 365 XRV-K		HFCU 565 XRV-K	
Rated cooling capacity	kW	2.8		3.6		5.6	
Rated heating capacity	kW	3.2		4.0		6.3	
Electrical data							
Power supply	Ph-V-Hz	1-220~240V-50Hz					
Electrical absorption	W	24		19		41	
Product specifications							
Air flow (1)	L/M/H	m³/h	421/485/569		375/522/624		830/970/1150
Fan pressure head	Std/Max	Pa	10/10				
Sound pressure level at 1 m (1)	L/M/H	dB(A)	29/33/36		33/36/37		31/35/41
Sound power level (1)	L/M/H	dB(A)	42/45/47		43/46/48		44/47/52
Dimensions	LxHxD	mm	840x545x212		1040x545x212		1340x545x212
	Net weight	Kg	21		28		32
Refrigerant connections	Liquid/Gas	Ø mm (inch)	6.35 (1/4") - 12.7 (1/2")				9.52 (3/8") - 15.9 (5/8")
Condensate drain		Ø mm	25				
Serial control	type	IR Remote control					
Optional parts							
Wired remote control	DTW 3 IHXR TOUCH / DTW IHXR SIMPLY / DTWS 4 IHXR COMPACT						
Centralised control	See compatibility table on p. 69						

PROJECT VRF R410A FULL DC INVERTER

EEV KIT

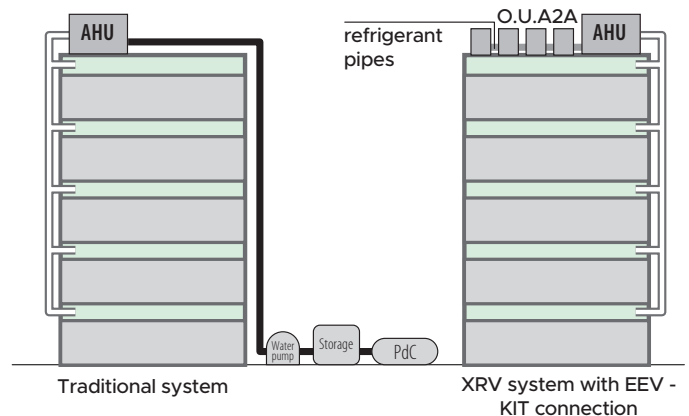
Kit for connecting AHU with direct expansion battery to Hokkaido XRV systems.



HAHU 9-20 XRV-K
HAHU 20-36 XRV-K
HAHU 36-56 XRV-K

Traditional VS XRV systems with EEV-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 indoor 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

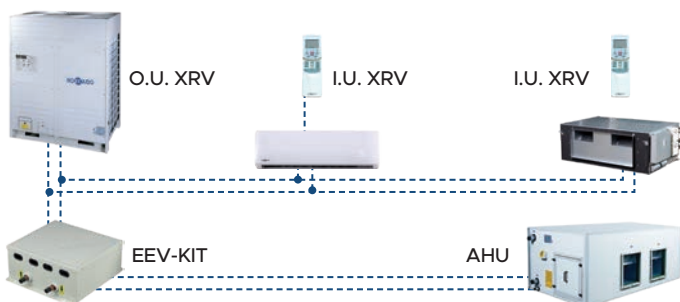
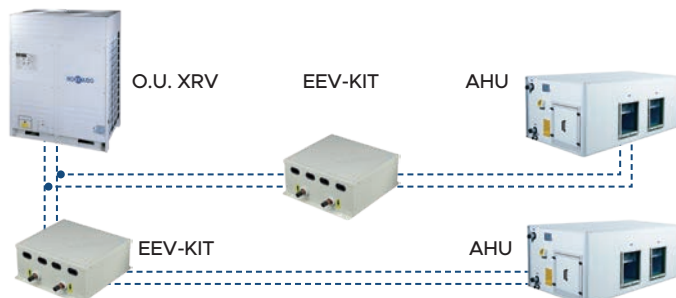


Diagram type B: AHU only



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 refrigerant gas, except for heat recovery systems (XRV 3 pipes).

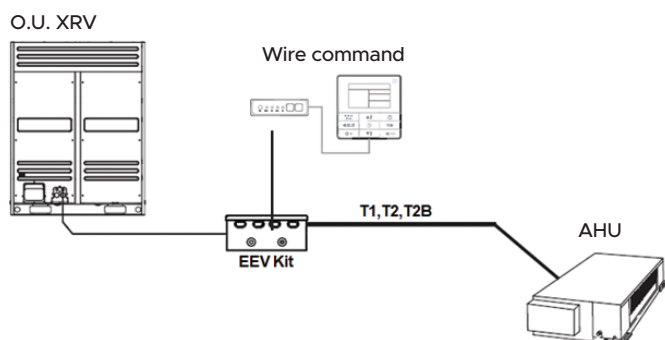
PROJECT VRF R410A FULL DC INVERTER

EEV KIT

Technical data

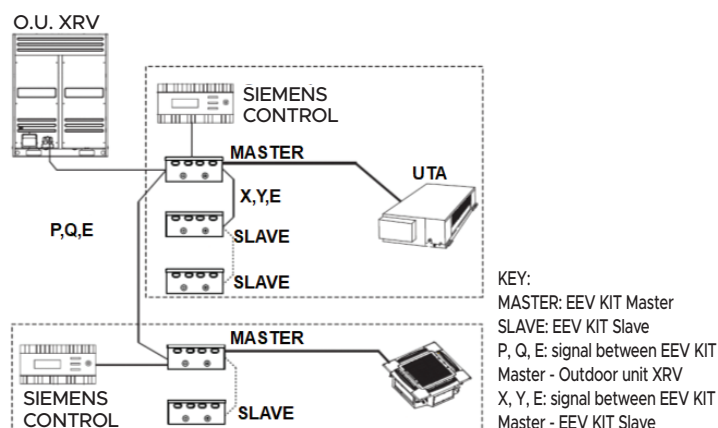
Model	HAHU 9-20 XRV-K	HAHU 20-36 XRV-K	HAHU 36-56 XRV-K
Rated heating (kW)	9~20	20.1~36	36.1~56
Power supply (Ph-V-Hz)	1-220~240V-50Hz		
H x L x P (mm)	375 x 350 x 150		
Net weight (kg)	8.4	8.7	8.9
In/out refrigerant connections [Ø mm (inch)]	7.9 (5/16")	12.7 (1/2")	15.9 (5/8")
Serial control (type)	Wired remote control		
Optional parts			
Third-party control	Siemens POL 638.70		
Centralised control	See compatibility table		

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)
HAHU 9-20 XRV-K	3.2	Between 9.0 and 11.2 kW
	4	Between 11.2 and 14.0 kW
	5	Between 14.0 and 18.0 kW
	6	Between 18.0 and 20.0 kW
HAHU 20-36 XRV-K	8	Between 20.0 and 25.0 kW
	10	Between 25.0 and 30.0 kW
	12	Between 30.0 and 36.0 kW
HAHU 36-56 XRV-K	14	Between 36.0 and 40.0 kW
	16	Between 40.0 and 45.0 kW
	18	Between 45.0 and 50.0 kW
	20	Between 50.0 and 56.0 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 36-56 XRV-K - setting capacity 20HP

HAHU 20-36 XRV-K - setting capacity 12HP