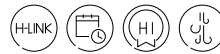


DX-Kit



Compatibility

The DX-KIT interface is the device that connects the direct expansion heat exchangers of the ATUs, air curtains and high-flow duct units to Hitachi outdoor units, in order to work in heating and cooling mode.

Total integration

Its integration means air curtains with direct expansion heat exchangers can also work in cooling, unlike conventional curtains that only operate in heating mode.

Precise temperature

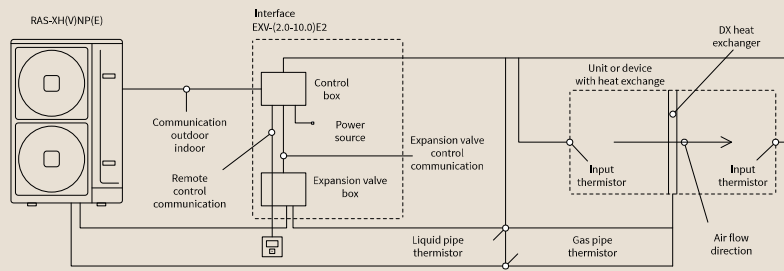
The combination of DX-KIT with RAS-XH(V)NP(E) guarantees the highest levels of precision on the market in terms of maintaining the target temperature (air flow or room temperature).

Regulation

With the option to regulate capacity according to the heat exchangers input and/or output temperature or using an external analogue signal, in accordance with cooling/heating requirements.

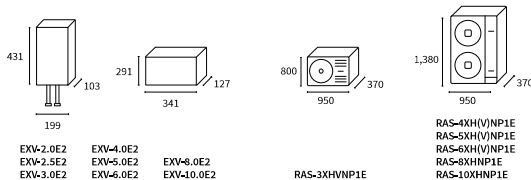
All elements included

This kit includes: expansion valve, temperature sensors and electronic regulation devices. Compatible with the Commercial range and VRF Set Free Systems.



Expansion valve and control box

Outdoor Unit IVX Premium DX



DX-kit - Expansion valve + control box

		EXV-2.0E2	EXV-2.5E2	EXV-3.0E2	EXV-4.0E2	EXV-5.0E2	EXV-6.0E2	EXV-8.0E2	EXV-10.0E2
Capacity	Cooling (Min/Nom/Max) kW	4.00-5.00-5.60	4.80-6.00-6.30	5.70-7.10-8.00	8.00-10.00-11.20	10.00-12.50-14.00	11.20-14.00-16.00	16.00-20.00-22.40	20.00-25.00-28.00
	Heating (Min/Nom/Max) kW	4.50-5.60-7.10	5.60-7.00-7.10	6.40-8.00-9.00	9.00-11.20-12.50	11.20-14.00-16.00	12.80-16.00-18.00	17.90-22.40-25.00	22.40-28.00-31.50
Exchanger volume *	Minimum l	0.57	0.89	1.03	1.51	1.92	1.92	2.92	3.89
	Maximum l	1.64	1.83	2.89	4.56	4.56	5.11	6.93	10.73
Recommended heat exchanger air flow	Minimum m ³ /h	480	690	750	1,200	1,380	1,500	3,540	4,080
	Maximum m ³ /h	1,260	1,560	1,800	2,160	2,490	2,550	4,680	5,340
Expansion valve box dimensions	Height mm	431	431	431	431	431	431	431	431
	Width mm	199	199	199	199	199	199	199	199
	Depth mm	103	103	103	103	103	103	103	103
Expansion valve box weight	kg	2.0	2.7	2.7	2.7	2.7	2.7	4.5	4.5
	Height mm	291	291	291	291	291	291	291	291
	Width mm	341	341	341	341	341	341	341	341
Control box dimensions	Depth mm	127	127	127	127	127	127	127	127
	kg	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
Electrical power		1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz

Outdoor Unit IVX Premium DX

		RAS-3XH(V)NP1E	RAS-4XH(V)NP1E	RAS-5XH(V)NP1E	RAS-6XH(V)NP1E	RAS-8XH(V)NP1E	RAS-10XH(V)NP1E
Capacity	Cooling (Min/Nom/Max) kW	3.20-7.10-8.0	4.50-10.00-11.20	5.70-12.50-14.00	6.00-14.00-16.00	8.00-20.00-22.40	10.00-25.00-28.00
	Heating (Min/Nom/Max) kW	3.50-8.00-10.60	5.00-11.20-14.00	5.00-14.00-18.00	5.00-16.00-20.00	6.30-22.40-28.00	8.00-28.00-35.00
Consumption	Cooling (nom) kW	1.46	1.99	3.11	3.94	5.36	7.88
	Heating (nom) kW	1.52	2.02	2.91	3.61	5.06	7.03
Outside operating temperatures	Cooling °C	15 to 46	15 to 46	15 to 46	15 to 46	15 to 46	15 to 46
	Heating °C	-20 to 15	-20 to 15	-20 to 15	-20 to 15	-20 to 15	-20 to 15
Power	Single-phase	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	1 ~ 230 V 50 Hz	-	-
	Three-phase	-	3N ~ 400V 50Hz	3N ~ 400V 50Hz	3N ~ 400V 50Hz	3N ~ 400V 50Hz	3N ~ 400V 50Hz
Air flow	m ³ /h	2,700	4,800	5,400	6,000	7,620	8,040
Sound pressure level (night mode)	dB(A)	46 (42)	47 (43)	48 (44)	48 (45)	57 (55)	58 (56)
Pipe diameter	Liquid-gas inches	3/8-5/8	3/8-5/8	3/8-5/8	3/8-5/8	3/8-1 1/8	1/2-1 1/8
Maximum pipe length	m	50	75	75	75	100	100
Maximum height difference (highest OU/lowest OU)	m	30/20	30/20	30/20	30/20	30/20	30/20
Compressor		Rotary	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter	Scroll DC Inverter
Refrigerant		R410A	R410A	R410A	R410A	R410A	R410A
Refrigerant charge (length without additional charge)	kg (m)	2.3 (30)	4.1 (30)	4.2 (30)	4.2 (30)	5.7 (30)	6.2 (30)
Additional refrigerant charge	g/m	please check	please check	please check	please check	please check	please check
Dimensions (H x W x D)	mm	800x950x370	1,380x950x370	1,380x950x370	1,380x950x370	1,380x950x370	1,380x950x370
Weight	kg	66.0	103.0	103.0	103.0	136.0	138.0

Combinable in accordance with type of application

Type of application	Air curtain	VRF IVX VRF DX		VRF IVX DX		VRF Set Free	
		Combinability	Controlled variable	Combinability	Controlled variable	Combinability	Controlled variable
Ducts	Capacity	Single	2 - 10 HP	Single	2 - 10 HP	Single	2 - 10 HP
	Combinability	Single	Single	Modular	Single	Modular	Modular
	Controlled variable	Outlet air temperature control	Inlet air temperature control	Inlet air temperature control	Input air temperature control	Outlet air temperature control	Input air temperature control
AHU	Capacity	Single	2 - 10 HP	Single	12 - 50 HP	Single or modular	2 - 10 HP
	Combinability	Single	Single	Single or modular	Single or modular	Single or modular	Single or modular
	Controlled variable	Setpoint signal or outlet air temperature control	Setpoint signal or outlet air temperature control	Setpoint signal or outlet air temperature control	Setpoint signal or outlet air temperature control	Setpoint signal or outlet air temperature control	Setpoint signal or outlet air temperature control
							4 - 50 HP

Compatible controls and accessories:

