DAIKIN

technical data

air conditioning systems

VRV Air handling applications - Expansion kit

EKEXV

VRV III

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EKEXV

1 Specifications

1-1 TECHNICAL SPECIFICATIONS				EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250
Casing	Colour			Ivory White							
	Material			Metal							
Dimensions	Unit	Height	mm	401	401	401	401	401	401	401	401
		Width	mm	215	215	215	215	215	215	215	215
		Depth	mm	78	78	78	78	78	78	78	78
	Packing	Height	mm	457	457	457	457	457	457	457	457
		Width	mm	270	270	270	270	270	270	270	270
		Depth	mm	120	120	120	120	120	120	120	120
Weight	Unit		kg	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
	Packed Unit		kg	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
Packing	Material			Carton							
	Weight		kg	0.29	0.29	0.29	.29	0.29	0.29	0.29	0.29
	Material			EPS							
	Weight		kg	0.066	0.066	0.066	0.066	0.066	0.066	0.066	0.066
Operation Range	Cooling	Min	°CDB	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0	-5.0
		Max	°CDB	46.0	46.0	46.0	46.0	46.0	46.0	46.0	46.0
Sound Level (nominal)	Sound pressure		dBA	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
Piping connections	Liquid (OD)	Type		Braze connection							
		Diameter (OD)	mm	6.35	9.52	9.52	9.52	9.52	9.52	9.52	9.52
	Piping Length	Minimum	m	see manual, depend on the outdoor unit							
		Maximum	m	see manual, depend on the outdoor unit							
		Equivalent	m	see manual, depend on the outdoor unit							
		Chargeless	m	see manual, depend on the outdoor unit							
	Installation height difference	Maximum	m	see manual, depend on the outdoor unit							
	Max. internunit level difference		m	see manual, depend on the outdoor unit							
	Heat Insulation			Both inlet and outlet							
Notes				The sound pressure value is the maximum value measured at 10cm from the motor.							

2 Capacity tables

2 - 1 Combination table

Combination table

				Control box	Expansion valve kit							
				Control Z	Class 50	Class 63	Class 80	Class 100	Class 125	Class 140	Class 200	Class 250
outdoor unit				EKEXMCB	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250
System B (C/O)	3 ph	5 hp	RXQ5P7W1B	n	n	n	n	n	n	n	n	n
		8 hp	RXQ8P7W1B	n	n	n	n	n	n	n	n	n
		10 hp	RXQ10P7W1B	n	n	n	n	n	n	n	n	n
		12 hp	RXQ12P7W1B	n	n	n	n	n	n	n	n	n
		14 hp	RXQ14P7W1A	n	n	n	n	n	n	n	n	n
		16 hp	RXQ16P7W1A	n	n	n	n	n	n	n	n	n
		18 hp	RXQ18P7W1A	n	n	n	n	n	n	n	n	n

n: Qty determined by connection ration or maximum number of indoors units (in combination with VRV-outdoor, the EKEXV-kit is considered as one of the indoor units)

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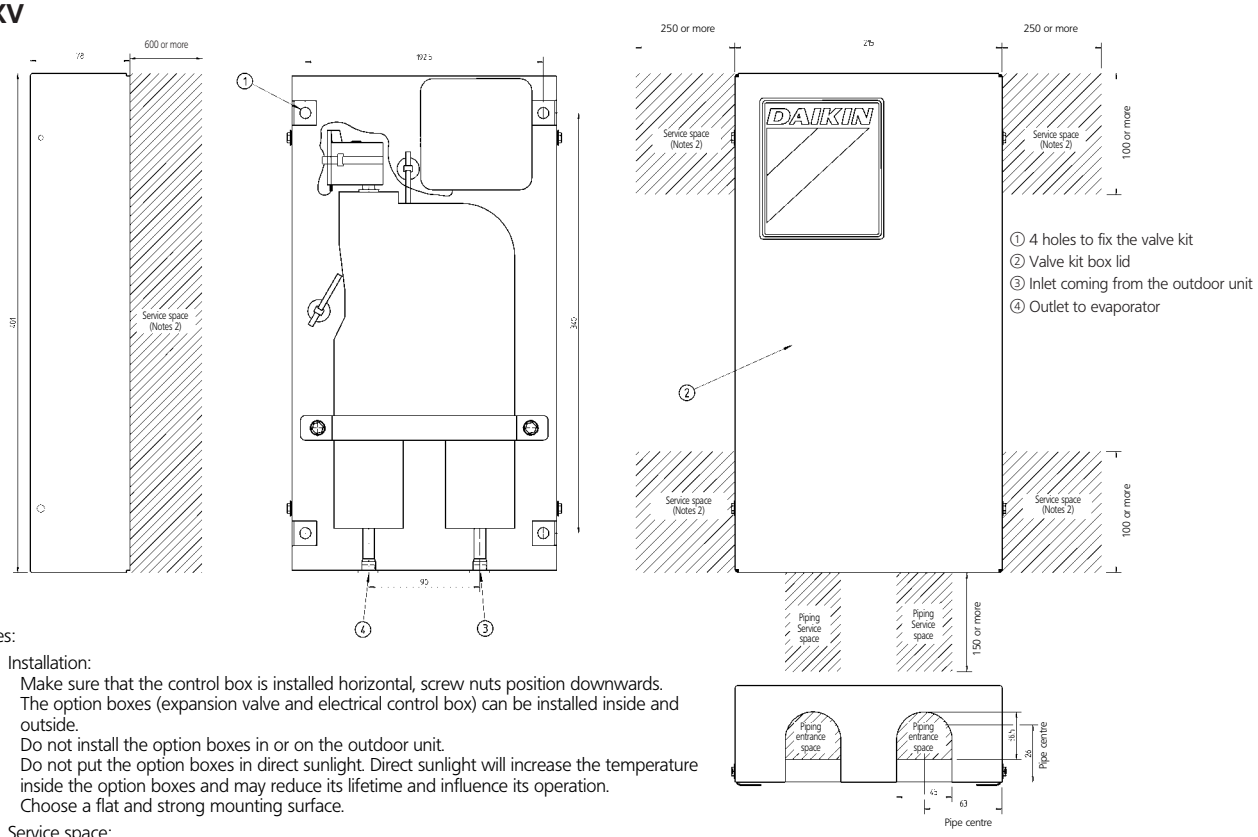
3 Dimensional drawing & centre of gravity

3 - 1 Dimensional drawing

EKEXV



Notes:

1 Installation:
Make sure that the control box is installed horizontal, screw nuts position downwards.
The option boxes (expansion valve and electrical control box) can be installed inside and outside.
Do not install the option boxes in or on the outdoor unit.
Do not put the option boxes in direct sunlight. Direct sunlight will increase the temperature inside the option boxes and may reduce its lifetime and influence its operation.
Choose a flat and strong mounting surface.

2 Service space:
Keep enough free for future maintenance.

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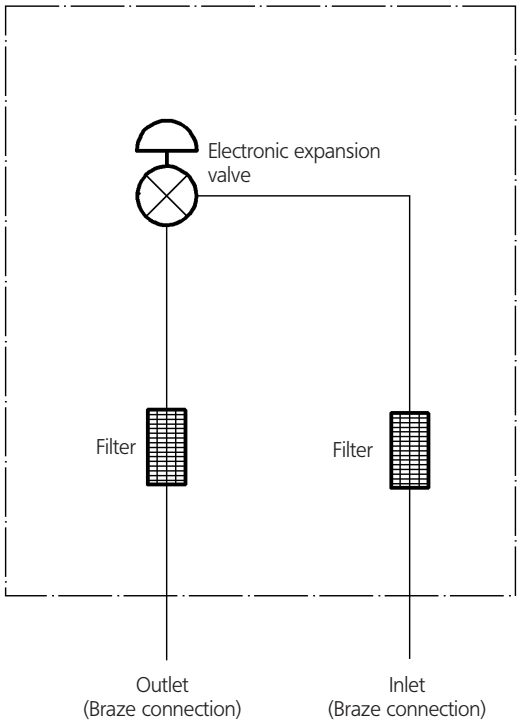
4 Piping diagram

EKEXV



Refrigerant pipe connection diameter

Model	Outlet	Inlet
EKEXV40-50	I.D. 6.4	I.D. 6.4
EKEXV63	I.D. 9.52	I.D. 9.52
EKEXV80	I.D. 9.52	I.D. 9.52
EKEXV100	I.D. 9.52	I.D. 9.52
EKEXV125	I.D. 9.52	I.D. 9.52
EKEXV140	I.D. 9.52	I.D. 9.52
EKEXV200	I.D. 9.52	I.D. 9.52
EKEXV250	I.D. 9.52	I.D. 9.52

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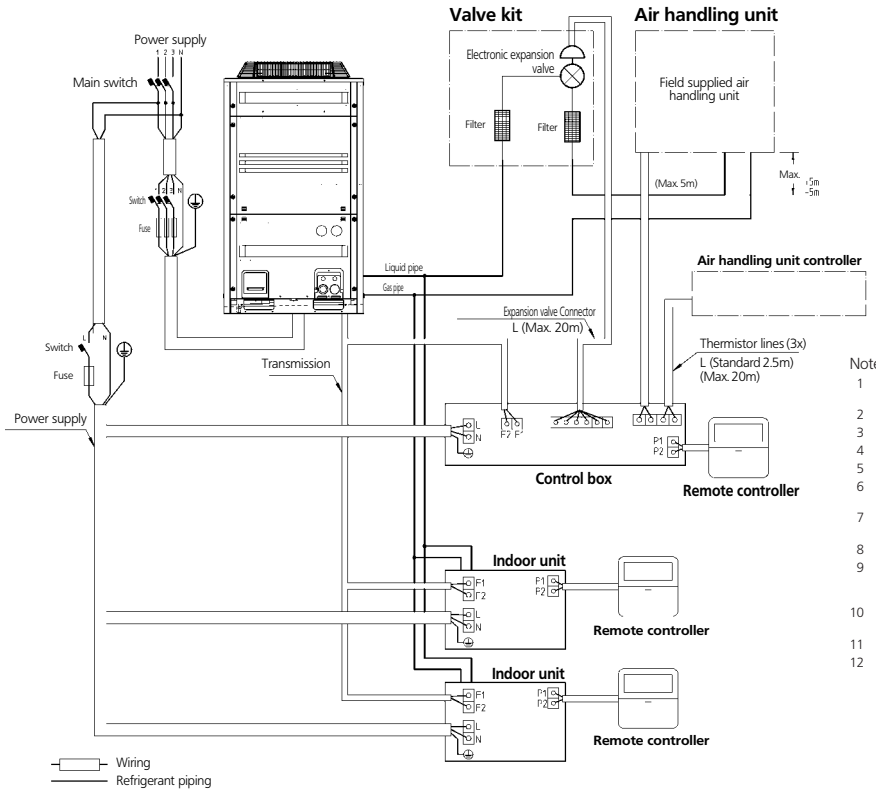
5 Wiring diagram

5 - 1 External connection diagram

EKEXMCB



Notes:

1. All wiring, components and materials to be produced on the site must comply with the applicable local and national codes.
2. Use copper conductors only.
3. For more details, see wiring diagram.
4. Install a circuit breaker for safety.
5. All field wiring and components must be provided by a licensed electrician.
6. The unit shall be grounded in compliance with the applicable local and national codes.
7. Wiring shown are general points-of-connection guides only and are not intended for or to include all details for a specific installation.
8. Be sure to install the switch and the fuse to the power line of each equipment.
9. Install the main switch that can interrupt all power sources in an integrated manner because this system consists of the equipment utilizing the multiple power sources.
10. For detailed control box side connection, see control box manual and wiring diagram.
11. For detailed pipe connections and limitations, see manuals.
12. Connection appliance can be standard indoor unit or free choice of air handling unit.

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VRV III

In all of us, a green heart

Daikin's unique position as a manufacturer of air conditioning equipment, compressors and refrigerants has led to its close involvement in environmental issues. For several years Daikin has had the intension to become a leader in the provision of products that have limited impact on the environment. This challenge demands the eco design and development of a wide range of products and an energy management system, resulting in energy conservation and a reduction of waste.

Daikin Europe N.V. is approved by LRQA for its Quality Management System in accordance with the ISO9001 standard. ISO9001 pertains to quality assurance regarding design, development, manufacturing as well as to services related to the product.

ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.

CE Daikin units comply with the European regulations that guarantee the safety of the product.

VRV products are not within the scope of the Eurovent certification programme.

DAIKIN EUROPE N.V.

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EEDEN07-200 • 07/2007 • Copyright © Daikin
The present publication supersedes EEDE06-2
Prepared in Belgium by Lannoo (www.lannooprint.be), a company whose concern for the environment is set in the EMAS and ISO 14001 systems.
Responsible Editor: Daikin Europe N.V., Zandvoordestraat 300, B- 8400 Oostende

EEDEN07-200