

# technical data



ventilation

## Expansionkit

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## EKEXV

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# 1 Features

- The ERX system provides optimized air conditions such as fresh air and humidity control etc and can be used in small warehouses, showrooms and offices.
- Wide range of Daikin units offers maximum application potential plus flexible control options.
- Control box and expansion valve kit are required for each combination plus an air handling unit.
- Both options are designed for indoor and outdoor installation and can be wall mounted.



## 2 Specifications

2-1 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	0.29	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.								

### 3 Options

**EKEX**

N°	Item	EKEXMCB
1	Remote Control (Wired type)	BRC1D527
2	Wiring adaptor for electrical appendices	KRP4A516
3	Remote sensor	KRC501-1
4	Valve kits	EKEXV50,63,80,100,125,140,200,250

Caution for options:

- Do not connect the system to DIII-NET devices (intelligent controller, intelligent manager, DMS-IF, bacnet gateway...) This could result in malfunction or breakdown of the total system.
- Do not use this system in combination with a field supplied air handling unit.  
Do not connect this system to other indoor units.
- See combination table for application of valve kits.

4TW27149-1A

## 4 Capacity tables

### 4 - 1 Combination table

#### EKEXMCB-EKEXV

##### Combination table

Outdoor unit			Control box								Existing options		
			EKEXMCBV3	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250		
System B (C/O)	3ph	5hp RXQ6P7W1B	n	n	n	n	n	n	n	n	n	See outdoor unit but no connection to D III net is allowed	
		8hp RXQ8P7W1B	n	n	n	n	n	n	n	n	n		
		10hp RXQ10P7W1B	n	n	n	n	n	n	n	n	n		n
		12hp RXQ12P7W1B	n	n	n	n	n	n	n	n	n		n
		14hp RXQ14P7W1B(A)	n	n	n	n	n	n	n	n	n		n
		16hp RXQ16P7W1B(A)	n	n	n	n	n	n	n	n	n		n
		18hp RXQ18P7W1B(A)	n	n	n	n	n	n	n	n	n		n

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

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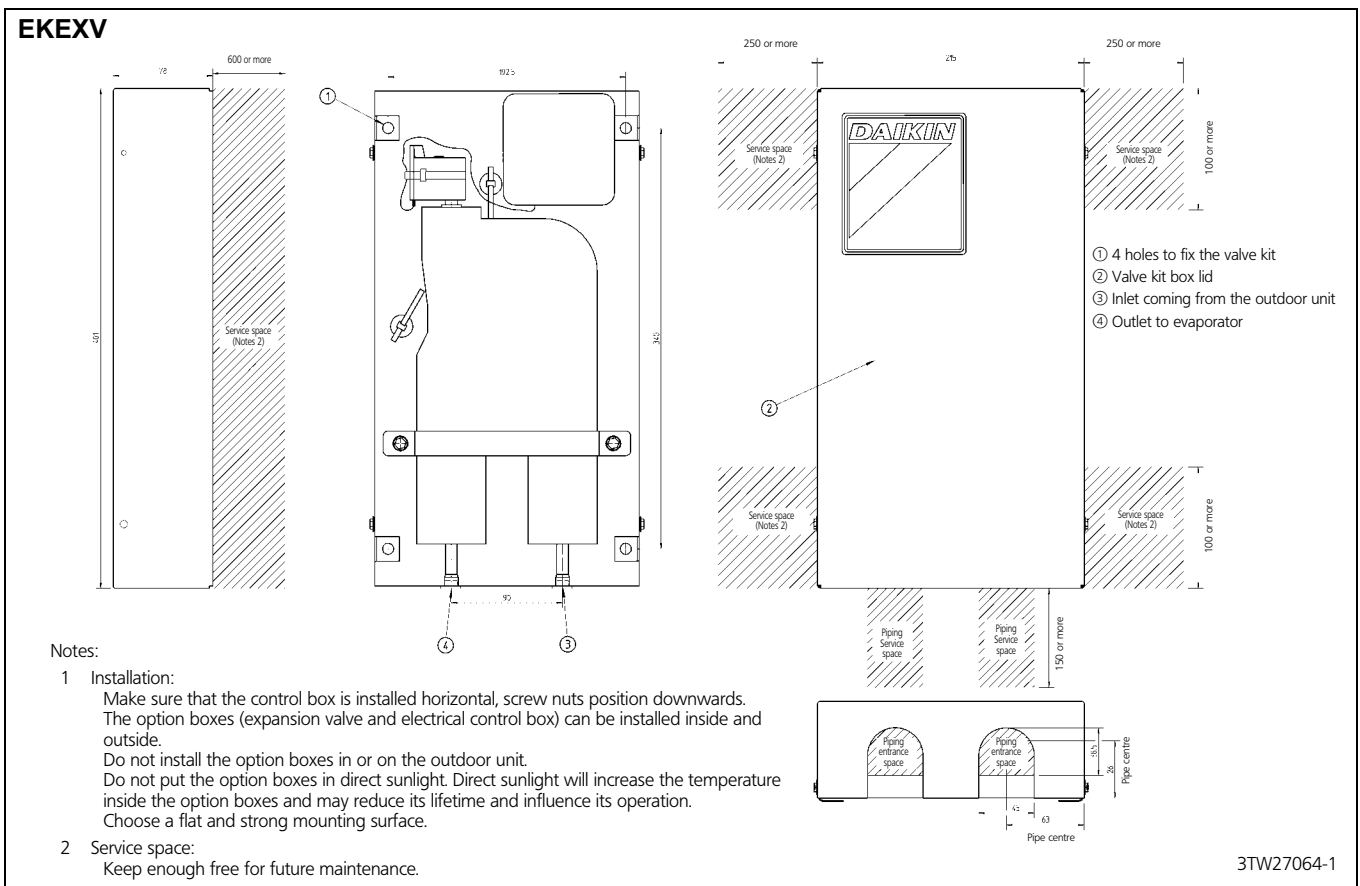
Class	Outdoor	Control box		Valve kit						
		EKEXDCBAV3	EKEXFCBAV3	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250
100	ERX100A8V3B	P	P	P	P	P	P	-	-	-
125	ERX125A8V3B	P	P	P	P	P	P	P	-	-
140	ERX140A8V3B	P	P	-	P	P	P	P	-	-
125	ERX125A7W1B	-	-	P	P	P	P	P	-	-
200	ERX200A7W1B	P	P	-	-	P	P	P	P	P
250	ERX250A7W1B	P	P	-	-	-	P	P	P	P

P: Pair: Combination depending on AHU coil volume (details see manual and capacity table)

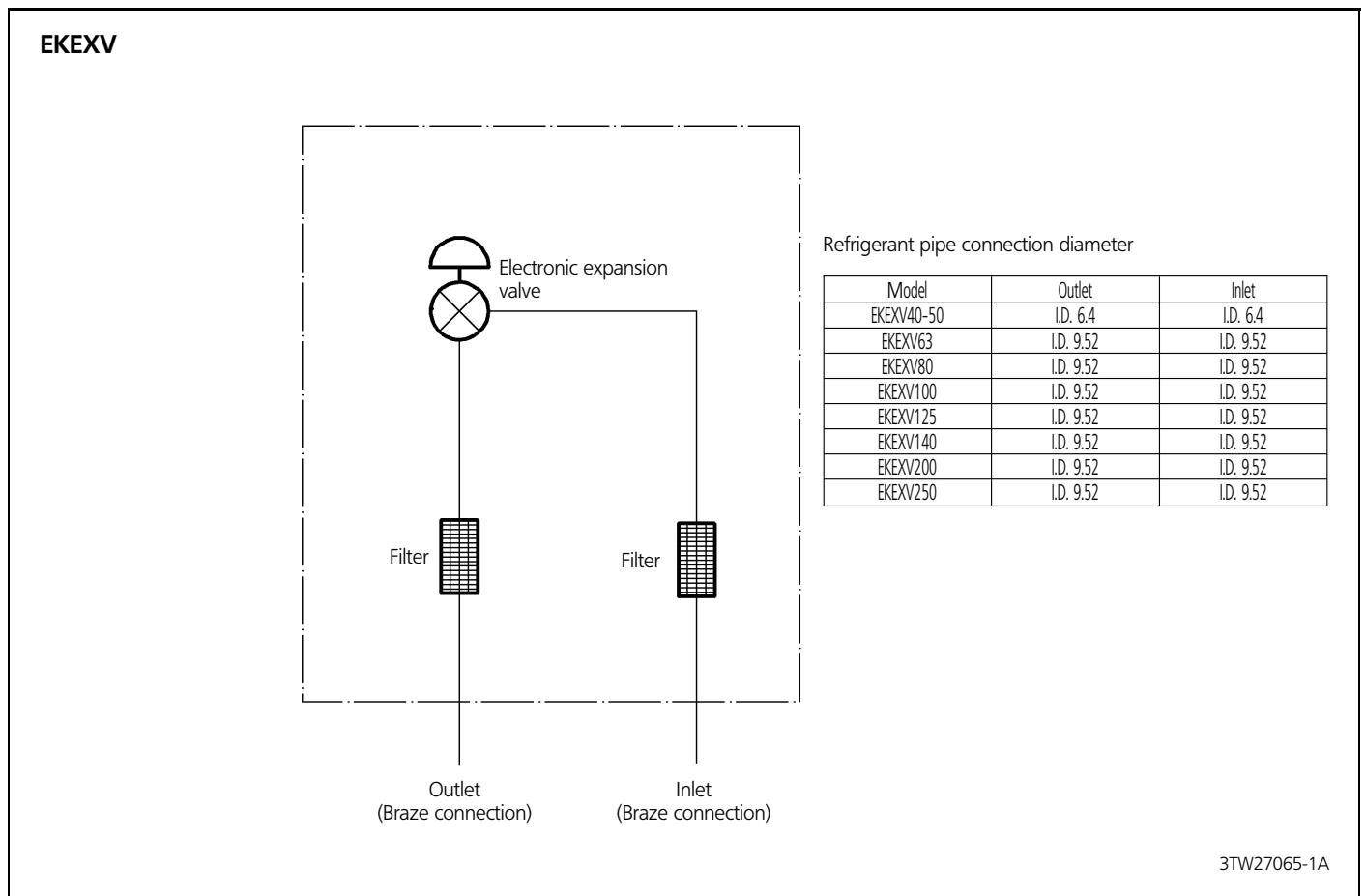
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## 5 Dimensional drawing & centre of gravity

### 5 - 1 Dimensional drawing

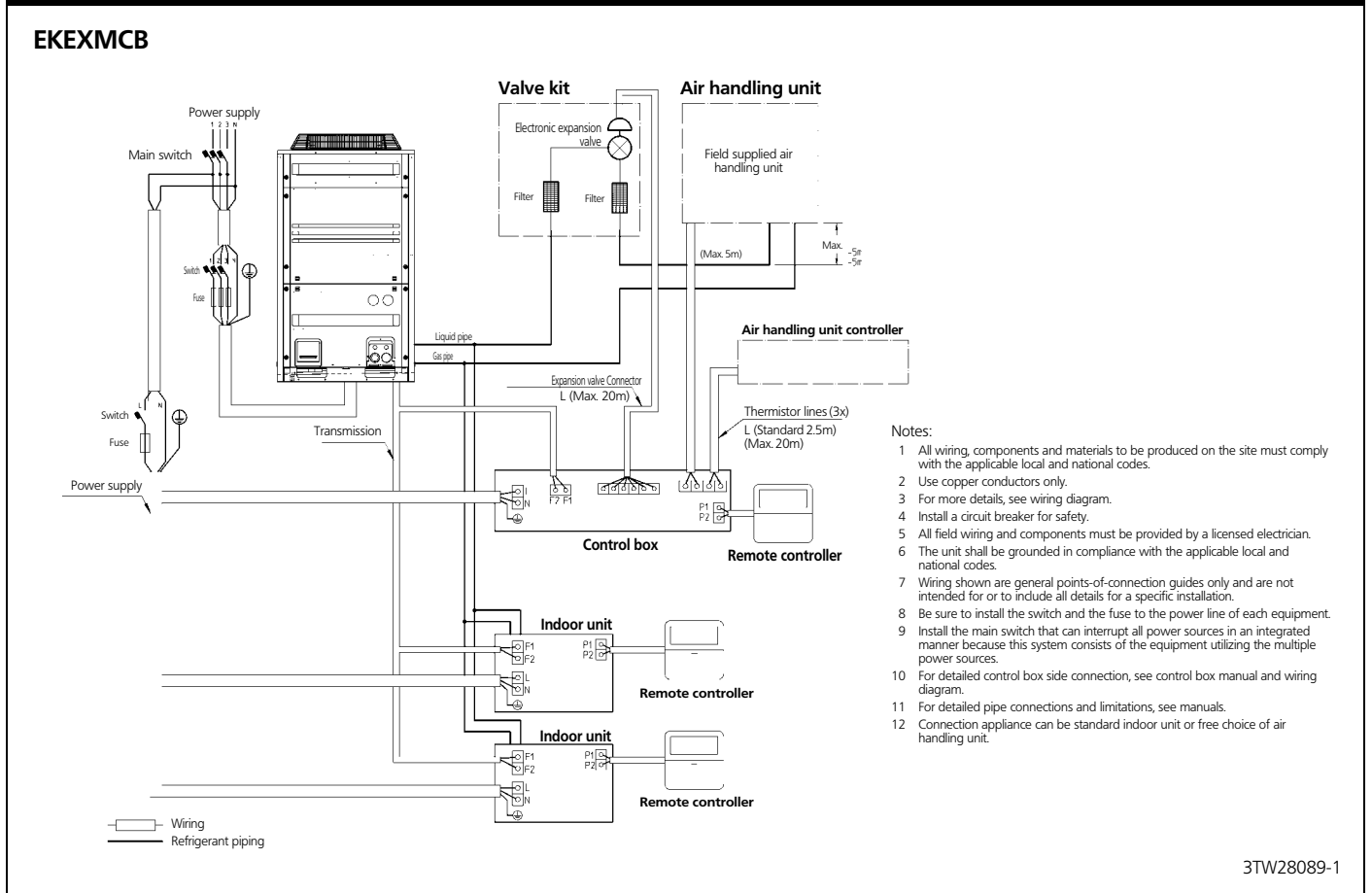
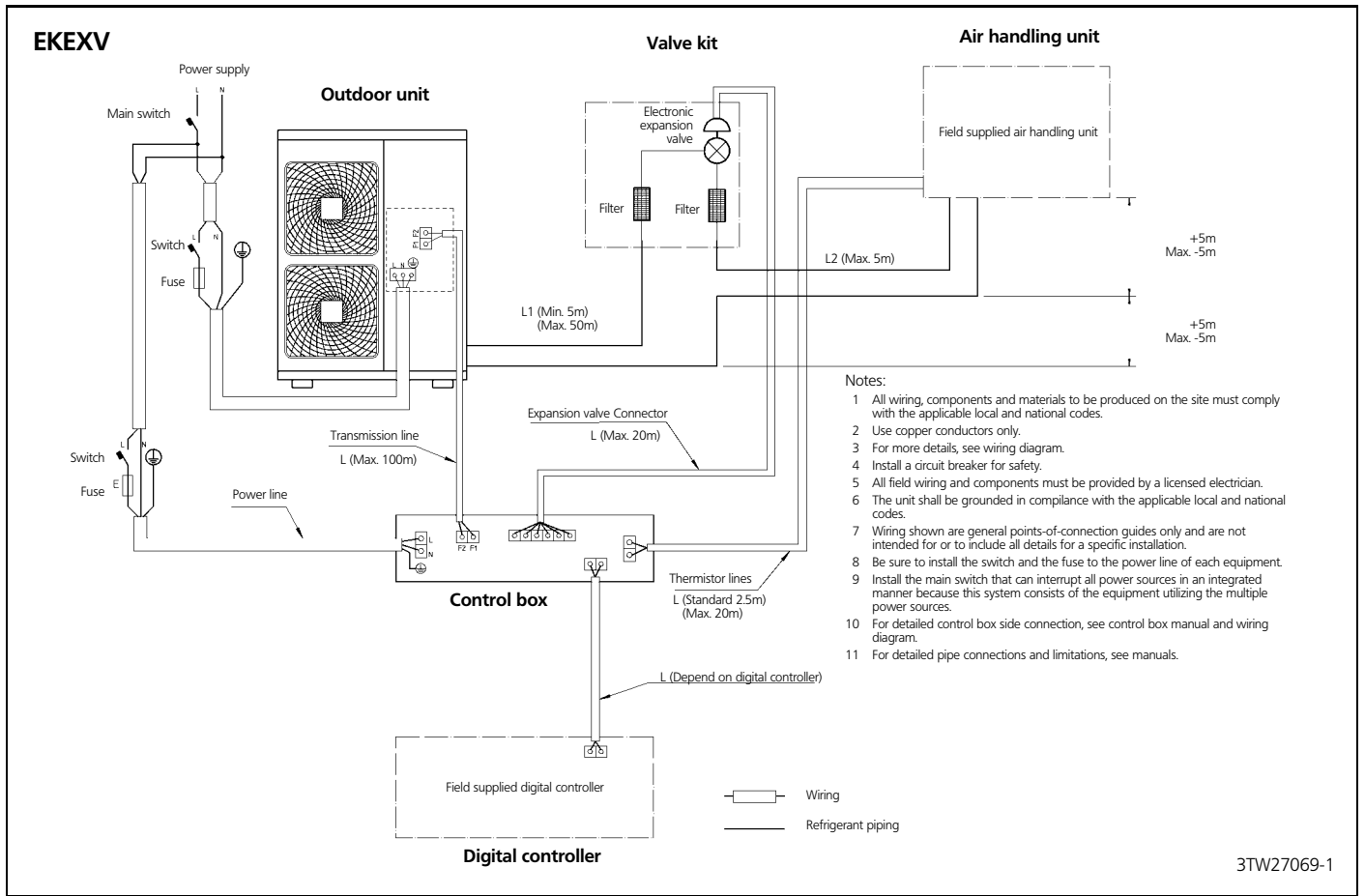


## 6 Piping diagram



# 7 Wiring diagram

## 7 - 1 External connection diagram



# 3

## Ventilation



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.



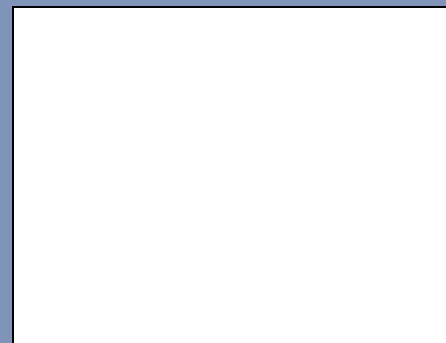
ISO14001 assures an effective environmental management system in order to help protect human health and the environment from the potential impact of our activities, products and services and to assist in maintaining and improving the quality of the environment.



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.

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### DAIKIN EUROPE N.V.

Naamloze Vennootschap  
Zandvoordestraat 300  
B-8400 Oostende, Belgium  
www.daikin.eu  
BTW: BE 0412 120 336  
RPR Oostende

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