

# EKEQD/F/MCBA

Outdoor unit		Control box			Expansion valve kit										Options					
		EKEQDCBV3	EKEQFCBAV3	EKEQMCBAV3	EKE XV50	EKE XV63	EKE XV80	EKE XV100	EKE XV125	EKE XV140	EKE XV200	EKE XV250	EKE XV400	EKE XV500	EKD K04	KWC26B160	KWC26B280	KRC19-26A6		
System A	1-phase	ERQ100	P	P	-	P	P	P	P	P	-	-	-	-	-	0	-	-	0	
		ERQ125	P	P	-	P	P	P	P	P	-	-	-	-	-	0	-	-	0	
		ERQ140	P	P	-	-	P	P	P	P	-	-	-	-	-	0	-	-	0	
	3-phase	ERQ125	P	P	-	P	P	P	P	P	-	-	-	-	-	-	0	-	-	0
		ERQ200	P	P	-	-	-	-	P	P	P	P	-	-	-	-	-	-	0	0
		ERQ250	P	P	-	-	-	-	P	P	P	P	-	-	-	-	-	-	0	0
System B	VRV III			n1	n1	n1	n1	n1	n1	n1	n1	n1	n1	n1					See note 1.	
System B	VRV IV		1 ~ 3	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2	n2					See note 1.	

P (pair application): combination depends on the capacity of the air handling unit

n1 (multi application: combination of air handling units and VRV DX indoor units): to determine the quantity, refer to 3D090229.

n2 (multi application: multiple air handling units, or the combination of air handling units and VRV DX indoor units): to determine the quantity, refer to 3D090229.

## Notes

- See outdoor unit. The system can only be connected to the following DIII-NET devices: iTouch Manager II and Modbus Interface DIII.
- Control box EKEQD can only be connected to an ERQ outdoor unit (pair application).
- Control box EKEQFA can be connected to an ERQ outdoor unit in pair application.

Control box EKEQFA: can be connected to some types of VRV IV-HP - outdoor unit system (with a maximum of 3- boxes per system; an outdoor unit system contains maximum 3- outdoor units).

Do not combine EKEQFA control boxes with VRV DX indoor units, RA indoor units, or Hydroboxes.

For details, refer to the combination table drawing of the outdoor unit.

- The control box EKEQMA: can only be connected to a VRV outdoor unit (system).

- Depending on the type of air handling unit, an appropriate expansion valve kit EKE XV must be selected using following limitations:

## Cooling

EKE XV Class	Allowed heat exchanger capacity [kW]		Allowed heat exchanger volume [dm <sup>3</sup> ]	
	Minimum	Maximum	Minimum	Maximum
50	5,00	6,20	1,33	1,65
63	6,30	7,80	1,66	2,08
80	7,90	9,90	2,09	2,64
100	10,0	12,3	2,65	3,30
125	12,4	15,4	3,31	4,12
140	15,5	17,6	4,13	4,62
200	17,7	24,6	4,63	6,60
250	24,7	30,8	6,61	8,25
400	35,4	49,5	9,26	13,2
500	49,6	61,6	13,2	16,5

Saturated evaporating temperature: 6°C

Air temperature: 27°C DB / 19°C WB

## Heating

EKE XV Class	Allowed heat exchanger capacity [kW]		Allowed heat exchanger volume [dm <sup>3</sup> ]	
	Minimum	Maximum	Minimum	Maximum
50	5,60	7,00	1,33	1,65
63	7,10	8,80	1,66	2,08
80	8,90	11,1	2,09	2,64
100	11,2	13,8	2,65	3,30
125	13,9	17,3	3,31	4,12
140	17,4	19,8	4,13	4,62
200	19,9	27,7	4,63	6,60
250	27,8	34,7	6,61	8,25
400	39,8	55,0	9,26	13,2
500	55,1	69,3	13,2	16,5

Saturated condensing temperature: 46°C

Air temperature: 20°C DB

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