

Outdoor unit		Control box			Expansion valve kit									Options				
		EKEQDCBV3	EKEQFCBAV3	EKEQMCAV3	EKEXV50	EKEXV63	EKEXV80	EKEXV100	EKEXV125	EKEXV140	EKEXV200	EKEXV250	EKEXV400	EKEXV500	EKDK04	KWC26B160	KWC26B260	KRC19-26A6
System A	1-phase	ERQ100	P	P	-	P	P	P	P	-	-	-	-	0	-	-	0	
		ERQ125	P	P	-	P	P	P	P	-	-	-	-	0	-	-	0	
		ERQ140	P	P	-	-	P	P	P	-	-	-	-	0	-	-	0	
	3-phase	ERQ125	P	P	-	P	P	P	P	-	-	-	-	-	0	-	-	0
		ERQ200	P	P	-	-	-	P	P	P	P	-	-	-	-	-	0	0
		ERQ250	P	P	-	-	-	-	P	P	P	-	-	-	-	-	0	0
System B	VRV III			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	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

1. See outdoor unit. The system can only be connected to the following DIII-NET devices: iTouch Manager II and Modbus Interface DIII.
2. Control box EKEQD can only be connected to an ERQ outdoor unit (pair application).
3. 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 outdoor unit (with a maximum of 3 boxes per outdoor unit).

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.

4. The control box EKEQMA can only be connected to a VRV outdoor unit in multi application.
5. Depending on the type of air handling unit, an appropriate expansion valve kit EKEXV must be selected using following limitations: SH (superheat) = 5K and SC (subcool) = 3K

Cooling

EKEXV class	Allowed heat exchanger capacity [kW]	
	minimum	maximum
50	5.0	6.2
63	6.3	7.8
80	7.9	9.9
100	10.0	12.3
125	12.4	15.4
140	15.5	17.6
200	17.7	24.6
250	24.7	30.8
400	35.4	49.5
500	49.6	61.6

Saturated evaporating temperature: 6°C

Air temperature: 27°C DB / 19°C WB

Heating

EKEXV class	Allowed heat exchanger capacity [kW]	
	minimum	maximum
50	5.6	7.0
63	7.1	8.8
80	8.9	11.1
100	11.2	13.8
125	13.9	17.3
140	17.4	19.8
200	19.9	27.7
250	27.8	34.7
400	39.8	55.0
500	55.1	69.3

Saturated evaporating temperature: 46°C

Air temperature: 20°C DB