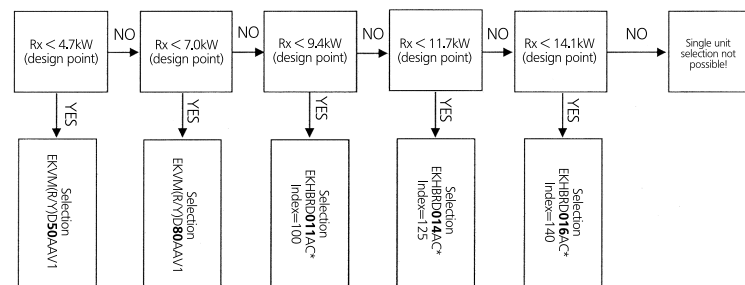


**Outline**

- A. Select required indoor unit capacity, based on design point for each apartment (Required capacity)
- B. Sum all required indoor unit capacities & capacity indices
- C. Select outdoor unit specifications (capacity table) so capacity matches with required capacity on design point (ambient)
- D. Check if capacity index total matches outdoor unit capacity index
- E. For full heating operation, 100% connection ration is required

Which indoor unit is required?

**A. Indoor unit**



Rx: required heating capacity apartment X

**B. Required capacity**

$$R = \sum R_x$$

Required capacity =  $\sum$  (Required capacity apartment X)

I = Capacity index

R [kW]

**C. Which outdoor unit is required?**

Select outdoor unit by heating capacity at design ambient temperature = R

**D. Capacity index check**

Outdoor unit capacity index

Connection ratio	50%	100%	130%
EMRQ8AAAY1	100	200	260
EMRQ10AAAY1	125	250	325
EMRQ12AAAY1	150	300	390
EMRQ14AAAY1	175	350	455
EMRQ16AAAY1	200	400	520

**E. 100% connection ratio is recommended**

**Example**

Apartment	Rx (kW)	Type	Index
1	7	EKHVM(R/Y)D80AAV1	80
2	6	EKHVM(R/Y)D80AAV1	80
3	5	EKHVM(R/Y)D50AAV1	50
4	4	EKHVM(R/Y)D50AAV1	50
5	4	EKHVM(R/Y)D50AAV1	50
6	8	EKHBRD011AC*	100

R	34	= (7+6+5+4+4+8)
I	410	= (80+80+50+50+50+100)

Ta = -8°C } Search capacity table → Fit: EMRQ16AAAY1  
 R = 34kW }

Outdoor unit capacity index

Connection ratio	50%	100%	130%
EMRQ8AAAY1	100	200	260
EMRQ10AAAY1	125	250	325
EMRQ12AAAY1	150	300	390
EMRQ14AAAY1	175	350	455
→ EMRQ16AAAY1	200	400	520

EMRQ16AAAY1 is preferred over EMRQ14AAAY1