

VRV5  
Heat pump  
Piping restrictions

Total					Allowed capacity	
Capacity	Maximum indoor unit quantity	Maximum total downstream capacity – flow through connection 5V- unit	Maximum downstream number of ports – flow through connection 5V- unit		•VRV DX- indoor unit	Air handling unit (AHU)
	[*1]	[M1], [M2]	[N1], [N2]			
•VRV R32 DX- indoor unit	50 ~ 130%	64	650	16	50 ~ 130%	-
AHU only (Pair ( EKEKVA+EKEACVE )) [*3]	65/75 ~ 110% (*3)(*4)	11 (*2)(*6)	550	16	-	65/75 ~ 110% (*3)(*4)
AHU only (Multi ( EKEKVA+EKEACVE )) [*5]	65/75 ~ 110% (*3)(*4)	11 (*2)(*6)	550	16	-	65/75 ~ 110% (*3)(*4)
•VRV R32 DX- indoor unit + AHU mix(EKEKVA+EKEACVE)- [*5]	50 ~ 110% (*3)	51 (*2)(*7)	550	16	50 ~ 110%	0 ~ 60% (*3)

- Notes
- Excluding 5V- units and including EKEKVA- kits.
  - For connection with AHU:  
•EKEKVA- kits are also considered indoor units.
  - Restrictions regarding the air handling unit capacity
  - 75%-110%- default situation  
45%-75%- Allowed if stricter AHU volume limitations are valid.  
Refer to the databook of EKEACVE- for details.
  - Pair AHU = system with 1 air handling unit connected to one outdoor unit system  
Multi AHU = system with multiple air handling units connected to one outdoor unit system  
Mixed AHU = mix of AHU units and •VRV DX- indoor units connected to one outdoor system
  - Number of AHUs that can be connected in case of pair or multi layout depends on the control types:  
•X- control is possible (up to 3- (EKEKVA+EKEACVE)- boxes can be connected to one outdoor unit (system)).  
•Y- control is possible (up to 3- (EKEKVA+EKEACVE)- boxes can be connected to one outdoor unit (system)).  
•W- control is possible (up to 3- (EKEKVA+EKEACVE)- boxes) can be connected to one outdoor unit (system)).  
•Z2- control is possible (the allowed number of ( EKEKVA + EKEACVE - boxes) is determined by the connection ratio and the capacity of the outdoor unit.
  - Maximum indoor unit quantity is based upon combination of one minimum AHU class in combination of multiple minimum DX indoor class.

Amount of units connectable to a 5V- unit

	SV1A	SV4A	SV6A	SV8A	Multi 5V- per branch	Multi 5V- when 2 branches are combined
•VRV R32 DX- indoor unit	Maximum 5- units Maximum 250- class	Maximum 20- units Maximum 400- class	Maximum 30- units Maximum 600- class	Maximum 40- units Maximum 650- class	Maximum 5- units Maximum 140- class	Maximum 5- units Maximum 250- class

- Notes
- Excluding SV1A- units  
In case the indoor unit capacity class exceeds 140-, two branch ports need to be combined. Refer to the installation manual for more details.