

**VRV5-S  
Heat pump  
Piping restrictions**

Capacity	Total			Allowed capacity		
	Maximum indoor unit quantity	Maximum total indoor capacity 8HP/10HP/12HP	Maximum downstream number of ports – flow through connection -SV- unit	VRV DX indoor unit	Air handling unit (AHU)	
	(*1)	[G]	[J1]; [J2]			
-VRV R32 DX- indoor units only	50 ~ 130%	39	260/325/390	16	50 ~ 130%	-
AHU only (-EKEXVA + EKEACBVE-) Pair (*5)	65/75 ~ 110%(*3)(*4)	6 (*2)(*6)	220/275/330	16	-	65/75 ~ 110%(*3)(*4)
AHU only (-EKEXVA + EKEACBVE-) Multi (*5)	65/75 ~ 110%(*3)(*4)	6 (*2)(*6)	220/275/330	16	-	65/75 ~ 110%(*3)(*4)
-VRV R32 DX- indoor unit + -AHU(EKEXVA + EKEACBVE)- Mix (*5)	50 ~ 110% (*3)	29 (*2)(*7)	220/275/330	16	50 ~ 110%	0 ~ 60%(*3)

**Notes**

- Excluding -SV- units and including -EKEXVA- kits.
- For connection with -AHU-  
-EKEXVA- kits are also considered indoor units.
- Restrictions regarding the air handling unit capacity.
- 75% ≤ Capacity ≤ 110%: default situation  
-65% ≤ Capacity < 75%: Allowed if stricter AHU volume limitations are valid.  
Refer to the databook of -EKEACBVE- 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 R32 DX- indoor units connected to one outdoor unit 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: [-EKEXVA+EKEACBVE]- boxes) can be connected to one outdoor unit (system)).  
-Y--control is possible (up to 3: [-EKEXVA+EKEACBVE]- boxes) can be connected to one outdoor unit (system)).  
-W--control is possible (up to 3: [-EKEXVA+EKEACBVE]- boxes) can be connected to one outdoor unit (system)).  
-Z'-control is possible (the allowed number of [-EKEXVA + EKEACBVE - 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.

**About ventilation applications**

- Biddle- air curtains are considered air handling units, following air handling unit limitations.  
For more information on the operation range, refer to the documentation of -Biddle- unit.
- EKEXVA + EKEACBVE- units combined with an air handling unit are considered air handling units, following air handling unit limitations.  
For more information on the operation range, refer to the documentation of -EKEXVA + EKEACBVE- unit.
- EKVDX(VAM + DX)- units are considered to be regular VRV DX indoor units.  
For more information on the operation range, refer to the documentation of -EKVDX- unit.
- Because there is no refrigerant connection with the outdoor unit (only F1/F2 communication), -VAM- units don't have connection limitations.  
However, since there is communication via F1/F2, count them as regular indoor unit when calculating the maximum allowed number of connectable indoor units (in case of usage of centralized controllers).

**Amount of units connectable to -SV- unit**

	SV1A	SV4A	SV6A	SV8A	Multi -SV- per branch	Multi -SV- when 2 branches are combined
-VRV R32 DX- indoor unit	Maximum -5- units Maximum -250- class(*8)	Maximum -20- units Maximum 400 class(*8)	Maximum -30- units Maximum -600- class(*8)	Maximum -40- units Maximum -650- class(*8)	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.
- Maximum indoor capacity class is limited by outdoor unit capacity class.