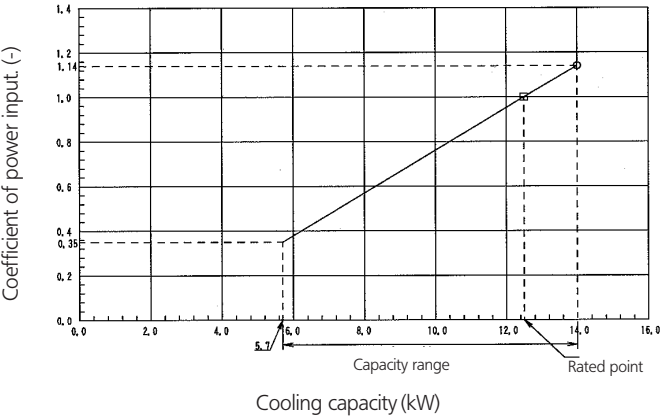
RZQS125DV1

Cooling



Cooling capacity

Indoor		Outdoor temp. (°CDB)											
EWB	EDB	25			30			35			40		
(°C)	(°C)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)	TC (kW)	SHC (kW)	CPI (-)
16.0	22	12.8	8.66	0.87	12.8	8.75	1.01	13.1	9.12	1.13	12.7	8.85	1.24
18.0	25	14.7	9.50	0.95	14.2	9.32	1.04	13.7	9.09	1.14	13.2	8.83	1.25
19.0	27	14.9	9.46	0.96	14.4	9.28	1.04	14.0	9.06	1.14	13.4	8.80	1.25
19.5	27	15.1	9.45	0.96	14.7	9.27	1.04	14.1	9.05	1.14	13.6	8.79	1.25
22.0	30	15.9	9.33	0.97	15.5	9.16	1.05	14.9	8.95	1.15	14.3	8.69	1.27
24.0	32	16.5	9.20	0.97	16.0	9.03	1.06	15.5	8.83	1.16	14.9	8.59	1.28

3TW31732-2

NOTES

1. Ratings shown are net capacities which include a deduction for indoor fan motor heat
2. On the figure the mark ○ show the max. at standard conditions.
   On the figure the mark ▭ show rated capacity and rated coefficient of power input.
   However the max. capacity is not guaranteed, except at standard condition.
3. SHC is based on each EWB and EDB
   SHC* = SHC correction for other dry bulb
   SHC* = 0.02 x AFR (m^3/min.) x (1–BF) x (DB*–EDB)
   Add SHC* to SHC.
4. Capacities are based on following conditions:
   Outdoor air : 85 % RH. however, the condition on nominal capacity is 7°CDB/6°CWB (heating)
   Corresponding refrigerant piping length : 5.0 m
   Level difference : 0 m
5. Coefficient of power input is the percentage when the rated valve is defined as 1.00.
6. The value contains less than 5% error acording to indoor unit type.
7. Air flow rate and BF are tabulated below.

(Pair)

Model	FCQH125D	FCQ125C	FBQ125C	FHQ125	FDQ125	FVQ125
AFR (BF)	34 (0.19)	27.5 (0.19)	39 (0.16)	30 (0.13)	45 (0.25)	32 (0.16)

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60Cx2	FHQ60x2
AFR (BF)	13.5x2 (0.21x2)	15x2 (0.11x2)	18x2 (0.15x2)	17x2 (0.2x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50Cx3	FHQ50x3
AFR (BF)	12.5x3 (0.21x3)	12x3 (0.16x3)	16x3 (0.16x3)	13x3 (0.1x3)

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35Cx4	FHQ35x4
AFR (BF)	10.5x4 (0.28x4)	10x4 (0.25x4)	16x4 (0.15x4)	13x4 (0.2x4)

8. Rated power input of each model is tabulated below.

(Pair)

Model	FCQH125D	FCQ125C	FBQ125C	FHQ125	FDQ125	FVQ125
Cooling	3.88	4.02	3.98	4.55	4.45	4.30

(Twin)

Model	FCQ60Cx2	FFQ60x2	FBQ60x2	FHQ60x2
Cooling	4.17	4.22	4.18	4.57

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	4.17	4.22	4.18	4.57

(Double Twin)

Model	FCQ35Cx4	FFQ35x4	FBQ35x4	FHQ35x4
Cooling	4.17	4.22	4.18	4.57

SYMBOLS

AFR:	Air flow rate	(m^3/min)
BF:	Bypass factor	
EWB:	Entering wet bulb temp.	(°CWB)
EDB:	Entering dry bulb temp.	(°CDB)
TC:	Total cooling capacity	(kW)
SHC:	Sensible heating capacity	(kW)
PI:	Power input (comp.+indoor+outdoor fan motor)	(kW)
CPI:	Coefficient of power input.	(-)

Caution:
TC and SHC are shown by kW