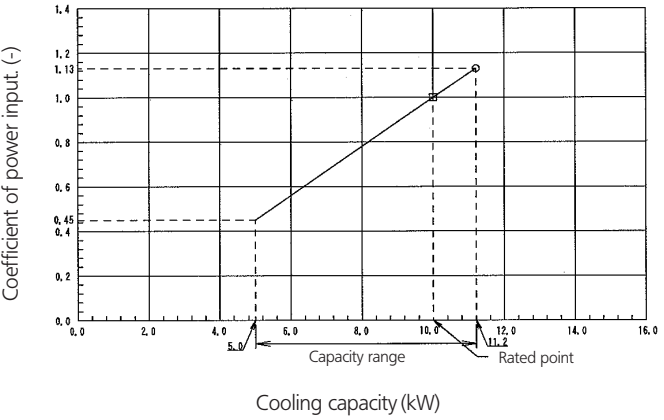
RZQS100DV1

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	10.2	6.93	0.86	10.2	7.00	1.01	10.5	7.29	1.12	10.1	7.08	1.23
18.0	25	11.8	7.59	0.94	11.3	7.45	1.03	11.0	7.27	1.13	10.5	7.06	1.24
19.0	27	12.0	7.57	0.95	11.6	7.43	1.03	11.2	7.26	1.13	10.8	7.04	1.24
19.5	27	12.1	7.56	0.95	11.8	7.41	1.03	11.3	7.25	1.13	10.9	7.03	1.24
22.0	30	12.7	7.46	0.96	12.3	7.32	1.04	11.9	7.16	1.14	11.4	6.96	1.25
24.0	32	13.2	7.36	0.96	12.8	7.22	1.05	12.4	7.06	1.15	11.9	6.87	1.27

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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	FCQH100D	FCQ100C	FBQ100C	FHQ100	FAQ100	FVQ100
AFR	34	23.5	32	24	23	28
(BF)	(0.17)	(0.16)	(0.13)	(0.14)	(0.10)	(0.19)

(Twin)

Model	FCQ50Cx2	FFQ50x2	FBQ50Cx2	FHQ50x2
AFR	12.5x2	12x2	16x2	13x2
(BF)	(0.21x2)	(0.16x2)	(0.16x2)	(0.1x2)

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50Cx3	FHQ50x3
AFR	10.5x3	10x3	16x3	13x3
(BF)	(0.28x3)	(0.25x3)	(0.15x3)	(0.2x3)

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

(Pair)

Model	FCQH100D	FCQ100C	FBQ100C	FHQ100	FAQ100	FVQ100
Cooling	2.90	3.22	3.03	3.56	3.56	3.56

(Twin)

Model	FCQ50Cx2	FFQ50x2	FBQ50x2	FHQ50x2
Cooling	3.58	3.58	3.16	3.90

(Triple)

Model	FCQ50Cx3	FFQ50x3	FBQ50x3	FHQ50x3
Cooling	3.58	3.58	3.16	3.90

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